### **Electronic Supplementary Information**

### Lewis et al. Aboveground biomass and structure of 260 African tropical forests

This document comprises:

- (1) Further details for the methods
- (2) Further references for methods
- (3) Supplementary tables
  - Table 1. PCA loading for soil texture
  - Table 2. Spearman's correlations for individual variables versus AGB, BA WMD $_{\text{BA}}$  and stem density
- (4) Supplementary figures
  - Fig. 1. Temperature and precipitation vs latitude
  - Fig. 2. Spatial autocorrelation of AGB, BA, WMD<sub>BA</sub> and stem density
  - Fig. 3. Bivariate plots of BA and environmental parameters
  - Fig. 4. Bivariate plots of  $WMD_{BA}$  and environmental parameters
  - Fig. 5. Bivariate plots of stem density and environmental parameters
  - Fig. 6. Box-plots from soil class ANOVAs on AGB, BA, WMD<sub>BA</sub> and stem density
  - Fig. 7. Box-plots from soil type ANOVAs on AGB, BA, WMD<sub>BA</sub> and stem density
  - Fig. 8. OLS and SEVM spatial residual plots for AGB.
- (5) Table of plot summary data

#### Methods further details

Data collection and processing: If multiple plots smaller than 0.2 ha occurred nearby and on the same soil type they were combined and treated as a single plot (in total forming 12 'plots' of the 260 for the analysis). Two plots were each split into two as they occurred on different soil types. For plots with two censuses we chose the second census as experience suggests that the second census is generally of greater accuracy than the first. For plots with more than two censuses we selected the penultimate census, again as this is likely to be the most error-free, as errors are often corrected in the next census. Species names in both the plot and wood density databases were standardised for synonymy using the African Flowering Plants Database (http://www.ville-ge.ch/musinfo/bd/cjb/africa/recherche.php), and conform to the Angiosperm Phylogeny Groups' third release of plant families (AGPIII), to obtain the greatest number of matches when calculating aboveground biomass (1). Voucher numbers for stems in many plots are available from the respective Pl's. In all plots tree diameter was measured at 1.3m along the stem from the ground, or

The spatial distribution of plots is in Fig. 1. and shows limited sampling in the central Congo Basin, including the northern and southern fringes, and concentrations of plots in Gabon, SE Cameroon, Ghana and the Eastern Arc mountains of Tanzania. We defined our three major regions as follows: West African forest is defined as the region west of the Dahomey gap (sometimes called Upper Guinea), East African forests being all those east of the Congo Basin forests (plots in Uganda and

away from stem deformities that occurred at 1.3m, or above buttresses.

Tanzania in our dataset) and central African forests those of the Congo-Ogoueé Basin and contiguous forest (sometimes called lower Guinea), defined identically in (2).

Climate data: Worldclim is at 30' arc-minute resolution ( $^{\sim}1\text{km}^2$ ), hence for plots in six mountainous areas Worldclim altitude was sometimes poorly matched to *in situ* measured altitude. To correct those plots in the six mountainous regions where the height difference was >40m (i.e. 0.2°C) between the Worldclim and *in situ* (GPS) measures we applied a lapse rate to the Worldclim  $T_A$  using measured height (0.005°C  $\text{m}^{-1}$ , for saturated air; (3)). Thirteen plots were corrected by <1°C and four by >1°C. We then used regressions between MAT and other temperature-related variable to correct  $T_{\text{MIN}}$ ,  $T_{\text{WARMQ}}$ ,  $T_{\text{COLQ}}$ , and  $T_{\text{CV}}$ . As rainfall is poorly correlated with temperature over such small gradients we analysed the original rainfall-related variables for all plots.

Fragmentation: One visually obvious difference between central African forests and those of west and east Africa is that central Africa is not fragmented to the same extent as the other two regions. Thus, if regional differences are detected then this may be due to the impacts of edge or fragmentation effects (4). We therefore devised a standardised method to account for this using Google Earth Pro to measure the distance from the plot centre to (i) the nearest forest edge (clearing of >1 ha), giving a distance to edge (fragment edge in km,  $F_E$ ), and (ii) the nearest edge of a clearing >1 ha in eight directions every 45° from North, from which we estimated fragment size by summing the areas of the eight triangles generated (fragment area in km²;  $F_A$ ). Imagery in Google Earth Pro differs across tropical Africa, but is often from Landsat 7, at 30m resolution. For 25 plots clouded precluded calculating  $F_E$  and  $F_A$ .

Statistical analysis: We first investigate the continuous variables, presenting Spearmans correlation coefficients, accounting for spatial autocorrelation. Essentially, if nearby plots are more similar, for example, having more similar temperature, then the true degrees of freedom is lower than the number of data points, as they are not truly independent. We calculate Spearman correlations then adjust the degrees of freedom using the Dutilleul method (5) to account for spatial autocorrelation. For variables we assume spatial autocorrelation dominates at short distances, and truncate distances used to correct for degrees of freedom at 3,000km to avoid long distance anti-correlation inflating degrees of freedom. For categorical soil variables we use ANOVA to assess their potential impacts on response variables.

We then take an information-theoretic approach, testing all possible combinations of the climate variables, the soil PC axis scores and the fragmentation variables, selecting the best model on the basis of the lowest Akaike's Information Criterion, corrected for finite sample sizes (AIC<sub>c</sub>). Following initial model runs, the low AIC<sub>c</sub> models were checked (i) for biological plausibility, and (ii) parameter redundancy, and the full suite of models was run again, minus these implausible and redundant terms. Given the wide variety of possible hypotheses relating forest AGB, BA, WMD<sub>BA</sub> and stem density to the environmental variables, and the low AIC<sub>c</sub> models the analysis produced we did not exclude any variable for violating biological plausibility. Parameter redundancy was based the parameters in the low AIC<sub>c</sub> models, their importance values, and biological meaning, for example, including  $T_{CV}$ , or a combination of  $T_A$ ,  $T_{MIN}$ , and  $T_{WARMQ}$ . If the latter were selected on importance values then removing redundancy amongst  $T_A$ ,  $T_{MIN}$ , and  $T_{WARMQ}$  depended on the sign of the relationships; opposing signed relationships in differing parts of the year are retained as this is not

redundant information, otherwise related terms were removed and the suite of models re-run again to obtain a final set of low AIC<sub>C</sub> models.

AGB, BA and stems per hectare were all approximately normally distributed. WMD<sub>BA</sub> was negatively skewed, so was reflected and square-root transformed prior to analysis, but we report WMD<sub>BA</sub> and not transformed values. From the information theoretic analyses we exclude five non-terra firme plots from the swamps of the central Congo Basin from as they represent extreme outlier forest stands and soil types, plus 25 plots for which we did not have  $F_E$  or  $F_A$  data (due to cloud cover).

#### References

- 1. Angiosperm Phylogeny Group. An update of the Angiosperm Phylogeny Group classification for the orders and families of flowering plants: APG III. Botanical Journal of the Linnean Society. 2009;161(2):105–21.
- 2. Feldpausch TR, Lloyd J, Lewis SL, Brienen RJW, Gloor M, Monteagudo Mendoza A, et al. Tree height integrated into pantropical forest biomass estimates. Biogeosciences. 2012;9(8):3381-403.
- 3. Barry R, Chorley R. Atmosphere, Weather, Climate London: Routledge; 1998.
- 4. Laurance WF. Theory meets reality: How habitat fragmentation research has transcended island biogeographic theory. Biological Conservation. 2008;141(7):1731-44.
- 5. Dutilleul P. Spatial heterogeneity and the design of ecological field experiments. Ecology. 1993;74(6):1646-58.

#### **Tables**

Table 1. Principal components analysis factor loading for the two soil axes used in the study. The first axis, PC1, explains 88.7% of the variation in the dataset and is related to sand fraction; the second axis, PC2, explains 10.0%, and is related to differentiating on clay and silt fractions.

Factor	PC1	PC2
sand % 0-30 cm	-0.99	-0.109
sand % 30-100 cm	-0.99	-0.109
silt % 0-30 cm	0.886	-0.445
silt % 30-100 cm	0.887	-0.443
clay % 0-30 cm	0.946	0.299
clay % 30-100 cm	0.944	0.306

Table 2. Spearman's rho for relationships between aboveground biomass and a range of climate, soil and fragmentation variables, with p-values given with and without adjustment of the degrees of freedom to account for spatial autocorrelation using the Dutillieul method. n=260, except have  $F_E$  or and  $F_A$  with n=235 plots, due to missing fragmentation data due to cloud cover.

## (a) Aboveground Biomass

Variable	Spearman's rho	p value	p value adj	df adj
$P_A$	0.180	0.12	0.47	57
P <sub>MIN</sub>	0.022	0.14	0.52	50
$P_{WETQ}$	-0.070	0.27	0.62	54
$P_{CV}$	-0.153	<0.001	0.01	115
$T_A$	-0.144	0.04	0.18	116
T <sub>MIN</sub>	-0.098	0.27	0.16	412
$T_{WARMQ}$	-0.212	< 0.001	0.09	55
$T_CV$	-0.308	<0.001	0.01	43
C:N	-0.023	0.10	0.21	149
ΣΒ	-0.32	<0.001	0.03	52
PC1 sand	0.013	0.30	0.63	63
PC2 clay/silt	0.285	<0.001	0.05	77
$F_E$	0.088	0.34	0.60	69
F <sub>A</sub>	0.170	0.67	0.82	68

## (b) Basal Area

Variable	Spearman's rho	p value	p value adj	df adj
$P_A$	0.177	0.37	0.65	64
P <sub>MIN</sub>	-0.065	0.84	0.92	71
$P_{WETQ}$	0.012	0.72	0.86	58
$P_{CV}$	-0.006	0.14	0.29	136
$T_A$	-0.195	<0.001	0.01	147
T <sub>MIN</sub>	-0.156	0.004	0.11	81
$T_{WARMQ}$	-0.217	<0.001	0.02	70
$T_CV$	-0.084	0.04	0.27	72
C:N	-0.135	0.01	0.06	131
ΣB	-0.246	< 0.001	0.06	56
PC1 sand	0.099	0.48	0.72	68
PC2 clay/silt	0.280	0.01	0.08	119
$F_{E}$	0.040	0.75	0.84	88
F <sub>A</sub>	0.104	0.24	0.47	89

# (c) Basal Area-weighted Wood Mass Density

Variable	Spearman's rho	p value	p value adj	df adj
P <sub>A</sub>	0.165	0.002	0.22	43

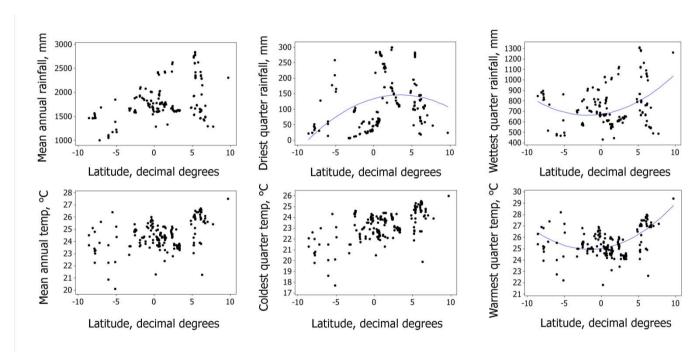
P <sub>MIN</sub>	0.188	<0.001	0.13	49
$P_{WETQ}$	-0.030	0.50	0.76	53
P <sub>CV</sub>	-0.203	0.001	0.20	41
$T_A$	0.159	0.007	0.21	57
$T_{MIN}$	0.168	0.007	0.25	49
$T_{WARMQ}$	0.111	0.17	0.51	60
$T_{CV}$	-0.329	< 0.001	0.07	43
C:N	-0.080	0.002	0.06	96
ΣΒ	0.030	0.08	0.14	180
PC1 sand	-0.159	< 0.001	0.15	47
PC2 clay/silt	0.073	<0.001	0.01	107
$F_{E}$	0.010	0.61	0.75	92
F <sub>A</sub>	0.053	0.05	0.23	86

# (d) Stem density

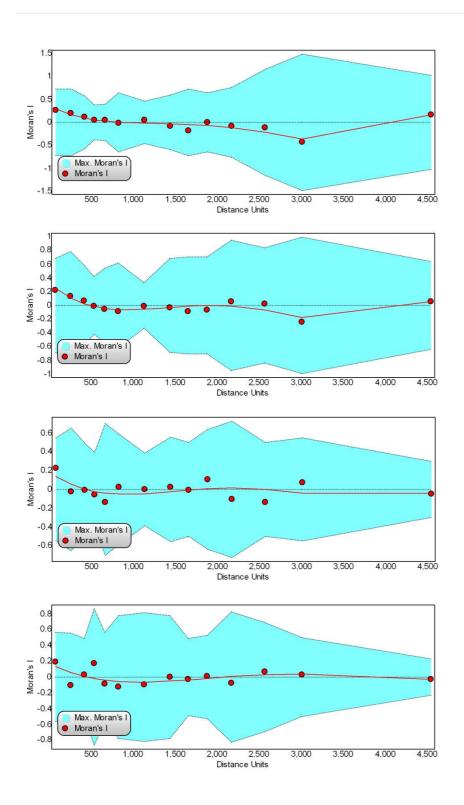
Variable	Spearman's rho	p value	p value adj	df adj
P <sub>A</sub>	0.170	0.02	0.32	52
$P_{MIN}$	0.031	0.93	0.97	69
$P_{WETQ}$	0.090	0.03	0.34	49
$P_{CV}$	0.053	0.92	0.96	68
$T_A$	-0.042	0.23	0.32	171
T <sub>MIN</sub>	0.032	0.84	0.91	85
$T_{WARMQ}$	-0.046	0.39	0.48	172
$T_CV$	0.039	0.79	0.86	119
C:N	-0.063	0.97	0.98	124
ΣB	-0.078	0.43	0.60	115
PC1 sand	0.013	0.43	0.59	120
PC2 clay/silt	0.064	0.44	0.57	142
$F_{E}$	-0.040	0.13	0.27	119
$F_A$	-0.148	0.05	0.24	86

### **FIGURES**

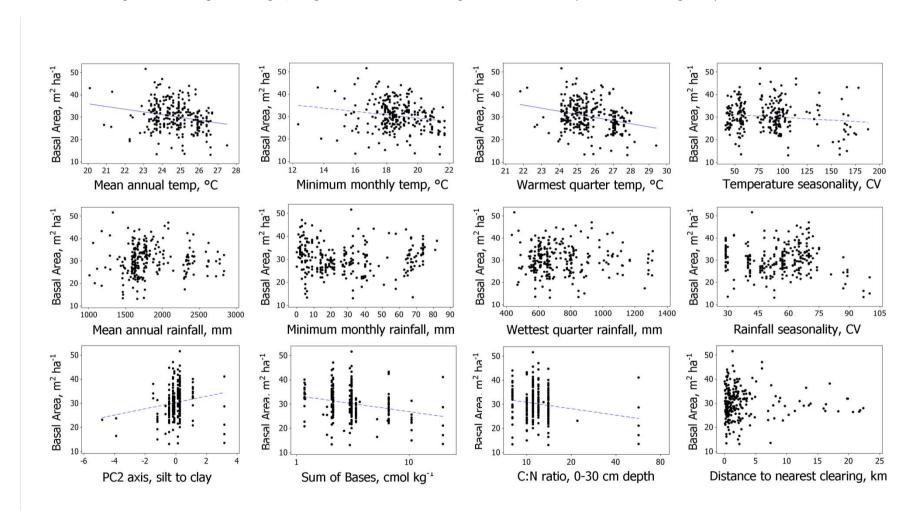
**Fig. 1** Precipitation (top) and temperature (bottom) against latitude, mean annual ( $P_A$ ,  $T_A$ ; left), driest/coolest quarter ( $P_{DRYQ}$ ;  $T_{COLDQ}$ ; centre), and wettest/warmest quarter ( $P_{WETQ}$ ;  $T_{WARMQ}$ ; right). Significant quadratic curves are,  $P_{DRYQ} = 141 - 0.803 \times Latitude^2$  ( $r^2 = 0.24$ , p = 0.006);  $P_{WETQ} = 683 + 3.11 \times Latitude^2$  ( $r^2 = 0.09$ , p < 0.001);  $T_{WARMQ}$ ; 25.1 + 0.0329 × Latitude<sup>2</sup> ( $r^2 = 0.07$ , p < 0.001).



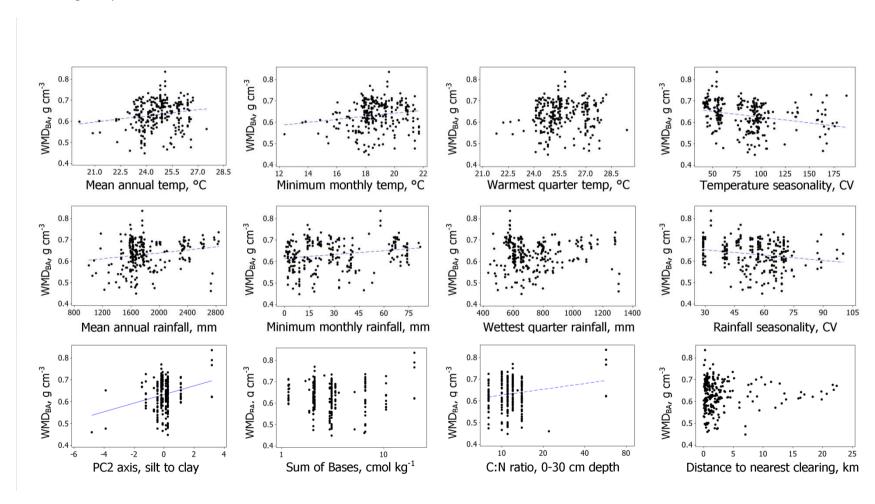
**Fig. 2.** Spatial autocorrelation of (a) AGB, (b) BA, (c) WMD\_BA, (d) stem density, using Moran's I statistic.



**Fig. 3.** Bivariate plots of BA and temperature (top; mean annual temperature, temperature coldest month, temperature in warmest quarter, temperature of coefficient variation, left to right), rainfall (middle; mean annual rainfall, rainfall in driest month, rainfall wettest quarter, rainfall coefficient of variation, left to right) and soil and fragmentation (bottom; PCA axis two, silt to clay texture, sum of bases in topsoil, carbon to nitrogen ratio in topsoil, distance to nearest forest edge and clearing, left to right). Regression lines indicate significant relationship after accounting for spatial autocorrelation.



**Fig. 4.** Bivariate plots of Basal Area weighted Wood Mass Density (WMD<sub>BA</sub>) and temperature (top; mean annual temperature, temperature coldest month, temperature in warmest quarter, temperature of coefficient variation, left to right), rainfall (middle; mean annual rainfall, rainfall in driest month, rainfall wettest quarter, rainfall coefficient of variation, left to right) and soil and fragmentation (bottom; PCA axis two, silt to clay texture, sum of bases in topsoil, carbon to nitrogen ratio in topsoil, distance to nearest forest edge and clearing, left to right). Regression lines indicate significant relationship after accounting for spatial autocorrelation.



**Fig. 5.** Bivariate plots of stem density and temperature (top; mean annual temperature, temperature coldest month, temperature in warmest quarter, temperature of coefficient variation, left to right), rainfall (middle; mean annual rainfall, rainfall in driest month, rainfall wettest quarter, rainfall coefficient of variation, left to right) and soil and fragmentation (bottom; PCA axis two, silt to clay texture, sum of bases in topsoil, carbon to nitrogen ratio in topsoil, distance to nearest forest edge and clearing, left to right). Regression lines indicate significant relationship after accounting for spatial autocorrelation.

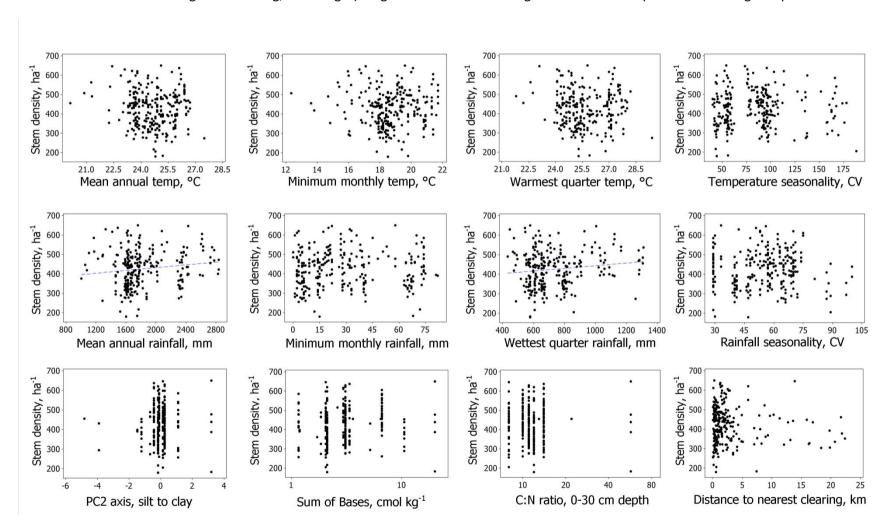


Fig. 6. Box-plots of aboveground biomass (top left), basal area (top right), basal area weighted wood mass density (WMD<sub>BA</sub>; bottom right) and stem density (bottom right) grouped by soil class, for those with ≥5 plots per group. Bars that do not share a letter are significantly different using the Tukey Honest Significant Difference test.

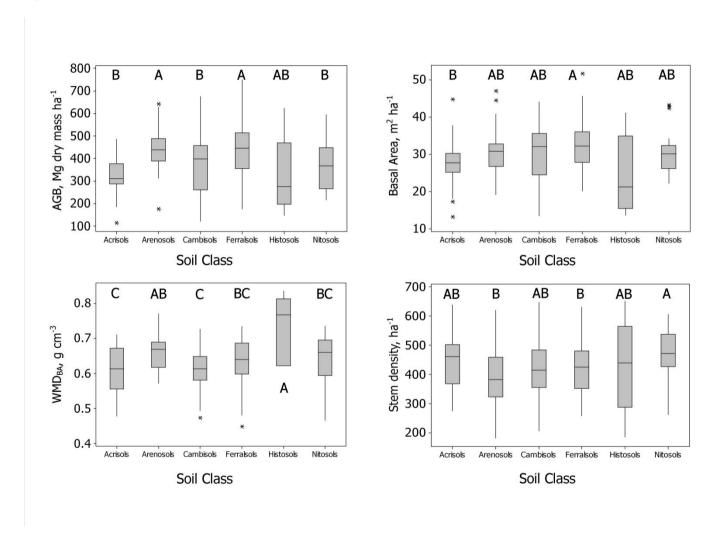


Fig. 7. Box-plots of aboveground biomass (top left), basal area (top right), basal area weighted wood mass density (WMD<sub>BA</sub>; bottom right) and stem density (bottom right) grouped by soil type, for those with ≥5 plots per group. Bars that do not share a letter are significantly different using the Tukey Honest Significant Difference test.

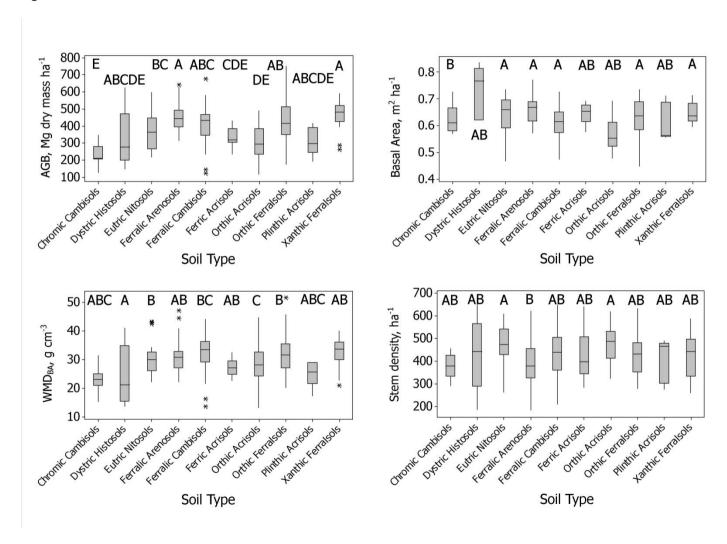
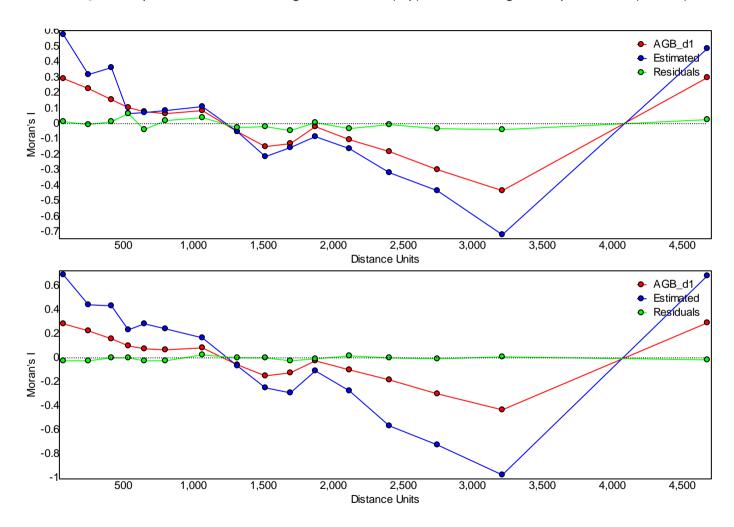


Fig. 8. OLS best AIC<sub>C</sub> model spatial residuals for aboveground biomass (top) and after using SEVM spatial filters (bottom).



**Data Table.** Plot data used in the analysis. PI and team refer to the initials of the data owners for the plot census used. Each plot presented here represents a considerable investment of time and resources. If you use this data please inform the corresponding author, or PI's and team beforehand.

PlotCode	Countryname	PlotArea	Lat	Long	Alt	P_A	T_A	Edge_km	SoilType	AGB	ВА	Trees_ha	WMD_BA	PI and team
									Orthic					
ASN-02	GHANA	0.60	6.56	-2.22	242	1416	25.7	1.4	Acrisols	285.6	31.87	617	0.54	KA-B, SLL
									Orthic					
ASN-04	GHANA	0.92	6.48	-2.17	221	1434	25.6	1.9	Acrisols	239.5	27.84	449	0.48	KA-B, SLL
									Orthic					KA-B, SF, TRB, EF,
BBR-14	GHANA	0.88	6.71	-1.29	245	1477	25.9	0.4	Acrisols	282.6	27.17	498	0.56	TF, SLL
									Ferric					KA-B, SF, TRB, EF,
BBR-16	GHANA	0.92	6.70	-1.29	218	1489	26.1	1.3	Acrisols	263.5	26.77	638	0.58	TF, SLL
									Orthic					KA-B, SF, TRB, EF,
BBR-17	GHANA	0.96	6.69	-1.28	226	1492	26.1	2.6	Acrisols	312.0	30.83	496	0.53	TF, SLL
									Eutric					TRF, GD, OLP, KA-
BFI-04	GHANA	0.50	7.71	-1.70	350	1287	25.4	0.2	Nitosols	364.0	32.34	262	0.50	В
									Orthic					
BIL-01	GABON	2.50	0.30	11.92	482	1599	24.4	2.2	Ferralsols	418.1	31.73	321	0.60	J-LD
									Orthic					
BIL-02	GABON	2.50	0.47	11.93	523	1606	24.1	18.4	Ferralsols	360.2	26.68	305	0.62	J-LD
									Orthic					
BIL-03	GABON	2.50	0.57	12.17	498	1596	24.2	16.4	Ferralsols	414.6	29.60	328	0.64	J-LD
									Orthic					
BIL-04	GABON	2.50	0.67	11.92	513	1604	24.1	20.7	Ferralsols	354.9	26.39	336	0.64	J-LD
									Orthic					
BIS-01	CAMEROON	1.00	3.30	12.48	643	1619	23.8	0.7	Ferralsols	432.5	28.42	349	0.69	M-NK, BS, LZ, SLL
									Orthic					
BIS-02	CAMEROON	1.00	3.29	12.48	646	1621	23.8	0.3	Ferralsols	343.7	28.24	508	0.61	M-NK, BS, LZ, SLL
									Orthic					
BIS-03	CAMEROON	1.00	3.22	12.49	666	1627	23.7	0.2	Ferralsols	446.5	28.54	339	0.69	M-NK, BS, LZ, SLL
210.04		4.00	0.04	10.50	664	4606	20 -		Orthic	240.5		4.45	0.65	
BIS-04	CAMEROON	1.00	3.21	12.50	661	1628	23.7	1.0	Ferralsols	349.8	27.56	449	0.62	M-NK, BS, LZ, SLL

									Orthic					
BIS-05	CAMEROON	1.00	3.31	12.49	648	1617	23.8	0.6	Ferralsols	607.4	35.15	332	0.72	M-NK, BS, LZ, SLL
									Orthic					
BIS-06	CAMEROON	1.00	3.31	12.49	648	1617	23.8	0.3	Ferralsols	408.4	29.76	455	0.66	M-NK, BS, LZ, SLL
	CONGO,													
	People's								Dystric					
BOK-01	Republic of	1.00	1.49	17.44	335	1759	25.1	0.1	Histosols	274.6	21.17	478	0.77	SLL, BS, SKB
	CONGO,													
	People's								Dystric					
BOK-02	Republic of	0.40	1.49	17.44	335	1759	25.1	0.3	Histosols	248.4	17.30	440	0.79	SLL, BS, SKB
	CONGO,													
	People's								Dystric					
BOK-03	Republic of	0.40	1.48	17.43	333	1759	25.1	0.3	Histosols	624.0	41.07	650	0.84	SLL, BS, SKB
									Ferric					KA-B, SF, TRB, EF,
BOR-05	GHANA	1.00	5.35	-1.83	99	1660	25.9	1.3	Acrisols	232.6	22.58	399	0.58	TF, SLL
									Orthic					KA-B, SF, TRB, EF,
BOR-06	GHANA	1.00	5.35	-1.84	98	1660	25.9	2.3	Acrisols	225.4	21.85	485	0.61	TF, SLL
DUD 47	LICANDA	4.06	4 72	24.50	4063	4226	22.4	4.2	Orthic	602.0	F4 66	624	0.50	5.5
BUD-17	UGANDA	1.86	1.72	31.50	1062	1326	23.1	1.3	Ferralsols	603.9	51.66	631	0.59	DS
CANA 04	CANAEDOON	1.00	2.26	0.03	63	2500	25.2	0.6	Plinthic	<b>5444</b>	24.45	205	0.60	TC CLL DC CKD
CAM-01	CAMEROON	1.00	2.36	9.93	62	2588	25.2	0.6	Ferralsols Plinthic	514.1	34.15	395	0.69	TS, SLL, BS, SKB
CAM-02	CAMEROON	1.00	2.31	9.92	56	2434	25.0	0.8	Ferralsols	483.3	32.11	399	0.67	TS, SLL, BS, SKB
CAIVI-UZ	CAIVIEROON	1.00	2.51	9.92	30	2454	25.0	0.8	Plinthic	403.3	32.11	399	0.07	13, 3LL, D3, 3ND
CAM-03	CAMEROON	1.00	2.42	9.90	84	2625	25.1	0.2	Ferralsols	578.6	38.05	392	0.67	TS, SLL, BS, SKB
CAIVI-03	CAMEROON	1.00	2.42	5.50	04	2023	25.1	0.2	Orthic	370.0	30.03	332	0.07	13, 311, 03, 310
CAP-09	GHANA	1.00	4.85	-2.04	120	1686	25.4	1.5	Acrisols	405.7	33.38	489	0.67	KA-B, SLL
C/ 11 03	Ginara	1.00	4.03	2.04	120	1000	23.4	1.5	Orthic	403.7	33.30	403	0.07	10 ( 5), 522
CAP-10	GHANA	1.00	4.80	-2.05	78	1678	25.7	1.1	Acrisols	199.2	21.99	439	0.56	KA-B, SLL
5 20	2	2.00	-			20.0			Orthic				2.50	
CEB-03	GABON	1.00	0.15	13.05	505	1674	23.9	7.0	Ferralsols	205.4	23.13	406	0.49	J-LD
			-						Orthic					
CEB-04	GABON	1.00	0.15	13.05	505	1674	23.9	7.0	Ferralsols	244.1	26.89	323	0.45	J-LD
									Ferric					
CVL-01	LIBERIA	1.00	6.19	-8.18	264	1958	26.4	0.7	Acrisols	311.5	26.54	510	0.68	HW, SLL

	1		1						1		1			1
CVL-08	LIBERIA	1.00	6.19	-8.18	264	1958	26.4	0.5	Ferric Acrisols	295.7	26.03	549	0.68	HW, SLL
CVL-08	LIBLINIA	1.00	0.13	-0.10	204	1936	20.4	0.5	Ferric	233.7	20.03	349	0.08	TIVV, JLL
CVL-10	LIBERIA	1.00	6.19	-8.18	264	1958	26.4	0.4	Acrisols	381.2	29.50	527	0.68	HW, SLL
									Ferric					,
CVL-11	LIBERIA	1.00	6.19	-8.18	264	1958	26.4	0.6	Acrisols	357.2	28.35	504	0.69	HW, SLL
									Dystric					
DAD-31	GHANA	0.56	5.97	-3.03	147	1658	26.6	2.4	Gleysols	146.7	16.51	295	0.48	KA-B, SLL
									Orthic					
DAD-32	GHANA	0.44	5.97	-3.03	147	1658	26.6	2.4	Acrisols	114.2	13.23	320	0.51	KA-B, SLL
									Dystric					
DAD-41	GHANA	0.28	5.99	-3.03	157	1648	26.5	2.8	Gleysols	311.5	23.83	432	0.65	KA-B, SLL
									Orthic					
DAD-42	GHANA	0.72	5.99	-3.03	157	1648	26.5	2.8	Acrisols	354.9	28.02	467	0.62	KA-B, SLL
									Orthic					
DJA-01	CAMEROON	2.25	3.33	12.87	694	1631	23.3	NA	Ferralsols	413.8	33.07	564	0.62	BS, SLL
									Orthic					
DJA-02	CAMEROON	2.50	3.32	12.87	681	1630	23.4	NA	Ferralsols	275.1	21.76	406	0.63	BS, SLL
									Orthic					
DJA-03	CAMEROON	2.50	3.30	12.87	680	1630	23.4	NA	Ferralsols	460.1	32.42	498	0.67	BS, SLL
									Orthic					
DJA-04	CAMEROON	2.50	3.33	12.87	694	1631	23.3	NA	Ferralsols	396.9	28.20	406	0.66	BS, SLL
									Orthic					
DJA-05	CAMEROON	1.00	3.15	12.57	658	1628	23.7	NA	Ferralsols	376.1	30.33	477	0.60	BS, SLL
									Orthic					
DJA-07	CAMEROON	0.50	2.89	13.34	573	1617	23.7	2.7	Ferralsols	344.5	28.39	598	0.64	BS, SLL
									Orthic					
DJA-09	CAMEROON	1.00	3.08	13.58	631	1631	23.4	1.4	Ferralsols	496.5	35.96	569	0.67	BS, SLL
									Orthic					
DJA-17	CAMEROON	0.20	2.88	13.34	573	1617	23.7	1.6	Ferralsols	749.1	43.40	370	0.71	BS, SLL
									Orthic					
DJK-01	CAMEROON	1.00	3.33	12.72	668	1623	23.6	NA	Ferralsols	536.2	31.63	316	0.71	SLL, BS, KS-HP, HT
									Orthic					
DJK-02	CAMEROON	1.00	3.33	12.72	660	1622	23.6	NA	Ferralsols	357.4	26.81	398	0.64	SLL, BS, KS-HP, HT
									Orthic					
DJK-03	CAMEROON	1.00	3.36	12.72	647	1621	23.7	NA	Ferralsols	540.7	32.35	346	0.71	SLL, BS, KS-HP, HT

									Orthic					
DJK-04	CAMEROON	1.00	3.36	12.73	639	1619	23.7	NA	Ferralsols	289.5	24.80	484	0.60	SLL, BS, KS-HP, HT
									Orthic					, , ,
DJK-05	CAMEROON	1.00	3.32	12.76	651	1623	23.6	NA	Ferralsols	551.4	33.81	366	0.71	SLL, BS, KS-HP, HT
									Orthic					
DJK-06	CAMEROON	1.00	3.33	12.76	663	1623	23.5	NA	Ferralsols	297.6	23.46	430	0.63	SLL, BS, KS-HP, HT
									Orthic					
DJL-01	CAMEROON	1.00	3.12	13.58	622	1631	23.4	3.2	Ferralsols	578.0	35.17	352	0.70	BS, M-NK, SLL, LZ
									Orthic					
DJL-02	CAMEROON	1.00	3.12	13.59	616	1631	23.4	2.5	Ferralsols	405.4	29.24	443	0.65	BS, M-NK, SLL, LZ
									Orthic					
DJL-03	CAMEROON	1.00	3.04	13.62	583	1621	23.6	2.4	Ferralsols	643.7	40.09	432	0.71	BS, M-NK, SLL, LZ
									Orthic					
DJL-04	CAMEROON	1.00	3.05	13.62	599	1623	23.5	1.6	Ferralsols	358.8	28.42	622	0.67	BS, M-NK, SLL, LZ
5.11.05		4.00	2.00	40.50	600	4604	20.5	4.6	Orthic	<b>- 40</b> 0	22 72	222	0.70	DG 14 111/ GL 17
DJL-05	CAMEROON	1.00	3.03	13.58	603	1624	23.5	1.6	Ferralsols	542.9	32.70	323	0.70	BS, M-NK, SLL, LZ
D.II. 0.6	CANAEROON	4.00	2.02	12.61	500	4620	22.6	4.0	Orthic	205.2	24 77	505	0.63	DC NANW CILLIZ
DJL-06	CAMEROON	1.00	3.03	13.61	580	1620	23.6	4.0	Ferralsols	285.3	24.77	505	0.62	BS, M-NK, SLL, LZ
DNG-01	CAMEROON	1.00	5.21	13.44	696	1530	23.9	NA	Orthic Acrisols	486.6	44.73	559	0.52	DC VD MC 17
DNG-01	CAIVIEROUN	1.00	5.21	15.44	090	1550	23.9	IVA	Orthic	460.0	44.73	339	0.52	BS, VD, MS, LZ
DNG-02	CAMEROON	1.00	5.21	13.45	715	1535	23.7	NA	Acrisols	405.5	37.73	535	0.51	BS, VD, MS, LZ
DING-02	CAMILITOON	1.00	5.21	13.43	713	1333	23.7	INA	Ferralic	403.3	37.73	333	0.51	D3, VD, IVI3, LZ
DOU-01	GABON	1.00	2.36	10.35	213	1898	24.9	3.4	Cambisols	557.6	35.52	413	0.69	JR
200 01	GABON	1.00	2.50	10.55	213	1030	24.5	3.7	Orthic	337.0	33.32	713	0.03	KA-B, SF, TRB, EF,
DRA-04	GHANA	1.00	5.16	-2.38	80	1921	26.0	1.1	Ferralsols	256.0	25.16	490	0.55	TF, SLL
									Orthic					KA-B, SF, TRB, EF,
DRA-05	GHANA	1.00	5.21	-2.44	87	1928	26.1	1.1	Ferralsols	277.2	28.01	457	0.56	TF, SLL
	CENTRAL													
	AFRICAN								Orthic					
DZS-03	REPUBLIC	1.00	2.89	16.19	391	1602	25.0	0.4	Ferralsols	322.6	29.72	316	0.48	TS
	CONGO,													
	Democratic								Orthic					
EDO-01	Republic of	10.00	1.56	28.52	796	1750	24.3	11.3	Ferralsols	394.1	26.90	456	0.69	J-RM, SCT, TH, CE
	CONGO,								Orthic					
EDO-02	Democratic	10.00	1.56	28.52	796	1750	24.3	10.3	Ferralsols	357.7	25.27	474	0.68	J-RM, SCT, TH, CE

	Republic of													
EJA-04	CAMEROON	1.00	5.75	8.99	148	2626	26.4	0.2	Eutric Nitosols	397.0	30.17	542	0.70	TS, SLL, BS
EJA-05	CAMEROON	1.00	5.75	8.99	148	2626	26.4	0.1	Eutric Nitosols	381.1	29.74	521	0.68	TS, SLL, BS
EKO-41	GABON	1.00	0.38	13.10	533	1661	23.7	0.3	Orthic Ferralsols	597.1	37.26	380	0.70	JR, SLL
FUR-07	GHANA	1.00	5.56	-2.39	114	1737	26.4	1.6	Orthic Ferralsols	195.3	22.45	550	0.58	KA-B, SF, TRB, SLL
FUR-08	GHANA	0.60	5.58	-2.39	116	1728	26.4	0.7	Orthic Ferralsols	196.4	21.76	522	0.58	KA-B, SF, TRB, SLL
GBO-01			5.39		153		25.9		Plinthic					
	LIBERIA	1.00		-7.62 7.62		2350		0.5	Acrisols Orthic	415.6	28.86	327	0.71	HW, SLL
GBO-02	LIBERIA	1.00	5.40	-7.62	153	2350	25.9	0.4	Acrisols Plinthic	344.8	26.61	371	0.69	HW, SLL
GBO-03	LIBERIA	1.00	5.39	-7.62	167	2353	25.8	0.3	Acrisols Ferric	365.8	28.93	489	0.66	HW, SLL
GBO-04	LIBERIA	1.00	5.40	-7.61	153	2329	25.9	1.0	Acrisols Orthic	427.0	31.86	370	0.68	HW, SLL
GBO-08	LIBERIA	1.00	5.39	-7.60	167	2353	25.8	1.0	Acrisols Ferric	406.5	30.28	360	0.67	HW, SLL
GBO-10	LIBERIA	1.00	5.40	-7.59	165	2324	25.8	1.2	Acrisols Ferric	407.4	30.54	323	0.62	HW, SLL
GBO-11	LIBERIA	0.68	5.39	-7.59	169	2315	25.8	0.8	Acrisols Ferric	292.4	23.07	328	0.67	HW, SLL
GBO-13	LIBERIA	1.00	5.41	-7.63	153	2338	25.9	0.5	Acrisols Ferric	417.2	28.52	282	0.66	HW, SLL
GBO-14	LIBERIA	1.00	5.41	-7.62	150	2338	25.9	0.2	Acrisols Ferric	389.3	32.38	395	0.61	HW, SLL
GBO-15	LIBERIA	1.00	5.41	-7.61	153	2329	25.9	0.6	Acrisols Ferric	306.6	25.01	390	0.66	HW, SLL
GBO-16	LIBERIA	1.00	5.40	-7.61	154	2319	25.9	1.0	Acrisols Ferric	364.6	30.08	459	0.65	HW, SLL
GBO-18	LIBERIA	1.00	5.41	-7.60	154	2319	25.9	4.9	Acrisols	309.0	24.25	338	0.65	HW, SLL

									Ferric					
GBO-19	LIBERIA	0.79	5.41	-7.60	152	2299	25.9	0.3	Acrisols	314.9	25.59	366	0.64	HW, SLL
GDO 13	LIBERIA	0.73	3.41	7.00	132	2233	23.3	0.5	Ferric	314.3	25.55	300	0.04	TIVV, SEL
GBO-20	LIBERIA	1.00	5.41	-7.59	152	2299	25.9	0.5	Acrisols	317.4	22.73	344	0.68	HW, SLL
					_				Ferralic					, -
HAB-02	GABON	1.00	0.63	10.97	442	1968	23.9	3.5	Cambisols	387.5	33.99	438	0.55	EC
									Ferralic					
HAB-03	GABON	1.00	0.70	10.90	441	2017	23.8	0.6	Cambisols	467.5	34.57	362	0.61	EC
									Ferralic					
HAB-04	GABON	1.00	0.63	11.00	468	1949	23.7	0.4	Cambisols	431.5	36.17	443	0.58	EC
									Ferralic					
HAB-05	GABON	1.00	0.64	11.03	470	1934	23.7	2.2	Cambisols	231.7	24.22	406	0.47	EC
									Ferralic					
HAB-06	GABON	1.00	0.54	11.14	521	1872	23.6	3.5	Cambisols	343.2	29.46	272	0.55	EC
	0.000	4.00	0.70	40.00	465	2027	20.6	4.0	Orthic		45.60	455	0.50	
HAB-07	GABON	1.00	0.73	10.88	465	2027	23.6	1.3	Ferralsols	576.2	45.68	457	0.56	EC
	CONGO,								0.46:-					
ITU-01	Democratic Republic of	0.25	1 25	28.45	739	1750	24.5	г 1	Orthic	612.7	39.13	226	0.71	тн
110-01	CONGO,	0.25	1.35	28.45	739	1/50	24.5	5.1	Ferralsols	612.7	39.13	336	0.71	ΙΠ
	Democratic								Orthic					
ITU-02	Republic of	0.44	1.35	28.53	790	1745	24.3	1.6	Ferralsols	651.6	39.59	361	0.72	тн
110-02	CONGO,	0.44	1.55	20.55	750	1743	24.5	1.0	1 011 013	031.0	33.33	301	0.72	111
	Democratic								Orthic					
ITU-03	Republic of	0.50	1.33	28.60	780	1724	24.4	4.1	Ferralsols	576.5	33.91	310	0.71	тн
	CONGO,													
	Democratic								Orthic					
ITU-04	Republic of	0.50	1.45	28.42	808	1793	24.2	3.5	Ferralsols	463.3	30.95	458	0.70	TH
	CONGO,													
	Democratic								Orthic					
ITU-05	Republic of	0.50	1.42	28.50	832	1779	24.1	1.7	Ferralsols	412.0	27.10	462	0.73	TH
	CONGO,													
	Democratic								Orthic					
ITU-06	Republic of	0.50	1.43	28.58	780	1743	24.4	0.6	Ferralsols	503.9	34.03	504	0.69	TH
									Orthic					
KDE-01	GHANA	1.00	6.15	-0.92	192	1633	25.9	0.2	Acrisols	294.3	27.18	525	0.61	MDS

				1					1			1		1
KDE-02	GHANA	1.00	6.15	-0.92	192	1633	25.9	0.2	Ferric Acrisols	311.4	27.49	497	0.59	MDS
KDL-02	CONGO,	1.00	0.13	-0.92	192	1033	23.9	0.2	ACTISOIS	311.4	27.43	497	0.39	IVIDS
	People's								Humic					
KOL-01	Republic of	1.00	1.20	17.88	341	1747	25.2	2.4	Ferralsols	348.5	25.70	361	0.70	SLL, BS, SKB
KOL-01	CONGO,	1.00	1.20	17.00	341	1/4/	23.2	2.4	remaisus	346.3	23.70	301	0.70	3LL, B3, 3KB
	People's								Dystric					
KOL-02	Republic of	0.60	1.36	17.84	341	1747	25.2	7.4	Histosols	147.3	13.59	185	0.62	SLL, BS, SKB
KOL-02	CONGO,	0.00	1.50	17.04	341	1/4/	23.2	7.4	1113103013	147.3	13.33	103	0.02	3LL, B3, 3KB
	People's								Dystric					
KOL-03	Republic of	0.60	1.19	17.85	341	1747	25.2	1.4	Histosols	316.7	28.73	388	0.62	SLL, BS, SKB
KOL-03	CONGO,	0.00	1.19	17.85	341	1/4/	23.2	1.4	1113103013	310.7	20.73	388	0.02	3LL, D3, 3KD
	People's								Xanthic					
KOL-04	Republic of	1.00	1.23	17.91	339	1750	25.2	0.6	Ferralsols	589.4	36.03	297	0.71	SLL, BS, SKB
KOL 04	CONGO,	1.00	1.23	17.51	333	1730	23.2	0.0	1011413013	303.4	30.03	237	0.71	3LL, B3, 3KB
	Democratic								Xanthic					
KSN-01c	Republic of	1.00	0.30	25.31	469	1778	24.9	13.6	Ferralsols	393.3	29.19	443	0.64	JV
1011 010	CONGO,	1.00	0.50	23.31	103	1770	2113	13.0	1 011 013	333.3	23.13	113	0.01	3.0
	Democratic								Xanthic					
KSN-02c	Republic of	1.00	0.31	25.31	469	1778	24.9	2.0	Ferralsols	448.0	32.51	586	0.63	JV
	CONGO,													
	Democratic								Xanthic					
KSN-03c	Republic of	1.00	0.30	25.31	469	1778	24.9	2.0	Ferralsols	551.9	40.10	542	0.60	JV
	CONGO,													
	Democratic								Xanthic					
KSN-04c	Republic of	1.00	0.30	25.31	469	1778	24.9	1.9	Ferralsols	497.8	34.88	438	0.61	JV
	CONGO,													
	Democratic								Xanthic					
KSN-05c	Republic of	1.00	0.30	25.31	469	1778	24.9	1.9	Ferralsols	494.9	32.65	412	0.68	JV
	CONGO,													
	Democratic								Xanthic					
KSN-06c	Republic of	1.00	0.30	25.31	469	1778	24.9	1.8	Ferralsols	484.9	34.88	444	0.65	JV
	CONGO,			1										
	Democratic								Xanthic					
KSN-07c	Republic of	1.00	0.31	25.31	469	1778	24.9	1.8	Ferralsols	419.0	32.24	479	0.63	JV

	CONGO,													
	Democratic								Xanthic					
KSN-08c	Republic of	1.00	0.31	25.31	469	1778	24.9	1.8	Ferralsols	479.7	36.06	481	0.60	JV
	CONGO,													
	Democratic								Xanthic					
KSN-09c	Republic of	1.00	0.29	25.31	462	1776	24.9	1.9	Ferralsols	526.6	36.84	536	0.69	JV
	CONGO,													
	Democratic								Xanthic					
KSN-10c	Republic of	1.00	0.29	25.31	471	1780	24.9	2.0	Ferralsols	574.1	38.88	418	0.68	JV
	CONGO,													
	Democratic								Xanthic					
KSN-11c	Republic of	1.00	0.29	25.31	471	1780	24.9	2.1	Ferralsols	451.9	32.97	420	0.63	JV
	CONGO,													
	Democratic					.=			Xanthic					
KSN-12c	Republic of	1.00	0.29	25.31	471	1780	24.9	2.2	Ferralsols	476.7	34.15	500	0.67	JV
	CONGO,								0.11.					
1 EN 04	Democratic	40.00	4 22	20.65	074	1701	22.0	2.4	Orthic	505.3	24.70	2.42	0.60	LDM CCT TH CE
LEN-01	Republic of	10.00	1.32	28.65	874	1701	23.9	3.1	Ferralsols	505.2	31.79	342	0.69	J-RM, SCT, TH, CE
	CONGO, Democratic								Orthic					
LEN-02	Republic of	10.00	1.31	28.65	796	1750	24.3	4.0	Ferralsols	539.5	34.28	377	0.69	J-RM, SCT, TH, CE
LLIN-UZ	Republic of	10.00	1.51	28.03	730	1730	24.3	4.0	Orthic	339.3	34.20	311	0.03	J-MVI, JCI, III, CL
LKM-01	GABON	1.00	1.89	13.22	524	1911	23.9	2.0	Ferralsols	333.3	33.31	474	0.49	EC
ZKIVI OZ	C/ LBC/ L	1.00	-	13.22	32.	1311	25.5	2.0	Orthic	333.3	33.31	1, 1	0.13	20
LKM-02	GABON	1.00	1.90	13.21	531	1913	23.9	1.6	Ferralsols	407.8	37.19	530	0.55	EC
			-						Orthic					-
LKM-03	GABON	1.00	1.90	13.21	574	1935	23.6	1.6	Ferralsols	448.6	38.57	440	0.55	EC
			-						Ferralic					
LKM-05	GABON	1.00	1.59	13.76	447	1882	24.3	0.3	Arenosols	378.8	30.79	463	0.61	EC
			-						Ferralic					
LKM-06	GABON	1.00	1.40	13.73	461	1864	24.3	0.4	Cambisols	483.1	39.66	468	0.57	EC
			-						Ferralic					
LKM-07	GABON	1.00	1.31	13.72	443	1844	24.4	2.1	Cambisols	461.9	39.08	446	0.57	EC
			-						Ferralic					
LMA-99	GABON	0.40	0.19	11.58	287	1684	25.5	0.4	Cambisols	456.2	44.11	395	0.49	LJTW, KJ, MC, SLL

					-				1					
1145.00	CARON	0.40	-	44.60	202	4600	25.5	0.6	Ferralic	F70.0	27.66	200	0.64	LITAL KI NAC CII
LME-99	GABON	0.40	0.21	11.60	292	1683	25.5	0.6	Cambisols	579.8	37.66	290	0.64	LJTW, KJ, MC, SLL
1140.00	CARON	0.40	0.22	11 (1	204	1602	25.4	1.0	Ferralic	200 C	20.74	402	0.53	LITAN KI NAC CII
LMO-99	GABON	0.40	0.22	11.61	294	1683	25.4	1.6	Cambisols	380.6	39.74	483	0.52	LJTW, KJ, MC, SLL
LMP-01	GABON	2.50	0.25	11.60	350	1707	25.1	3.1	Ferralic Cambisols	437.8	33.81	416	0.62	LITIM KL MAC SLI
LIVIP-U1	GABON	2.50	0.23	11.60	330	1/0/	25.1	5.1	Ferralic	437.0	33.01	410	0.02	LJTW, KJ, MC, SLL
LOP-01	GABON	1.00	0.17	11.42	317	1767	25.2	0.6	Cambisols	497.6	36.36	355	0.61	LJTW, KJ, MC, SLL
LOF-01	GABON	1.00	0.17	11.42	317	1707	23.2	0.0	Ferralic	437.0	30.30	333	0.01	LJ I VV, KJ, IVIC, JLL
LOP-25	GABON	2.50	0.43	11.43	368	1825	24.9	8.2	Cambisols	439.0	33.01	327	0.60	LJTW, KJ, MC, SLL
201 23	GABOIN	2.50	-	11.73	300	1023	24.5	0.2	Orthic	433.0	33.01	327	0.00	231 77, 10, 1710, 322
LOT-01	GABON	5.00	0.97	11.78	339	1825	25.2	1.5	Ferralsols	492.9	34.61	399	0.64	J-LD
			-						Orthic					V ==
LOT-02	GABON	5.00	0.83	11.80	292	1768	25.5	3.6	Ferralsols	446.6	32.16	390	0.65	J-LD
			_						Ferralic					
LWW-01	GABON	1.00	0.42	11.40	302	1818	25.3	9.0	Cambisols	425.7	32.31	362	0.62	LJTW, KJ, MC, SLL
									Orthic					
MAK-10	GABON	0.40	0.50	12.80	551	1657	23.6	0.8	Ferralsols	461.3	35.40	443	0.62	AH, SLL
	CONGO,													
	Democratic		-						Ferralic					
MAL-01	Republic of	1.00	2.45	16.55	443	1587	24.9	0.4	Arenosols	313.5	24.47	447	0.69	J-FB, CDC, JB
	CONGO,													
	Democratic		-						Ferralic					
MAL-02	Republic of	1.00	2.46	16.55	443	1587	24.9	0.4	Arenosols	342.9	26.42	476	0.70	J-FB, CDC, JB
	CONGO,													
	Democratic		-						Ferralic					
MAL-03	Republic of	1.00	2.46	16.56	432	1581	25.0	0.7	Arenosols	389.3	25.46	318	0.67	J-FB, CDC, JB
	CONGO,								_					
	Democratic		-						Ferralic					
MAL-04	Republic of	1.00	2.46	16.56	432	1581	25.0	0.9	Arenosols	420.0	27.27	336	0.69	J-FB, CDC, JB
	CONGO,													
NAAL OF	Democratic	1.00	2.55	16.50	454	1505	24.0	0.5	Ferralic	406 7	20.04	240	0.70	I ED CDC ID
MAL-05	Republic of	1.00	2.55	16.50	451	1585	24.9	0.5	Arenosols	486.7	30.81	349	0.70	J-FB, CDC, JB
	CONGO, Democratic								Ferralic					
MAL-06	Republic of	1.00	2.57	16.48	472	1594	24.8	0.4		405.7	29.71	350	0.62	J-FB, CDC, JB
IVIAL-UO	republic of	1.00	2.57	10.48	4/2	1594	24.8	0.4	Arenosols	405.7	29./1	350	0.62	J-FD, CDC, JB

	CONGO,													
	Democratic		-						Ferralic					
MAL-07	Republic of	1.00	2.55	16.47	475	1601	24.8	0.5	Arenosols	352.5	22.16	181	0.70	J-FB, CDC, JB
	CONGO,													
	Democratic		-						Ferralic					
MAL-08	Republic of	1.00	2.53	16.47	470	1601	24.8	1.1	Arenosols	421.2	26.62	386	0.75	J-FB, CDC, JB
	CONGO,													
	Democratic		-						Ferralic					
MAL-09	Republic of	1.00	2.55	16.50	448	1583	24.9	0.2	Arenosols	412.1	25.40	279	0.67	J-FB, CDC, JB
	CONGO,													
	Democratic		-						Ferralic					
MAL-10	Republic of	1.00	2.60	16.48	463	1588	24.8	0.2	Arenosols	493.9	34.02	477	0.67	J-FB, CDC, JB
	CONGO,													
	Democratic		-						Ferralic					
MAL-11	Republic of	1.00	2.61	16.47	465	1592	24.8	0.8	Arenosols	462.1	28.50	385	0.71	J-FB, CDC, JB
	CONGO,													
	Democratic		-						Ferralic					
MAL-12	Republic of	1.00	2.61	16.48	467	1591	24.8	0.1	Arenosols	449.5	26.37	318	0.72	J-FB, CDC, JB
	CONGO,													
	Democratic		-						Ferralic					
MAL-13	Republic of	1.00	2.52	16.38	464	1612	24.8	0.5	Arenosols	394.9	24.55	293	0.72	J-FB, CDC, JB
	CONGO,													
	Democratic	4.00	-	46.44	-10	4607	245	0.0	Ferralic	204.0	0	200	0.60	
MAL-14	Republic of	1.00	2.53	16.41	512	1627	24.5	0.3	Arenosols	384.9	25.55	308	0.69	J-FB, CDC, JB
	CONGO,													
	Democratic	4.00	2.62	46.50	470	4500	240	4.6	Ferralic	E42.4	20.04	270	0.77	1 50 606 10
MAL-15	Republic of	1.00	2.63	16.50	473	1589	24.8	1.6	Arenosols	513.4	28.81	378	0.77	J-FB, CDC, JB
	CONGO,								Famalia					
NAAL 16	Democratic	1.00	2.61	16.40	462	1507	240	0.2	Ferralic	467.0	22.05	450	0.66	LED CDC ID
MAL-16	Republic of	1.00	2.61	16.49	463	1587	24.8	0.2	Arenosols	467.8	32.05	458	0.66	J-FB, CDC, JB
	CONGO, Democratic								Ferralic					
NANI 17		1.00	2.47	16.44	430	1595	25.0	0.6		410.8	26.64	341	0.70	I EB CDC IB
MAL-17	Republic of	1.00	2.47	10.44	430	1999	25.0	0.6	Arenosols Ferralic	410.8	20.04	341	0.70	J-FB, CDC, JB
MBM-01	GABON	2.50	0.38	10.80	127	2008	26.0	NA	Arenosols	470.1	33.04	462	0.69	J-LD
דח-ואוחואו	JADON	2.30	0.56	10.00	14/	2006	20.0	INA	ALCHUSUIS	4/0.1	33.04	402	0.09	J-LD

										- augustia					
MBM-02	GABON	2.50	0.42	10.82	175	2015	25.7	NA		Ferralic Arenosols	421.4	28.73	393	0.69	J-LD
IVIDIVI 02	GABOIT	2.50	0.42	10.02	1/3	2013	23.7	IVA		Ferralic	721.7	20.73	333	0.03	3 25
MBM-03	GABON	2.50	0.45	10.83	190	2013	25.6	NA		Arenosols	470.2	31.37	412	0.68	J-LD
			_							Ferralic					
MBM-04	GABON	2.50	0.35	10.82	153	2008	25.8	NA	Δ	Arenosols	627.4	40.30	442	0.68	J-LD
									F	Ferralic					
MDC-01	GABON	1.00	0.62	10.41	400	2369	23.6	0	.3 0	Cambisols	330.0	28.69	540	0.60	TS
									F	Ferralic					
MDC-02	GABON	1.00	0.62	10.41	300	2369	24.1	0	.0 C	Cambisols	499.7	39.05	513	0.61	TS
										Ferralic					
MDC-03	GABON	1.00	0.62	10.42	300	2369	24.1	0	.6 C	Cambisols	542.1	35.89	509	0.70	TS
									F	Ferralic					
MDC-04	GABON	1.00	0.47	10.28	148	2403	25.3	NA	C	Cambisols	466.1	32.28	497	0.67	TS
									F	Ferralic					
MDC-05	GABON	1.00	0.46	10.29	200	2417	25.0	NA	C	Cambisols	676.2	41.91	535	0.70	TS
										Orthic					
MDJ-01	CAMEROON	1.00	6.17	12.83	773	1612	23.8	0	.1 A	Acrisols <sup>1</sup>	360.5	35.56	611	0.53	SLL, BS, TRF, JL
									_	Plinthic					
MDJ-03	CAMEROON	1.00	5.98	12.87	761	1590	23.9	0		Acrisols <sup>1</sup>	296.6	25.59	467	0.56	SLL, BS, TRF, JL
										Plinthic					
MDJ-07	CAMEROON	1.00	6.01	12.89	755	1591	23.9	0	.2 A	Acrisols <sup>1</sup>	296.8	25.56	465	0.56	SLL, BS, TRF, JL
										Eutric					
MIN-01	CAMEROON	1.00	2.43	13.52	696	1626	22.8	9		Nitosols	262.3	22.94	370	0.56	BS, VD, MS, LZ
			-							Orthic					
MKN-90	GABON	1.28	0.78	11.97	364	1726	25.1	0		Ferralsols	478.4	33.69	487	0.69	J-LD
			-						_	Orthic					
MKN-94	GABON	1.44	0.78	11.97	364	1726	25.1	0		Ferralsols	464.9	33.40	419	0.67	J-LD
			-							Orthic					
MKN-96	GABON	1.28	0.78	11.97	364	1726	25.1	0		Ferralsols	414.6	30.53	395	0.63	J-LD
			-					_		Ferralic					
MLL-01	GABON	2.50	0.60	12.80	577	1750	23.5	0		Cambisols	449.2	33.40	457	0.65	J-LD, PJ
			-							Ferralic					
MLL-02	GABON	2.50	0.62	12.82	425	1693	24.4	1		Cambisols	453.8	33.78	408	0.63	J-LD, PJ
	EQUATORIAL		4.55	0.55	2-2	2455				Ferralic		20.55			
MMI-01	GUINEA	1.00	1.39	9.92	373	2408	23.3	12	.8   0	Cambisols	419.8	29.09	436	0.68	TS

	EQUATORIAL								Ferralic					
MMI-02	GUINEA	1.00	1.37	9.97	552	2430	22.4	13.9	Cambisols	344.7	29.97	646	0.61	TS
MNK-01	GABON	1.00	1.16	12.81	548	1625	23.7	22.4	Orthic Ferralsols	403.6	28.00	352	0.67	LJTW, ML
WIIW OI	GABON	1.00	1.10	12.01	340	1023	25.7	22.4	Orthic	403.0	20.00	332	0.07	LJ I VV, IVIL
MNK-02	GABON	1.00	1.15	12.81	552	1627	23.7	21.7	Ferralsols	370.0	26.57	461	0.68	LJTW, ML
									Orthic					
MPG-01	UGANDA	0.64	0.21	32.29	1219	1286	21.3	0.5	Ferralsols	396.2	41.37	491	0.55	AH, DT
MAVE O1	GABON	2.50	2 12	10.05	382	1662	23.6	1 1	Ferralic	210.2	26.04	Г11	0.63	LLD
MYB-01	GABON	2.50	3.12	10.95	382	1002	23.0	1.1	Cambisols Ferralic	319.2	26.84	511	0.63	J-LD
MYB-02	GABON	2.50	3.26	11.11	380	1621	23.6	1.3	Cambisols	430.4	33.12	486	0.63	J-LD
			_						Ferralic					
MYB-03	GABON	2.50	3.29	11.13	509	1667	22.9	2.8	Cambisols	438.9	35.05	598	0.64	J-LD
									Eutric					
NGI-01	CAMEROON	1.00	5.35	9.52	251	2837	26.0	4.3	Nitosols	330.8	25.51	423	0.69	BS, SLL
									Eutric					
NGI-02	CAMEROON	1.00	5.35	9.52	251	2837	26.0	4.9	Nitosols	484.7	32.75	472	0.74	BS, SLL
									Eutric					
NGI-03	CAMEROON	1.00	5.36	9.55	248	2825	26.0	8.0	Nitosols	318.0	23.79	400	0.68	BS, SLL
		4.00	- 06	0.50	=0=		246	0 =	Eutric	2010	20.02	460	0.74	DC 011
NGI-04	CAMEROON	1.00	5.36	9.58	505	2775	24.6	9.7	Nitosols	394.9	28.92	469	0.71	BS, SLL
NGI-05	CAMEROON	1.00	5.36	9.58	403	2777	25.1	8.8	Eutric Nitosols	396.1	30.78	523	0.70	BS, SLL
									Eutric					
NGI-06	CAMEROON	1.00	5.17	9.68	524	2750	24.3	0.8	Nitosols	347.3	34.11	537	0.54	BS, SLL
									Eutric					
NGI-07	CAMEROON	1.00	5.18	9.68	638	2727	23.7	0.7	Nitosols	259.4	29.96	486	0.50	BS, SLL
									Humic					
NGI-08	CAMEROON	1.00	5.18	9.68	769	2727	23.0	0.6	Andosols	179.2	23.21	457	0.46	BS, SLL
									Orthic					
NGO-01	CAMEROON	1.00	2.64	14.14	534	1604	23.7	0.8	Ferralsols	354.9	32.41	445	0.50	BS, VD, MS, LZ
NGO 03	CANAFROOM	4.00	2.64		<b>50</b> 6	4645	22.4	0.0	Orthic	405 -	40.06	F40	0.50	DC 1/D 146 17
NGO-02	CAMEROON	1.00	2.64	14.14	586	1612	23.4	0.9	Ferralsols	495.7	40.06	518	0.56	BS, VD, MS, LZ
NGO-03	CAMEROON	1.00	2.63	14.14	511	1600	23.8	1.4	Orthic Acrisols	185.0	18.12	386	0.55	BS, VD, MS, LZ
1100-03	CAMILITOON	1.00	2.03	17.17	711	1000	23.0	1.4	73013013	100.0	10.12	300	0.55	55, V D, IVIS, LL

	CONGO,													
	People's								Xanthic					
NNP-01	Republic of	1.00	2.23	16.37	379	1663	24.8	1.0	Ferralsols	479.1	29.23	258	0.71	TS
	CONGO,													
	People's								Xanthic					
NNP-02	Republic of	1.00	2.24	16.40	366	1662	24.9	4.1	Ferralsols	261.5	20.84	291	0.62	TS
	CONGO,													
	People's								Xanthic					
NNP-03	Republic of	1.00	2.38	16.91	458	1712	24.4	2.5		285.6	22.78	307	0.62	TS
									Eutric					
OBE-10	NIGERIA	1.25	5.30	8.48	120	2612	26.2	2.2	Nitosols	310.7	27.60	580	0.66	SLL, LO
225.00		4.00	- 00	0.47	405	2604	26.4	0.4	Eutric	245.6			0.50	
OBE-83	NIGERIA	1.00	5.30	8.47	135	2601	26.1	0.4	Nitosols	315.6	27.75	554	0.68	SLL, LO
ODE 04	NUCERIA	4.00	F 20	0.40	120	2642	26.2	2.5	Eutric	265.2	22.20	coc	0.73	CI 10
OBE-84	NIGERIA	1.00	5.30	8.49	120	2612	26.2	2.5	Nitosols	265.2	23.39	606	0.72	SLL, LO
OBW-10	NIGERIA	1.13	5.42	8.25	102	2420	26.5	0.5	Eutric Nitosols	461.6	34.18	396	0.62	LO
OPAN-10	INIGERIA	1.15	5.42	6.23	102	2420	20.5	0.5	Orthic	401.0	34.16	390	0.02	10
OGI-01	GABON	1.00	0.08	12.33	436	1596	24.6	4.5		586.2	40.62	350	0.62	EC
00.01	0,15011	1.00	-	12.55	130	1330	20	1.0	Orthic	300.2	10.02	330	0.02	
OGI-02	GABON	1.00	0.15	12.27	527	1634	24.1	3.5		311.7	25.73	278	0.58	EC
			-		-				Ferralic					_
OGI-03	GABON	1.00	0.19	12.20	249	1543	25.7	0.0		262.3	21.61	256	0.57	EC
									Orthic					
OGI-04	GABON	1.00	0.42	12.05	522	1602	24.1	NA	Ferralsols	466.1	37.54	443	0.60	EC
									Orthic					
OGI-05	GABON	1.00	0.42	12.08	507	1595	24.2	NA	Ferralsols	514.9	37.79	335	0.62	EC
									Orthic					
OGI-06	GABON	1.00	0.41	12.13	493	1592	24.3	NA	Ferralsols	353.6	29.52	276	0.55	EC
									Orthic					
OGI-07	GABON	1.00	0.39	12.10	507	1595	24.2	NA	Ferralsols	590.8	39.13	365	0.65	EC
	SIERRA			-					Plinthic					
OUT-01	LEONE	1.00	9.67	12.14	83	2304	27.5	0.8		191.8	17.33	274	0.56	TS, MB
0115.51			0	44.5-					Orthic		0=0=			
OVG-01	GABON	1.00	0.73	11.37	601	1754	23.3	2.6	Ferralsols	510.3	37.32	443	0.62	JR, SLL

			1	1					I		l			
OWN-10	NIGERIA	1.25	6.68	5.87	234	1722	25.5	0.2	Dystric Nitosols	383.9	30.97	457	0.65	LO
OVVIV-10	MIGENIA	1.23	0.08	3.07	234	1/22	23.3	0.2	Ferralic	363.3	30.97	437	0.03	LO
RBM-01	GABON	2.50	1.88	10.33	395	2073	24.1	7.8	Cambisols	371.0	29.12	471	0.64	J-LD
KBIVI-01	GABON	2.30	1.00	10.55	333	2073	24.1	7.0	Ferralic	3/1.0	25.12	4/1	0.04	J-LD
RBM-04	GABON	2.50	1.81	10.33	472	2108	23.7	4.4	Cambisols	410.4	32.02	516	0.65	J-LD
INDIVI-04	CONGO,	2.50	1.01	10.55	472	2100	23.7	4.4	Carribisois	410.4	32.02	310	0.03	J-LD
	People's								Ferralic					
SAN-21	Republic of	1.00	2.26	16.38	405	1666	24.7	3.5	Arenosols	498.1	31.73	363	0.65	JRP, CJC, DJH
JAIN-21	CONGO,	1.00	2.20	10.38	403	1000	24.7	3.3	Aleliosois	430.1	31.73	303	0.03	JIVE, CJC, DJIT
	People's								Ferralic					
SAN-22	Republic of	1.00	2.30	16.39	425	1669	24.6	7.5	Arenosols	621.3	37.50	354	0.68	JRP, CJC, DJH
JAIN-22	CONGO,	1.00	2.30	10.55	423	1003	24.0	7.5	Alchosois	021.5	37.30	334	0.00	JIM , CJC, DJM
	People's								Ferralic					
SAN-23	Republic of	1.00	2.35	16.32	433	1662	24.6	13.1	Arenosols	515.2	36.46	345	0.59	JRP, CJC, DJH
3AN 23	CONGO,	1.00	2.55	10.52	733	1002	24.0	13.1	Archosols	313.2	30.40	343	0.55	JRT , CJC, DJTT
	People's								Ferralic					
SAN-24	Republic of	1.00	2.34	16.35	422	1663	24.6	12.1	Arenosols	412.7	30.99	322	0.57	JRP, CJC, DJH
37111 24	CONGO,	1.00	2.54	10.55	722	1003	24.0	12.1	71103013	712.7	30.33	322	0.57	3111 , ese, barr
	People's								Ferralic					
SAN-25	Republic of	1.00	2.38	16.38	435	1665	24.6	16.2	Arenosols	372.2	26.85	324	0.62	JRP, CJC, DJH
37 117 23	CONGO,	1.00	2.50	10.50	.55	1003	21.0	10.2	7.1. 01103013	372.2	20.03	32.	0.02	3111 ) 63 6) 5311
	People's								Ferralic					
SAN-26	Republic of	1.00	2.37	16.39	446	1671	24.5	15.9	Arenosols	366.0	27.95	448	0.61	JRP, CJC, DJH
	CONGO,													,,
	People's								Ferralic					
SAN-27	Republic of	1.00	2.40	16.43	457	1673	24.4	19.9	Arenosols	458.3	31.99	307	0.61	JRP, CJC, DJH
	CONGO,													, ,
	People's								Ferralic					
SAN-28	Republic of	1.00	2.37	16.43	457	1675	24.4	16.9	Arenosols	560.1	38.25	435	0.63	JRP, CJC, DJH
	CONGO,													
	People's								Ferralic					
SAN-29	Republic of	1.00	2.40	16.46	451	1674	24.4	21.9	Arenosols	382.8	27.19	378	0.65	JRP, CJC, DJH
	CONGO,													
	People's								Ferralic					
SAN-30	Republic of	1.00	2.37	16.47	476	1684	24.3	19.8	Arenosols	469.0	31.93	394	0.65	JRP, CJC, DJH

												T		
CCA 01	CARON	0.50	2.57	0.01	25	1075	25.4	0.4	Ferralic	C 4 2 1	40.03	200	٥،	1 IT\A/ NAI
SCA-01	GABON	0.50	2.57	9.81	35	1875	25.4	0.4	Arenosols	642.1	40.83	298	0.65	LJTW, ML
CCV 03	CARON	0.50	2.57	0.01	35	1875	25.4	0.1	Ferralic	467.0	20.00	202	0.67	1 IT\A/ N/I
SCA-02	GABON	0.50	2.57	9.81	33	18/5	25.4	0.1	Arenosols Eutric	467.8	30.90	282	0.67	LJTW, ML
TBE-05	GHANA	0.64	7.01	-2.05	292	1291	25.6	0.5	Nitosols	266.0	26.25	498	0.58	KA-B, SF, TRB, TF, EGF, SLL
TBL-03	GHANA	0.04	7.01	-2.03	232	1291	23.0	0.5	Eutric	200.0	20.23	436	0.36	EGF, SLL
TNP-06	CAMEROON	1.00	6.13	9.41	196	2343	26.4	1.0	Nitosols	446.9	32.85	472	0.66	TS
1141 00	CANIEROON	1.00	0.13	3.41	130	2343	20.4	1.0	Eutric	440.5	32.03	7/2	0.00	15
TNP-07	CAMEROON	1.00	6.13	9.41	325	2337	25.8	0.6	Nitosols	595.2	42.39	509	0.67	TS
1111 07	CANTERCON	1.00	0.13	3.11	323	2337	25.0	0.0	Eutric	333.2	12.55	303	0.07	.5
TNP-08	CAMEROON	1.00	6.31	9.37	1217	2145	21.3	0.3	Nitosols	249.2	25.73	563	0.60	TS
									Eutric					
TNP-10	CAMEROON	1.00	6.20	9.34	171	2283	26.6	0.5	Nitosols	389.0	28.32	469	0.69	TS
									Eutric					
TNP-11	CAMEROON	1.00	6.19	9.34	174	2291	26.6	1.1	Nitosols	239.3	22.14	414	0.61	TS
									Eutric					
TNP-12	CAMEROON	1.00	6.12	9.21	130	2353	26.7	1.0	Nitosols	449.0	31.65	429	0.71	TS
									Eutric					
TNP-13	CAMEROON	1.00	6.13	9.22	140	2344	26.7	1.8	Nitosols	448.5	32.15	459	0.70	TS
									Eutric					
TNP-14	CAMEROON	1.00	6.05	9.27	176	2425	26.5	2.4	Nitosols	271.2	23.91	400	0.61	TS
									Eutric					
TNP-15	CAMEROON	1.00	6.05	9.28	160	2424	26.5	2.5	Nitosols	369.1	31.98	436	0.60	TS
									Ferric					KA-B, SF, TRB,
TON-01	GHANA	1.00	6.07	-2.12	141	1464	26.0	1.1	Acrisols	346.6	28.04	394	0.62	EGF, TF, SLL
									Orthic					KA-B, SF, TRB,
TON-08	GHANA	1.00	6.04	-2.10	120	1457	26.2	2.5	Acrisols	292.7	29.70	464	0.54	EGF, TF, SLL
	TANZANIA,													
LIDI 04	UNITED	0.35	0.50	25.07	F40	1464	245	0.0	Ferralic	1 4 4 4	16.36	350	0.65	IT ICI
UDJ-01	REPUBLIC OF	0.25	8.59	35.87	510	1461	24.5	0.2	Cambisols	141.1	16.26	356	0.65	JT, JCL
	TANZANIA,								Formal: a					
UDJ-02	UNITED REPUBLIC OF	0.25	8.59	35.87	672	1461	23.7	0.2	Ferralic Cambisols	120 1	12 44	296	0.61	IT ICI
003-02		0.25	8.59	33.87	0/2	1401	23.7	0.2	Ferralic	120.1	13.44	296	0.01	JT, JCL
VTA-01	TANZANIA, UNITED	1.00	7.82	36.98	295	1521	24.8	0.6	Cambisols	335.3	24.62	207	N 72	AM, JCL, SLL
A I W-OT	UNITED	1.00	7.02	30.30	293	1321	24.0	0.0	Carribisois	333.3	24.02	207	0.73	AIVI, JCL, JLL

	REPUBLIC OF													
VTA-02	TANZANIA, UNITED REPUBLIC OF	1.00	- 7.81	36.87	630	1532	23.2	1.8	Chromic Cambisols	253.9	25.66	290	0.57	AM, JCL, SLL
VTA-03	TANZANIA, UNITED REPUBLIC OF	1.00	- 7.77	36.89	670	1488	23.0	NA	Chromic Cambisols	344.2	31.44	410	0.64	
VTA-04	TANZANIA, UNITED REPUBLIC OF	1.00	- 7.74	36.91	608	1461	23.3	NA	Chromic Cambisols	300.5	24.54	311	0.69	AM, JCL, SLL
VTA-05	TANZANIA, UNITED REPUBLIC OF	1.00	- 7.81	36.85	809	1462	22.2	2.7	Chromic Cambisols	208.6	19.31	355	0.61	AM, JCL, SLL
VTA-13	TANZANIA, UNITED REPUBLIC OF	1.00	- 5.11	38.60	995	1847	20.1	0.4	Eutric Nitosols	454.5	43.01	457	0.60	AM, JCL, SLL
VTA-14	TANZANIA, UNITED REPUBLIC OF	1.00	- 5.10	38.65	630	1389	22.3	0.5	Eutric Nitosols	228.8	30.75	542	0.50	AM, JCL, SLL
VTA-19	TANZANIA, UNITED REPUBLIC OF	1.00	- 7.85	36.87	599	1566	23.4	2.1	Chromic Cambisols	206.5	22.92	454	0.60	AM, JCL, SLL
VTA-23	TANZANIA, UNITED REPUBLIC OF	0.40	- 7.01	37.81	374	1686	25.6	0.2	Chromic Cambisols	204.0	22.42	355	0.58	SW, SLL
VTA-24	TANZANIA, UNITED REPUBLIC OF	0.40	- 7.18	36.96	593	1005	23.9	0.1	Chromic Cambisols	210.3	23.70	378	0.58	SW, SLL
VTA-28	TANZANIA, UNITED REPUBLIC OF	0.40	- 6.00	37.74	521	1055	23.7	0.0	Orthic Ferralsols	349.5	38.07	448	0.53	SW, SLL
VTA-29	TANZANIA, UNITED REPUBLIC OF	0.40	- 6.00	37.73	771	1077	22.2	0.6	Orthic Ferralsols	175.5	20.09	420	0.60	SW, SLL
VTA-30	TANZANIA,	0.40	-	37.72	1012	1108	20.9	0.2	Orthic	283.5	26.54	508	0.54	SW, SLL

	UNITED		6.00						Ferralsols					
	REPUBLIC OF													
	TANZANIA,													
	UNITED		-						Cambic					
VTA-34	REPUBLIC OF	0.40	5.47	38.80	90	1175	26.4	0.7	Arenosols	175.3	19.05	515	0.73	SW, SLL
	TANZANIA,													
	UNITED		-						Eutric					
VTA-35	REPUBLIC OF	0.40	4.97	38.75	201	1224	25.2	0.8	Nitosols	216.8	27.17	478	0.47	SW, SLL
	TANZANIA,													
	UNITED		-						Eutric					
VTA-36	REPUBLIC OF	0.20	4.97	38.75	288	1171	24.4	1.5	Nitosols	452.0	43.26	585	0.66	SW, SLL
	TANZANIA,													
	UNITED		-						Chromic					
VTA-40	REPUBLIC OF	0.40	8.09	36.33	311	1462	25.1	2.2	Cambisols	124.2	15.09	388	0.64	SW, SLL
	TANZANIA,													
	UNITED		-						Chromic					
VTA-41	REPUBLIC OF	0.40	8.06	36.33	318	1455	25.1	1.7	Cambisols	234.8	22.38	440	0.73	SW, SLL
			-						Ferralic					
WKA-09	GABON	1.00	1.14	11.07	529	2078	24.0	6.0	Arenosols	613.7	47.12	551	0.60	TS
			-						Ferralic					
WKA-10	GABON	1.00	1.14	11.07	569	2078	23.8	6.0	Arenosols	535.3	44.49	620	0.57	TS
	CONGO,													EK, HV, PB, TdH,
	Democratic								Ferralic					KH, KS, HB, JB,
YGB-01	Republic of	1.00	0.99	24.54	515	1792	24.3	1.2	Arenosols	440.9	32.63	490	0.63	DH, BT
	CONGO,													EK, HV, PB, TdH,
	Democratic								Ferralic					KH, KS, HB, JB,
YGB-02	Republic of	1.00	0.99	24.54	503	1788	24.4	1.6	Arenosols	371.6	31.47	598	0.58	DH, BT
	CONGO,													EK, HV, PB, TdH,
	Democratic								Ferralic					KH, KS, HB, JB,
YGB-03	Republic of	1.00	0.99	24.54	503	1788	24.4	1.9	Arenosols	345.3	29.20	556	0.60	DH, BT
	CONGO,													EK, HV, PB, TdH,
	Democratic								Ferralic					KH, KS, HB, JB,
YGB-04	Republic of	1.00	0.81	24.51	464	1768	24.6	2.2	Arenosols	437.0	34.81	563	0.63	DH, BT
	CONGO,													EK, HV, PB, TdH,
	Democratic								Ferralic					KH, KS, HB, JB,
YGB-05	Republic of	1.00	0.78	24.52	477	1774	24.5	0.1	Arenosols	447.3	35.25	403	0.59	DH, BT

	CONGO,													EK, HV, PB, TdH,
	Democratic								Ferralic					KH, KS, HB, JB,
YGB-06	Republic of	1.00	0.83	24.52	438	1765	24.7	3.0	Arenosols	498.8	31.80	344	0.67	DH, BT
	CONGO,													EK, HV, PB, TdH,
	Democratic								Ferralic					KH, KS, HB, JB,
YGB-07	Republic of	1.00	0.83	24.53	464	1772	24.6	3.2	Arenosols	456.2	32.06	436	0.67	DH, BT
	CONGO,													EK, HV, PB, TdH,
	Democratic								Ferralic					KH, KS, HB, JB,
YGB-08	Republic of	1.00	0.81	24.53	466	1769	24.6	1.5	Arenosols	403.6	27.69	374	0.68	DH, BT
	CONGO,													EK, HV, PB, TdH,
	Democratic								Ferralic					KH, KS, HB, JB,
YGB-09	Republic of	1.00	0.87	24.46	427	1766	24.7	0.1	Arenosols	438.1	27.19	217	0.67	DH, BT

<sup>&</sup>lt;sup>1</sup>Lixisols, but these are not included in FAO soil dataset used.