



## Supplementary Materials

**Table S1.** Basic messages of forests with different logging intensities (mean  $\pm$  SD). Differences in variables were compared with Tukey–Kramer HSD test (p < 0.05).

Logging	Elevation	Slope	Soil type	<b>Bulk Density</b>	SOC	SN	SCN	SWC	MWC	CWC
intensity	(m)	(°)		g/cm <sup>3</sup>	g/kg	g/kg	/	g/kg	mm	mm
Old-growth forest	894±140a	23.7±10.3a	lateritic yellow soil	1.12±0.17a	17±6.1a	1.2±0.3a	13.8±3.5a	82.3±16.6a	153.5±13.2a	111.9±12.5a
Selective logging forest	899±104a	25.9±9.6a	lateritic yellow soil	1.16±0.12ab	16.5±5.3a	1.3±0.4a	12.9±3.6a	84.1±17.8a	153.3±14.9a	113.4±16a
Clear cutting forest	856±89a	19.7±6.4a	lateritic yellow soil	1.24±0.08b	13.2±4.3a	1.1±0.2a	11.9±4.3a	82.3±17.6a	148.1±10.5a	115.6±11.9a

Table S2-S6. Variables Selection by Correlation Analyses

Correlation analyses were carried out to choose the most independent variables at each level of organization. For soil physical properties variables (Table S2), SWC was highly correlated with CWC (r = 0.81, p < 0.001), MWC (r= 0.63, p < 0.001) and BD (r= -0.31, p < 0.001). For soil chemical properties variables (Table S3), SOC was highly correlated with SN (r= 0.71, p < 0.001) and moderately correlated with SCN (r= 0.43, p<0.001). For plant functional trait variables in saplings (Table S4), CWM\_SLA was always highly correlated with CWM\_LDMC (r = -0.84, p < 0.001), CWM\_LT (r = -0.83, p < 0.001) and CWM\_CC (r = -0.82, p < 0.001). For plant functional trait variables in treelets (Table S5), CWM\_SLA was always highly correlated with CWM\_LDMC (r = -0.53, p < 0.001), CWM\_LT (r = -0.44, p < 0.001) and CWM\_CC (r = -0.45, p < 0.001). For plant functional trait variables in adult trees (Table S6), CWM\_SLA was always highly correlated with CWM\_LDMC (r = -0.70, p < 0.001), CWM\_LT (r = -0.49, p < 0.001) and CWM\_CC (r = -0.30, p < 0.05).

**Table S2.** Correlations among soil physical properties parameters. All below tables presents correlation coefficients associated with a Pearson's correlation test for the 73 plots. \*\*\* indicates p < 0.001, \*\* indicates 0.001 , \* indicates <math>0.001 , a indicates <math>0.001 .

	SWC	CWC	MWC
CWC	0.81***		_
MWC	0.63***	0.63***	
BD	-0.31***	-0.12**	-0.50***

Table S3. Correlations among soil chemical properties parameters.

	SOC	SN
SN	0.71***	
SCN	0.43***	-0.27*

**Table S4.** Correlations among community functional trait parameters for saplings.

	CWM_SLA5	CWM_LDMC5	CWM_LT5
CWM_LDMC5	-0.84***		
CWM_LT5	-0.83***	0.49***	
CWM_CC5	-0.82***	0.68***	0.77***

Forests **2019**, 10, 774

**Table S5.** Correlations among community functional trait parameters for treelets.

	CWM_SLA10	CWM_LDMC10	CWM_LT10
CWM_LDMC10	-0.53***		
CWM_LT10	-0.44***	0.19 ns	
CWM_CC10	-0.45***	0.16ns	0.45***

 Table S6. Correlations among community functional trait parameters for adult trees.

	CWM_SLA15	CWM_LDMC15	CWM_LT15
CWM_LDMC15	-0.70***		
CWM_LT15	-0.49***	0.15 ns	
CWM_CC15	-0.30*	0.03ns	0.53***