

**Table S2.** Pearson correlations of 12 LiDAR variables (measured on 17 sampling plots) with the four first Principal Components (PCs) extracted from the PCA. The first PC (PC1) had significant correlations with nine out of 12 LiDAR variables, and the second (PC2) had four significant correlations.

Variable	PC1	PC2	PC3	PC4
CON 0,15-0,50	-0,9615 p=,000	-0,1764 p=,498	-0,0642 p=,807	0,0904 p=,730
CON 0,50-1	-0,8234 p=,000	0,4652 p=,060	0,1153 p=,659	0,0163 p=,951
CON 1-1,5	-0,6162 p=,008	0,7076 p=,001	-0,2570 p=,319	0,0572 p=,828
CON 0,15-1,5	-0,9852 p=,000	0,0582 p=,824	-0,0463 p=,860	0,0774 p=,768
CON 1,5-2,5	-0,2355 p=,363	0,8335 p=,000	-0,4524 p=,068	-0,1053 p=,688
CON >2,5	0,9739 p=,000	-0,1569 p=,548	0,0993 p=,705	-0,0615 p=,815
ALT 0,15-0,50	-0,2150 p=,407	0,7947 p=,000	0,4900 p=,046	0,1783 p=,493
ALT 0,50-1	0,7761 p=,000	0,3302 p=,196	-0,1715 p=,510	0,0301 p=,909
ALT 1-1,5	0,3529 p=,165	-0,3823 p=,130	-0,7787 p=,000	0,2307 p=,373
ALT 0,15-1,5	0,5931 p=,012	0,7423 p=,001	0,0071 p=,978	0,1904 p=,464
ALT 1,5-2,5	0,7416 p=,001	0,0315 p=,905	0,1140 p=,663	-0,5659 p=,018
ALT >2,5	0,7700 p=,000	-0,0202 p=,939	0,1806 p=,488	0,4734 p=,055