Supporting information to the paper

Jadán et al. Floristic groups, and changes in diversity and structure of trees, in Tropical Montane forests in the southern Andes of Ecuador

Table S1. Pearson's correlations between all the variables evaluated. The levels of significance are described in the upper part of the matrix and in the lower part are the correlation values from -1 to +1. SR: Species richness; TD: Tree density; BA; Basal area; TH: Total height; DH: Dominant height; AMT: Annual minimum temperature; MAT: Mean annual temperature; AMxT: Annual maximum temperature: MMP: Mean monthly precipitation; MAP: Mean annual precipitation; OM: organic matter; N: Nitrogen; P: Phosphorus; K: Potassium; Ca: Calcium; Mg: Magnesium; Fe: Iron; Mn: Manganese; Cu: Cupper; Zn: Zinc. Pearson's correlations ≥ 0.7 are shown in bold.

	SR	**TD**	**BA**	**TH**	**DH**	**Age**	**Elevation**	**Slope**	**AMT**	**MAT**	**AMxT**	**MMP**	**MAP**	**pH**	**OM**	**N**	**P**	**K**	**Ca**	**Mg**	**Fe**	**Mn**	**Cu**	**Zn**
SR	1	0.05	0.26	0.16	0.14	0.03	0.21	0.30	0.10	0.08	0.06	0.51	0.61	0.67	0.85	0.86	0.20	0.39	0.91	0.55	0.40	0.78	0.27	0.58
TD	0.37	1	0.21	0.39	0.89	0.34	0.00	0.11	0.100	0.10	0.12	0.09	0.16	0.16	0.09	0.09	0.60	0.50	0.25	0.50	0.71	0.60	0.47	0.19
BA	0.22	0.24	1	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.01	0.17	0.28	0.27	0.19	0.91	0.02	0.74	0.14	0.24	0.43	0.21
TH	0.27	-0.17	0.62	1	0.00	0.00	0.65	0.910	0.07	0.04	0.02	0.00	0.00	0.02	0.55	0.55	0.01	0.73	0.01	0.58	0.03	0.00	0.94	0
DH	0.29	-0.03	**0.70**	0.95	1	0.00	0.18	0.96	0.02	0.01	0.00	0.00	0.00	0.07	0.48	0.48	0.04	0.98	0.05	0.96	0.04	0.00	0.94	0.01
Age	0.41	0.19	**0.83**	**0.79**	**0.86**	1	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.23	0.49	0.48	0.04	0.98	0.04	0.90	0.04	0.02	0.69	0.03
Elevation	0.25	0.54	0.53	0.09	0.26	0.53	1	0.740	0.00	0.00	0.00	0.85	0.71	0.02	0.82	0.85	0.76	0.61	0.30	0.20	0.45	0.49	0.58	0.62
Slope	0.20	0.31	0.03	-0.02	-0.01	0.10	0.07	1	0.60	0.60	0.61	0.56	0.75	0.93	0.17	0.18	0.68	0.48	0.380	0.04	0.48	0.45	0.47	0.37
AMT	-0.31	-0.32	**-0.74**	-0.35	-0.45	**-0.70**	**-0.84**	-0.10	1	0.00	0.00	0.33	0.37	0.80	0.71	0.69	0.43	0.53	0.25	0.88	0.49	0.91	0.32	0.63
MAT	-0.33	-0.31	**-0.74**	-0.40	-0.49	**-0.73**	**-0.83**	-0.10	1.00	1.00	0.00	0.27	0.26	0.87	0.74	0.73	0.38	0.57	0.240	0.91	0.42	0.940	0.31	0.5
AMxT	-0.36	-0.30	**-0.74**	-0.43	-0.52	**-0.75**	**-0.81**	-0.10	**0.99**	1.00	1	0.24	0.19	1.00	0.74	0.72	0.29	0.57	0.20	0.88	0.32	0.85	0.33	0.41
MMP	-0.13	-0.33	0.53	**0.81**	**0.78**	0.65	0.04	-0.12	-0.19	-0.22	-0.23	1	0.00	0.11	0.68	0.69	0.26	0.87	0.09	0.75	0.24	0.00	0.65	0.00
MAP	0.10	-0.27	0.46	**0.90**	0.83	0.69	-0.07	0.06	-0.17	-0.22	-0.26	**0.83**	1	0.01	0.89	0.90	0.02	0.82	0.02	0.64	0.06	0.00	0.84	0.00
pH	-0.08	-0.27	0.27	0.45	0.35	0.23	-0.43	-0.02	0.05	0.03	0.00	0.30	0.49	1	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.06	0.26	0.12
OM	-0.04	-0.33	-0.21	-0.12	-0.14	-0.13	0.04	-0.27	0.07	0.06	0.07	0.08	-0.03	-0.42	1	0.00	0.00	0.05	0.02	0.00	0.01	0.59	0.20	0.22
N	-0.03	-0.33	-0.22	-0.12	-0.14	-0.14	0.04	-0.26	0.08	0.07	0.07	0.08	-0.02	-0.42	1.00	1	0.00	0.05	0.02	0.00	0.01	0.59	0.20	0.23
P	-0.25	-0.10	-0.26	-0.46	-0.39	-0.39	0.06	-0.08	0.15	0.17	0.21	-0.22	-0.43	-0.66	0.58	0.57	1	0.040	0.00	0.02	0.00	0.09	0.41	0.71
K	-0.17	-0.13	0.02	0.07	0.01	0.00	-0.10	0.14	-0.12	-0.11	-0.11	0.03	0.05	0.54	-0.37	-0.37	-0.39	1	0.00	0.00	0.04	0.76	0.15	0.93
Ca	0.02	-0.22	0.45	0.47	0.38	0.38	-0.20	0.17	-0.23	-0.23	-0.25	0.32	0.45	**0.86**	-0.44	-0.43	-0.6	0.66	1	0.00	0.00	0.26	0.07	0.38
Mg	-0.12	-0.13	0.07	0.11	0.01	-0.02	-0.25	0.40	-0.03	-0.02	-0.03	-0.06	0.09	0.59	-0.63	-0.63	-0.44	0.57	0.65	1	0.05	0.99	0.05	0.72

Fe	-0.17	-0.07	-0.29	-0.40	-0.39	-0.39	0.15	-0.14	0.14	0.16	0.19	-0.23	-0.36	-0.72	0.49	0.49	**0.75**	-0.4	-0.61	-0.37	1	0.08	0.51	0.23
Mn	0.05	-0.10	0.23	0.54	0.55	0.44	-0.14	-0.15	0.02	-0.02	-0.04	0.58	0.56	0.36	-0.11	-0.11	-0.33	-0.06	0.22	0.00	-0.34	1	0.250	0.00
Cu	0.22	-0.14	-0.16	0.02	0.02	-0.08	-0.11	-0.14	0.19	0.20	0.19	0.09	-0.04	-0.22	0.25	0.25	0.16	-0.28	-0.35	-0.38	0.13	-0.22	1	0.95
Zn	0.11	-0.25	0.24	0.56	0.51	0.42	-0.10	-0.18	-0.10	-0.13	-0.16	0.58	0.54	0.3	0.24	0.24	-0.07	-0.02	0.17	-0.07	-0.23	0.69	-0.01	1