



Figure S1. Changes in species richness for pioneer and late-successional species along an elevation gradient.

Table S1. Environmental factors recorded in this study.

Environmental Factors	Type of Data	Note
Elevation (m)	Continuous	Range: 584–3535 m
Topography	Nominal	Upper slope, mid slope, lower slope, ridge, valley, plain, mountain foot, mid terrace.
<i>Natural disturbance factors</i>		
Erosion	Nominal (presence/absence)	Trace of erosion.
Wind	Nominal (presence/absence)	Evidence of distinct windthrow, such as gap formation by broken stems or branches and fallen trees.
<i>Human disturbance factors</i>		
Cultivation	Nominal (presence/absence)	Presence of crop land such as beans, corns and potatoes.
Fire	Nominal (presence/absence)	Trace of fire such as charcoal.
Infrastructure	Nominal (presence/absence)	Infrastructure for human activities such as sheds and trails.
Logging	Nominal (presence/absence)	Evidence of logging activities such as stumps and logged trees.

Table S2. Forest characteristics used in this study. All variables are continuous data except forest type (nominal data).

Forest characteristics ^a	Unit	Mean	Min.	Max.
Forest type (primary/secondary)	—	—	—	—
AGB	Mg ha ⁻¹	144.8	12.9	358.3
BGB	Mg ha ⁻¹	40.8	5.1	93.1
Total CWD	Mg ha ⁻¹	14.0	0.0	86.6
Total carbon	MgC ha ⁻¹	91.9	8.6	219.2
Mean DBH	cm	18.9	12.5	27.7
CWM DBH	cm	19.3	12.3	29.7
Max. DBH	cm	55.1	19.9	161.0
Mean tree height	cm	12.7	5.0	19.0
CWM tree height	cm	9.9	1.9	18.4
Max. tree height	cm	24.7	9.5	56.9
Species richness (all species) ^b	spp. 10 trees ⁻¹	5.3	1.2	9.0
Species richness (pioneers) ^b	spp. 10 trees ⁻¹	1.3	0.0	3.4
Species richness (late-successional) ^b	spp. 10 trees ⁻¹	0.8	0.0	2.2
CWM Wood density	g cm ⁻¹	0.5	0.4	0.7
Gini coefficient (DBH basis)	—	0.2	0.1	0.4
Gini coefficient (tree height basis)	—	0.2	0.1	0.3

^a Abbreviations: BA, basal area; CWD, coarse woody debris; CWM, community-weighted mean based on abundance; ^b Species richness was calculated as the average number of species per 10 trees randomly sampled from each plot (see Section 2).