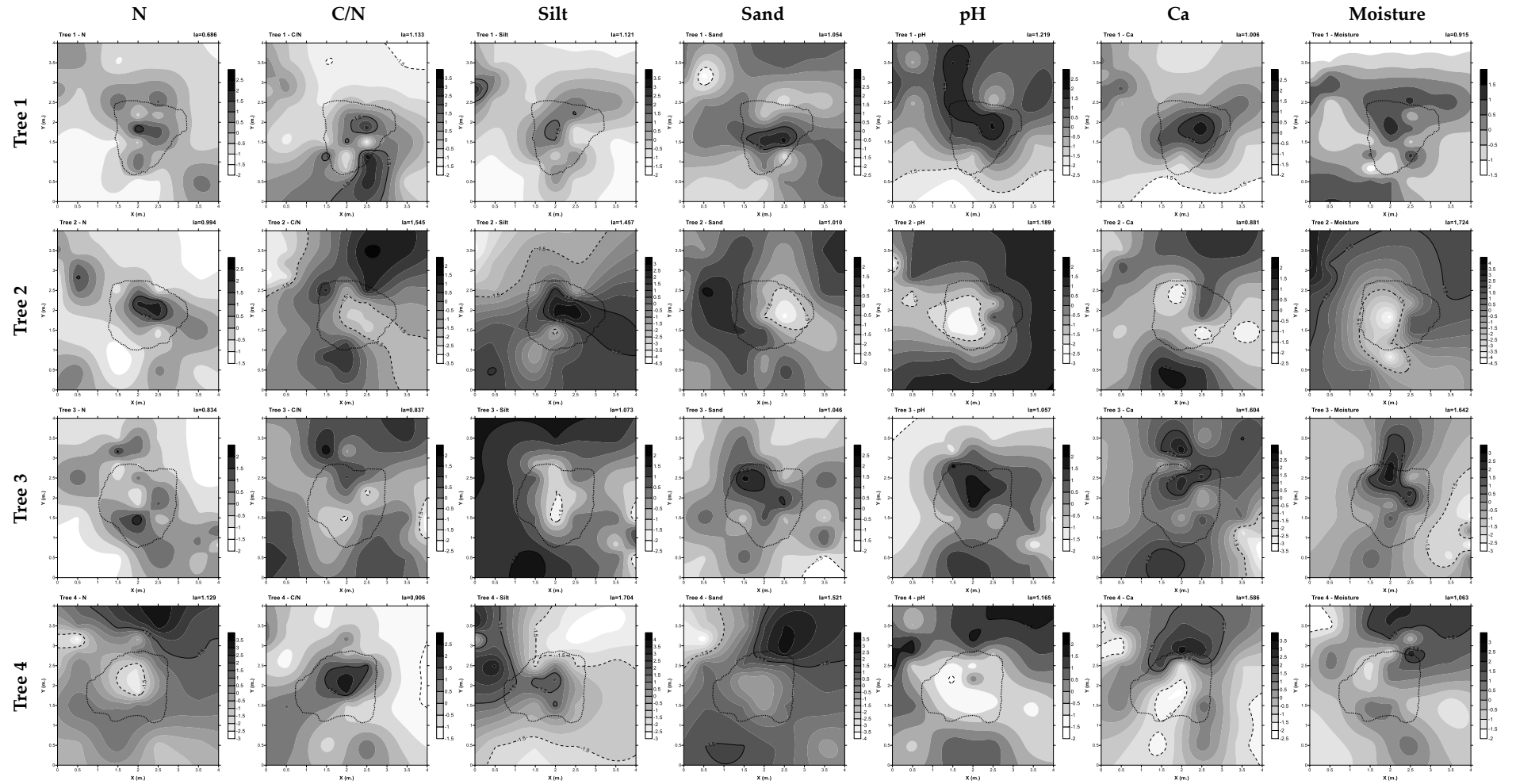# Supplementary Material

Figure S1. Maps of clustering indices (v) of the edaphic variables. By columns: N (nitrogen), C/N (carbon/nitrogen ratio), silt, sand, pH, Ca (calcium) and moisture. By rows, trees 1 to 4 (projected to 4x4 meters surface). Dark areas show clustering spots of edaphic variables (v > 1.5) are delimited by a continuous line, and the light areas show edaphic variables clustering gaps (v < -1.5) are delimited by a discontinuous line. The dotted line represents the crown projection of each tree. In the upper right corner of each sampling unit, the general aggregation pattern (*I$_a$*) is indicated. Legends are unitless.

Table S1. Visual symptomatology and morphological parameters of the four trees selected for this study.

	Tree 1	Tree 2	Tree 3	Tree 4
Appearance				
Height (m)	2.65	2.40	2.70	2.35
Diameter (cm)	10.5	9	10	8.5
Defoliation (%)	15	25	35	70
Slope (%)	6	5	5	10

Table S2. Soil Physicochemical parameters and analytical technique used.

VARIABLE	TECHNIQUE	UNITS	REFERENCE VALUES
Physical properties (Granulometry)			
Texture **Clay - Silt - Sand**	Densimetría Bauyoucos	%	N/A
Chemical properties			
***pH**	Potentiometry	upH	6,5–7,5
Potentiometry (titration)			
Total **Organic Matter (OM)**	Walkley-Black	%	2,00–3,00
Organic **Nitrogen (N)**	Kjeldahl	%	0,1–0,15
Carbon/Nitrogen ratio **(C/N)**	Relation	N/A	9,00–11,00
Spectrophotometry U.V./VIS			
Assimilable **Phosphorus (P)**	Olsen method	Mg/Kg	20,0–70,0
Atomic absorption spectroscopy			
Calcium change **(Ca)**	Atomic absorption spectrometry	meq/100g	2,00–12,0
Potassium change **(K)**	Atomic absorption spectrometry	meq/100g	0,25–0,80

Parameters marked with an asterisk (*) are accredited by ENAC (National Accreditation Entity) nº 1000/LE 1975.