Locality code	Country, Province	masl	Coordinates	Phorophyte	Potential vegetation	Bioclimatic belt
Toro_*Pinus*	Spain, Castellón, El Toro	1480	39.903497, -0.808658	*Pinus sylvestris*	*Junipero thuriferae-Querceto rotundifoliae sigmetum*	Subhumid Supramediterranean
Toro_*Quercus*	Spain, Castellón, El Toro	1240	39.955159, -0.785412	*Quercus rotundifolia*	*Junipero thuriferae-Querceto rotundifoliae sigmetum*	Subhumid Supramediterranean
Cinctorres	Spain, Castellón, Morella	940	40.602866, -0.143989	*Quercus rotundifolia*	*Junipero thuriferae-Querceto rotundifoliae sigmetum*	Arid Supramediterranean
Corachar	Spain, Castellón, Corachar	1200	40.683990, 0.076189	*Pinus nigra*	*Junipero thuriferae-Querceto rotundifoliae sigmetum*	Arid Supramediterranean
Bojar	Spain, Castellón, Bojar	1100	40.679933, 0.108918	*Quercus rotundifolia*	*Violo willkommii-Querceto fagineae sigmetum*	Subhumid Supramediterranean
Collado_Gavilán	Spain, Teruel, Puebla de Valverde	1500	40.17179, -1.01613	*Pinus nigra*	*Junipereto hemisphaerico-thuriferae sigmetum*	Arid Supramediterranean
Villarroya_Pinares	Spain, Teruel, Fortanete	1700	40.509527, -0.614385	*Pinus sylvestris*	*Sabino-Pineto sylvestris sigmetum*	Arid Supramediterranean

Table S1. Characteristics of the seven biomonitoring plots included in this study.

	0	1	2	3	4	5
tolerance to eutrophication		no eutrophication	very weak eutrophication	weak eutrophication	rather high eutrophication	very high eutrophication
water requirement		hygrophytic	rather hygrophytic	mesophytic	xerophytic	very xerophytic
pH of the substratum		very acid	acid	subacid to subneutral	slightly basic	basic
solar irradiance		very shaded situations	shaded situations	plenty of diffuse light but scarce direct solar irradiation	sun-exposed sites, but avoiding extreme solar irradiation	very high direct solar irradiation
poleotolerance	species which exclusively occur on old trees in ancient, undisturbed forests	species occurring in natural or semi-natural habitats	species occurring in moderately disturbed areas	species occurring in heavily disturbed areas		

Table S2. Functional traits categories proposed by Nimis (2023) used in this study