

Supporting information

Table S1 Summary of the variables (mean \pm standard deviation) considered in the study depending on the presence/absence of *Viscum album* and different geographic regions: Catalonia (Cat), region occupied by *Pinus halepensis* in Catalonia (Cat_{Phal}) and core distribution of *Viscum album* in stand of *P. halepensis* (Core_{Phal}). See Methods for abbreviations of variables.

	<i>V. album</i>	Cat	Cat _{Phal}	Core _{Phal}
<i>T_{AN}</i> (tenth of °C)	Absence	110.6 \pm 28.9	136.7 \pm 10.5	136.8 \pm 10.4
	Presence	131.3 \pm 20	139.2 \pm 8.5	138.5 \pm 9.7
<i>H</i> (m)	Absence	10.2 \pm 4.7	9.9 \pm 4.1	9.8 \pm 4.1
	Presence	7.8 \pm 3.4	7.3 \pm 3.1	7.6 \pm 3.2
<i>DN</i> (cm)	Absence	213.8 \pm 103	220.5 \pm 86.1	220.3 \pm 85.3
	Presence	223.7 \pm 74.5	215.6 \pm 64.5	202.3 \pm 77.9
<i>d_{tree}</i> (trees/ha)	Absence	1042.7 \pm 630.9	792 \pm 487.6	779.4 \pm 488.4
	Presence	572.9 \pm 470	510.5 \pm 424.6	650.3 \pm 474.1
<i>DN_m</i> (cm)	Absence	182.4 \pm 55.3	182.1 \pm 44.7	181.8 \pm 44.4
	Presence	180.8 \pm 41	176.4 \pm 36.5	174.4 \pm 41.8
<i>Phal0100</i> (%)	Absence	19.7 \pm 37.5	85.3 \pm 22.3	84.9 \pm 22.3
	Presence	64.4 \pm 34.9	77.3 \pm 21.5	80.6 \pm 21.5
<i>Olive1000</i> (%)	Absence	0.5 \pm 3.1	3 \pm 7.3	3.5 \pm 8.0
	Presence	12.8 \pm 13	15.4 \pm 12.8	11.3 \pm 11.5

Table S2 Generalized linear mixed models examining the influence of landscape variables (percentage of area covered with *Pinus halepensis* and percentage of Olive orchards at different distances from the center of the sampling plot) in explaining the distribution of *Viscum album* on *P. halepensis* at two different spatial scales: (a) Catalonia and (b) southernmost core distribution (Fig. 1). The variable included in the model with the lowest AIC (highlighted in bold) was used in further analysis. See Methods for abbreviations of variables.

(a) Cat _{Phal}	Models	AIC
<i>Phal</i>	<i>Phal0100</i>	5931.9
	<i>Phal0250</i>	5949.7
	<i>Phal0500</i>	6045.4
	<i>Phal1000</i>	6448.1
<i>Olive</i>	<i>Olive0100</i>	27563.3
	<i>Olive0250</i>	5638.6
	<i>Olive0500</i>	5325.2
	<i>Olive1000</i>	5260.1
(b) Core _{Phal}	Models	AIC
<i>Phal</i>	<i>Phal0100</i>	4775.3
	<i>Phal0250</i>	4774.7
	<i>Phal0500</i>	4777.3
	<i>Phal1000</i>	4777.6
<i>Olive</i>	<i>Olive0100</i>	4750.1
	<i>Olive0250</i>	4745.3
	<i>Olive0500</i>	4742.3
	<i>Olive1000</i>	4728.4