

Table S1- Monitored trees that wild boar (*Sus scrofa*) used for rubbing with seasonal number of trapping days and number of rubbing events

Tree species	Spring	Summer	Autumn	Winter
	Trapping days (N of events)	Trapping days (N of events)	Trapping days (N of events)	Trapping days (N of events)
Apple tree (<i>Malus domestica</i>)	89 (4)	74 (4)	53 (1)	53 (1)
Spruce (<i>Picea abies</i>)	46 (34)	94 (42)	20 (7)	49 (24)
Black pine (<i>Pinus nigra</i>)	92 (62)	34 (6)	83 (20)	91 (16)
Black pine (<i>Pinus nigra</i>)	89 (6)	31 (0)	90 (0)	91 (0)
Beech (<i>Fagus sylvatica</i>)	54 (0)	0 (0)	9 (0)	91 (3)
Black pine (<i>Pinus nigra</i>)	43 (19)	33 (3)	49 (20)	89 (53)
Alder (<i>Alnus glutinosa</i>)	43 (1)	33 (0)	49 (0)	0 (0)
Hornbeam (<i>Carpinus betulus</i>)	41 (7)	33 (1)	44 (38)	91 (0)

Table S2- Measurements of monitored wallows

Camera trap ID	Length (cm)	Width (cm)	Depth (cm)	Altitude	Coordinates
11	350	300	20	400	45° 11' 57.18"N 16° 06' 15.12"E
7	650	150	18	399	45° 12' 03.09"N 16° 05' 20.20"E
9	160	180	32	389	45° 12' 57.99"N 16° 04' 27.32"E
16	400	300	70	285	45° 14' 25.51"N 16° 06' 15.29"E
4	280	300	12	304	45° 13' 23.67"N 16° 05' 55.19"E
10	100	100	11	255	45° 14' 43.86"N 16° 04' 02.04"E
15	90	80	10	255	45° 12' 55.16"N 16° 05' 47.13"E
5	280	250	8	226	45° 12' 54.16"N 16° 07' 16.64"E
18	150	150	20	356	45° 15' 20.49"N 16° 05' 57.49"E
17	270	200	22	319	45° 10' 29.00"N 16° 03' 55.00"E

TABLE S3

Term	Estimate	Std_Error	t_value	DF	P_value	CI_low	CI_high
(Intercept)	3.32	0.23	14.31	191.62	0	2.86	3.78
Summer vs Spring	0.21	0.62	0.33	126.35	0.74	-1.03	1.44
Autumn vs Spring	0.16	0.22	0.71	129.05	0.48	-0.28	0.6
Winter vs Spring	-0.03	0.27	-0.11	126.11	0.91	-0.56	0.5
Rubbing trees vs Wallows	0.24	0.26	0.94	197.13	0.35	-0.27	0.76
Random vs Wallows	-0.04	0.26	-0.16	202.92	0.88	-0.56	0.47
summer × rubbing trees	-0.09	0.67	-0.14	126.47	0.89	-1.42	1.23
autumn × rubbing trees	0.03	0.24	0.13	128.98	0.9	-0.44	0.5
winter × rubbing trees	0.23	0.36	0.63	126.07	0.53	-0.48	0.94
summer × random	0.14	0.57	0.25	127.04	0.81	-0.99	1.27
autumn × random	-0.15	0.33	-0.44	128.47	0.66	-0.8	0.51

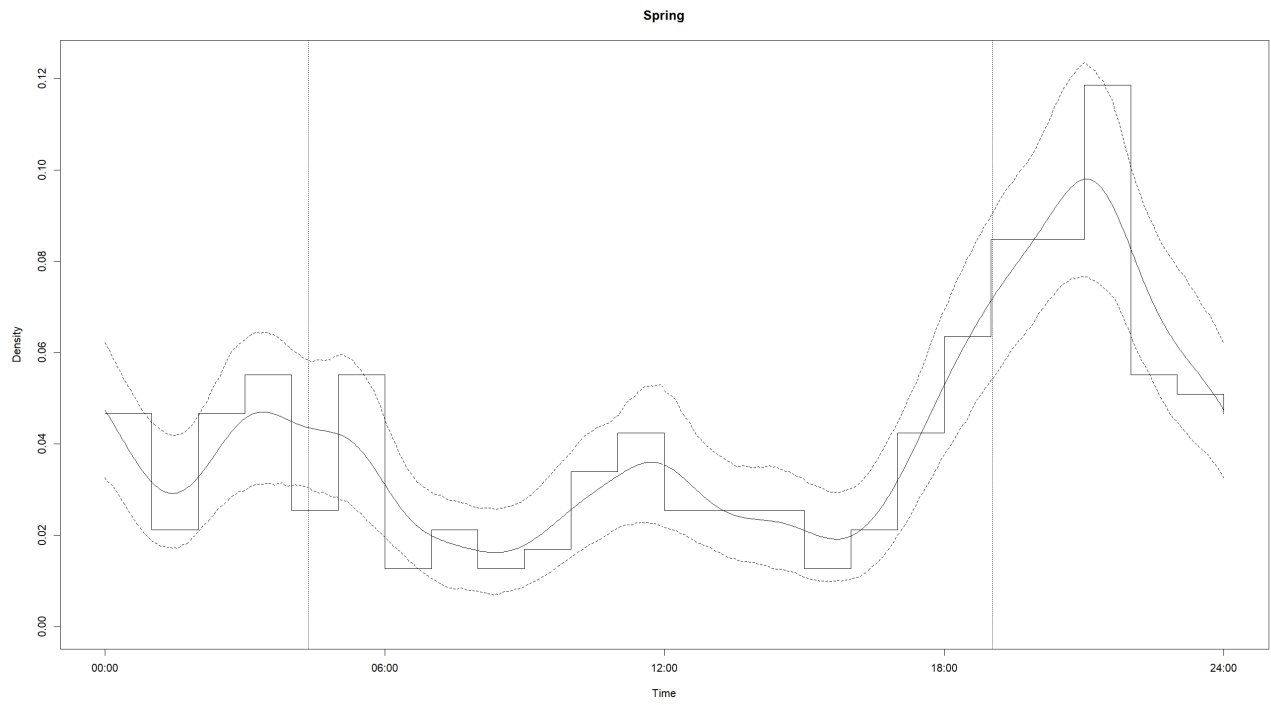
TABLE S4

Contrast	Estimate	Std_Error	DF	t_ratio	P_value
spring Wallow - summer Wallow	-0.07	0.40	135.23	-0.19	1.00
spring Wallow - autumn Wallow	-0.08	0.40	135.23	-0.21	1.00
spring Wallow - winter Wallow	0.61	0.41	136.95	1.49	0.92
spring Wallow - spring RubbingTree	0.05	0.48	201.96	0.11	1.00
spring Wallow - summer RubbingTree	0.39	0.50	200.55	0.78	1.00
spring Wallow - autumn RubbingTree	0.43	0.48	201.96	0.89	1.00
spring Wallow - winter RubbingTree	0.73	0.50	200.55	1.46	0.93
spring Wallow - summer Random	0.29	0.34	192.26	0.84	1.00
spring Wallow - autumn Random	0.82	0.36	199.73	2.25	0.47
spring Wallow - winter Random	0.74	0.37	199.62	2.01	0.64
summer Wallow - autumn Wallow	-0.01	0.39	133.75	-0.02	1.00
summer Wallow - winter Wallow	0.69	0.40	135.23	1.72	0.82
summer Wallow - spring RubbingTree	0.13	0.47	202.80	0.27	1.00
summer Wallow - summer RubbingTree	0.46	0.49	201.45	0.95	1.00
summer Wallow - autumn RubbingTree	0.50	0.47	202.80	1.07	0.99
summer Wallow - winter RubbingTree	0.80	0.49	201.45	1.64	0.86
summer Wallow - summer Random	0.36	0.33	194.58	1.10	0.99
summer Wallow - autumn Random	0.89	0.35	201.55	2.55	0.28
summer Wallow - winter Random	0.81	0.35	201.43	2.30	0.44
autumn Wallow - winter Wallow	0.70	0.40	135.23	1.74	0.81
autumn Wallow - spring RubbingTree	0.14	0.47	202.80	0.29	1.00
autumn Wallow - summer RubbingTree	0.47	0.49	201.45	0.97	1.00
autumn Wallow - autumn RubbingTree	0.51	0.47	202.80	1.08	0.99
autumn Wallow - winter RubbingTree	0.81	0.49	201.45	1.66	0.86
autumn Wallow - summer Random	0.37	0.33	194.58	1.13	0.99
autumn Wallow - autumn Random	0.90	0.35	201.55	2.58	0.27
autumn Wallow - winter Random	0.82	0.35	201.43	2.33	0.42

winter Wallow - spring RubbingTree	-0.56	0.48	201.96	-1.16	0.99
winter Wallow - summer RubbingTree	-0.22	0.50	200.55	-0.45	1.00
winter Wallow - autumn RubbingTree	-0.18	0.48	201.96	-0.38	1.00
winter Wallow - winter RubbingTree	0.11	0.50	200.55	0.23	1.00
winter Wallow - summer Random	-0.33	0.34	192.26	-0.96	1.00
winter Wallow - autumn Random	0.21	0.36	199.73	0.57	1.00
winter Wallow - winter Random	0.12	0.37	199.62	0.34	1.00
spring RubbingTree - summer RubbingTree	0.34	0.45	135.63	0.75	1.00
spring RubbingTree - autumn RubbingTree	0.38	0.43	133.75	0.87	1.00
spring RubbingTree - winter RubbingTree	0.67	0.45	135.63	1.50	0.92
spring RubbingTree - summer Random	0.23	0.36	196.58	0.64	1.00
spring RubbingTree - autumn Random	0.77	0.39	203.30	1.98	0.66
spring RubbingTree - winter Random	0.68	0.39	203.25	1.76	0.80
summer RubbingTree - autumn RubbingTree	0.04	0.45	135.63	0.09	1.00
summer RubbingTree - winter RubbingTree	0.34	0.47	137.90	0.72	1.00
summer RubbingTree - summer Random	-0.10	0.38	193.63	-0.27	1.00
summer RubbingTree - autumn Random	0.43	0.41	201.38	1.06	0.99
summer RubbingTree - winter Random	0.35	0.41	201.34	0.85	1.00
autumn RubbingTree - winter RubbingTree	0.30	0.45	135.63	0.66	1.00
autumn RubbingTree - summer Random	-0.14	0.36	196.58	-0.39	1.00
autumn RubbingTree - autumn Random	0.39	0.39	203.30	1.01	1.00
autumn RubbingTree - winter Random	0.31	0.39	203.25	0.79	1.00
winter RubbingTree - summer Random	-0.44	0.38	193.63	-1.15	0.99
winter RubbingTree - autumn Random	0.09	0.41	201.38	0.23	1.00
winter RubbingTree - winter Random	0.01	0.41	201.34	0.02	1.00
summer Random - autumn Random	0.53	0.18	172.06	2.92	0.12
summer Random - winter Random	0.45	0.19	173.11	2.42	0.36
autumn Random - winter Random	-0.08	0.20	138.09	-0.42	1.00

FIGURES S5-S10

S5



S6



S7



S8



S9



S10

