ELECTRONIC SUPPLEMENTARY MATERIAL

PLANT ECOLOGY

Long-term post-fire dynamics of co-occurring woody species in *Pinus brutia* forests: the role of regeneration mode

Çağatay Tavşanoğlu[1,2] & Behzat Gürkan[3]
[1] Corresponding author, ctavsan@hacettepe.edu.tr, tel: +903122976770, fax: +903122992028
[2] Division of Ecology, Department of Biology, Hacettepe University, Beytepe 06800 Ankara, Turkey
[3] Institute of Natural Sciences, Yaşar University, İzmir, Turkey
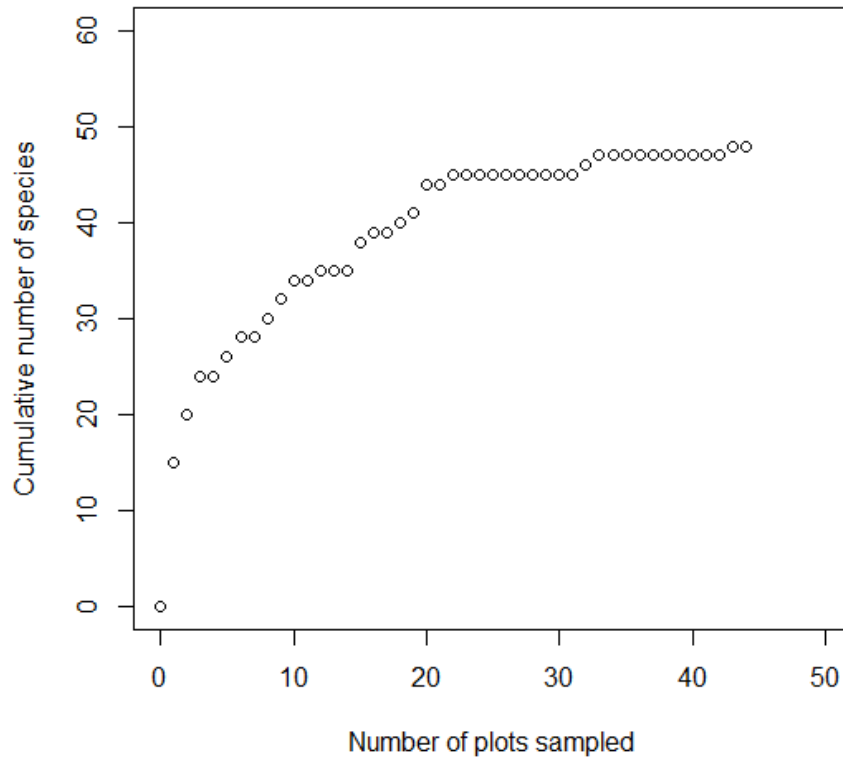
Figure S1. Cumulative species number – plot number graph based on randomly selected plot data.

Table S1. The list of the taxa considered in the study. LF is Raunkiaer's life form (Ph: Phanerophyte, Ch: Chamaephyte), P is propagule

persistence (+ is propagule-persister, - is propagule-non-persister), R is resprouting ability (+ is resprouter, - is non-resprouter), RM is

regeneration mode (R: obligate resprouter [R+P-], S: obligate seeder [R-P+], FR: facultative resprouter [R+P+], and none [R-P-]), and SB is seed

bank formation (soil: soil seed bank, can: canopy seed bank, none: no persistent seed bank).

Code	Taxon	Family	LF	P	R	RM	SB
A_andr	*Arbutus andrachne* L.	Ericaceae	Ph	-	+	R	none
A_brev	*Asperula brevifolia* Vent.	Rubiaceae	Ch	-	-	none	none
As_aph	*Asparagus aphyllus* L. ssp. *orientalis* (Baker) P.H.Davis	Asparagaceae	Ch	-	+	R	none
C_cre	*Cistus creticus* L.	Cistaceae	Ph	+	-	S	soil
C_sal	*Cistus salviifolius* L.	Cistaceae	Ph	+	-	S	soil
C_siliq	*Ceratonia siliqua* L.	Fabaceae	Ph	-	+	R	none
Ca_vil	*Calicotome villosa* (Poiret) Link	Fabaceae	Ph	+	+	FR	soil
Ce_aus	*Centaurea austro-anatolica* Hub.-Mor.	Asteraceae	Ch	+	+	FR	none
Co_cog	*Cotinus coggyria* Scop.	Anacardiaceae	Ph			R	none
Cy_pse	*Cytisopsis pseudocytisus* (Boiss.) Fertig ssp. *reeseana* (Guyot) Lassen	Fabaceae	Ch	+	-	S	soil
D_ser	*Daphne sericea* Vahl.	Thymelaeaceae	Ph	-	+	R	none
D_vis	*Dittrichia viscosa* (L.) Greuter	Asteraceae	Ch	+	+	FR	soil
E_aca	*Euphorbia acanthothamnos* Heldr. & Sart. ex Boiss.	Euphorbiaceae	Ch	+	+	FR	soil
E_man	*Erica manipuliflora* Salisb.	Ericaceae	Ph	+	+	FR	soil
G_acan	*Genista acanthoclada* DC.	Fabaceae	Ph	+	+	FR	soil
G_can	*Galium canum* Req. ex DC ssp. *ovatum* Ehrend.	Rubiaceae	Ch	-	-	none	none

H_emp	*Hypericum empetrifolium* Willd.	Hypericaceae	Ch	+	+	FR	soil
H_ori	*Helichrysum orientale* (L.) DC	Asteraceae	Ch	-	-	none	none
L_nob	*Laurus nobilis* L.	Lauraceae	Ph	-	+	R	none
L_ori	*Liquidambar orientalis* Miller	Altingiaceae	Ph	-	+	R	none
L_stoe	*Lavandula stoechas* L. ssp. *stoechas*	Lamiaceae	Ch	+	-	S	soil
M_com	*Myrtus communis* L. ssp. *communis* Sibth&Sm.	Myrtaceae	Ph	-	+	R	none
O_alb	*Osyris alba* L.	Santalaceae	Ch	-	+	R	none
O_eur	*Olea europea* L.	Oleaceae	Ph	-	+	R	none
O_oni	*Origanum onites* L.	Lamiaceae	Ch	+	+	FR	soil
P_bou	*Phlomis bourgaei* Boiss.	Lamiaceae	Ch	+	+	FR	soil
P_bru	*Pinus brutia* Ten.	Pinaceae	Ph	+	-	S	can
P_lat	*Phillyrea latifolia* L.	Oleaceae	Ph	-	+	R	none
P_lent	*Pistacia lentiscus* L.	Anacardiaceae	Ph	-	+	R	none
P_lyc	*Phlomis lycia* D. Don.	Lamiaceae	Ch	+	+	FR	soil
P_tere	*Pistacia terebinthus* L. ssp. *palaestina* (Boiss.) Engler	Anacardiaceae	Ph	-	+	R	none
Pt_cha	*Ptilostemon chamaepeuce* (L.) Less.	Asteraceae	Ph	+	+	FR	none
Q_auc	*Quercus aucheri* Jaub.&Spach	Fagaceae	Ph	-	+	R	none
Q_coc	*Quercus coccifera* L.	Fagaceae	Ph	-	+	R	none
Q_inf	*Quercus infectoria* Olivier ssp. *boissieri* (Reuter) O. Schwarz	Fagaceae	Ph	-	+	R	none
R_acu	*Ruscus aculeatus* L. var. *angustifolius* Boiss.	Asparagaceae	Ch	-	+	R	none
R_san	*Rubus sanctus* Schreber	Rosaceae	Ch	-	+	R	none
Rh_ole	*Rhamnus oleoides* L. ssp. *graecus* (Boiss. & Reut.) Holmboe	Rhamnaceae	Ph	-	+	R	none
Rh_pyr	*Rhamnus pyrellus* O. Schwarz	Rhamnaceae	Ch	-	+	R	none
S_asp	*Smilax aspera* L.	Smilacaceae	Ph	-	+	R	none
S_jun	*Spartium junceum* L.	Fabaceae	Ph	+	+	FR	soil
S_off	*Styrax officinalis* L.	Styracaceae	Ph	-	+	R	none
S_spi	*Sarcopoterium spinosum* (L.) Spach	Rosaceae	Ch	+	+	FR	soil

S_thy	*Satureja thymbra* L.	Lamiaceae	Ch	+	-	S	soil
S_tun	*Silene tunicoides* Boiss.	Caryophyllaceae	Ch	+	+	FR	none
T_div	*Teucrium divaricatum* Sieber ssp. *divaricatum* Rech.	Lamiaceae	Ch	+	+	FR	soil
T_pol	*Teucrium polium* L.	Lamiaceae	Ch	+	+	FR	soil
T_prae	*Tanacetum praeteritum* (Horwood) Heywood ssp. *praeteritum*	Asteraceae	Ch	-	+	R	none

Table S2. Mean cover (%) of the woody species recorded in the study sites representing different post-fire ages. Taxa codes are given **Table S1**. Standard error of the mean is given in brackets.

Taxon	Post-fire year								
	3	**6**	**8**	**9**	**10**	**16**	**26**	**50**	**100**
A_andr	2.1	0.3	0.6	5.6	1.5	0.5	6.0	2.1	6.3
	(1.4)	(0.2)	(0.6)	(4.9)	(1.1)	(0.3)	(2.8)	(0.5)	(3.0)
A_brev	0	0	0	0	0	0.1	0	0	0
						(0.1)			
As_aph	0.4	0.4	0.5	0.5	0.4	0.7	2.0	2.3	2.5
	(0.1)	(0.1)	(0.3)	(0.1)	(0.3)	(0.3)	(1.0)	(0.6)	(0.9)
C_cre	3.0	19.3	6.8	9.3	10.3	1.7	1.8	0.5	3.2
	(0.9)	(7.5)	(2.5)	(3.6)	(3.9)	(0.8)	(0.8)	(0.4)	(1.7)
C_sal	25.9	27.2	34.8	40.4	30.9	20.5	23.0	4.4	4.7
	(3.0)	(12.1)	(2.5)	(3.2)	(3.9)	(6.1)	(3.8)	(1.4)	(1.1)
C_siliq	0	0.7	0	0	0	0	0	0	0.1
		(0.7)							(0.1)
Ca_vil	0.4	12.4	6.1	2.0	2.2	0.5	1.6	0.2	0
	(0.4)	(2.4)	(3.0)	(1.1)	(1.3)	(0.4)	(0.5)	(0.1)	
Ce_aus	0.3	0.2	0.7	0	0.7	0	0.3	0	0
	(0.2)	(0.2)	(0.6)		(0.6)		(0.2)		
Co_cog	0.2	0	0	0.7	0	0	0	0	0
	(0.2)			(0.5)					
Cy_pse	2.3	1.3	0.7	3.3	1.2	10.0	0.4	0.5	0
	(1.8)	(1.3)	(0.4)	(1.9)	(1.2)	(3.7)	(0.4)	(0.3)	
D_ser	0	0	0	0	0	0.1	0	0	0
						(0.1)			
D_vis	0.2	0.2	0	0	0.4	0	0	0	0
	(0.1)	(0.1)			(0.2)				
E_aca	0	0	0	0	0	0.1	0	0	0
						(0.1)			
E_man	0.4	0.1	0	3.1	0.7	14.4	8.0	12.8	1.7
	(0.2)	(0.1)		(2.3)	(0.5)	(6.8)	(2.5)	(3.5)	(1.1)
G_acan	0.6	3.8	5.6	6.2	10.0	4.9	8.7	2.1	0.6
	(0.2)	(1.5)	(2.5)	(4.6)	(3.6)	(1.4)	(4.0)	(1.1)	(0.6)
G_can	0	0	0	0.3	0	0	0	0	0
				(0.3)					
H_emp	0	0	0.1	0	0	0	0	0	0
			(0.1)						
H_ori	0	0	0	0.1	0.8	0.1	2.0	0.5	0
				(0.1)	(0.5)	(0.1)	(1.1)	(0.3)	
L_nob	0	0	0	0	0	0	0	20.5	0.2
								(5.8)	(0.2)
L_ori	0	0	0	0	0.6	0	0	0.5	1.2
					(0.6)			(0.3)	(1.2)
L_stoe	1.1	0.1	2.7	1.6	0.3	1.2	0.1	0	0.5
	(0.5)	(0.1)	(1.1)	(0.8)	(0.2)	(0.5)	(0.1)		(0.4)

M_com	0	1.9 (1.6)	0.6 (0.6)	1.5 (1.1)	3.8 (3.0)	0.6 (0.4)	2.1 (2.1)	14.7 (6.3)	19.3 (7.9)
O_alb	0	0	0	0	0	0	0	0.1 (0.1)	0
O_eur	0	1.6 (1.6)	0.1 (0.1)	0	0	0	1.2 (0.5)	0	0.1 (0.1)
O_oni	0	0.5 (0.3)	1.2 (0.8)	0.1 (0.1)	0.1 (0.1)	0	0	0	1.0 (1.0)
P_bou	0.3 (0.2)	0	0	0	0	0	0	0	0
P_bru	0.6 (0.2)	2.3 (1.0)	1.6 (0.8)	4.7 (1.0)	7.8 (3.4)	12.9 (2.9)	9.4 (5.4)	61.1 (7.7)	80.9 (5.6)
P_lat	9.0 (2.5)	6.7 (2.8)	4.2 (2.2)	4.1 (2.1)	11.3 (2.1)	6.3 (1.5)	15.6 (4.6)	26.8 (1.7)	13.9 (5.2)
P_lent	0	1.8 (1.6)	0.1 (0.1)	0.7 (0.5)	0	0	1.7 (1.7)	0	6.6 (6.6)
P_lyc	0	0.5 (0.4)	0	0	0.1 (0.1)	0	0.3 (0.3)	0.3 (0.2)	0.3 (0.2)
P_tere	1.3 (0.3)	1.7 (0.6)	1.8 (0.6)	1.2 (0.3)	1.6 (0.3)	1.1 (0.8)	1.7 (0.4)	6.5 (1.4)	3.3 (1.8)
Pt_cha	0	0.1 (0.1)	0.1 (0.1)	0	2.1 (0.8)	0	12.1 (3.4)	4.8 (1.6)	0
Q_auc	0	0	0.1 (0.1)	0.3 (0.2)	0	0	0	0	0
Q_coc	0	5.7 (2.7)	0.6 (0.4)	1.9 (1.1)	0.1 (0.1)	0	1.4 (0.7)	0.3 (0.2)	3.7 (1.4)
Q_inf	1.6 (0.7)	5.6 (3.1)	3.3 (1.2)	3.8 (3.0)	6.1 (1.7)	1.7 (0.8)	4.5 (1.7)	10.0 (2.9)	19.7 (12.2)
R_acu	0	0.3 (0.3)	0	0	0	0	0	1.0 (0.6)	0.7 (0.5)
R_san	0	0	0.1 (0.1)	0.1 (0.1)	0.2 (0.1)	0	0.3 (0.3)	0	0
Rh_ole	0	0	0	0.1 (0.1)	0	0.3 (0.1)	0.1 (0.1)	0	0
Rh_pyr	0.1 (0.1)	0	0	0	0	0	0	0	0
S_asp	1.2 (0.7)	2.8 (1.6)	1.3 (1.0)	1.0 (0.5)	2.9 (1.3)	0.7 (0.2)	4.1 (2.3)	31.5 (7.9)	15.4 (3.8)
S_jun	0	0.2 (0.1)	0.1 (0.1)	0	0.3 (0.3)	0	0	0.5 (0.5)	0
S_off	0	0.8 (0.4)	0.1 (0.1)	0	0.4 (0.4)	0	0.2 (0.1)	2.2 (1.1)	3.4 (2.0)
S_spi	0.5 (0.3)	2.1 (2.1)	11.8 (3.6)	0.2 (0.2)	0.9 (0.6)	6.1 (1.3)	0.6 (0.3)	0	0.1 (0.1)
S_thy	0	0	0.1 (0.1)	0	0	0	0	0	0
S_tun	0	0	0	0.4 (0.3)	0.8 (0.5)	0	0	0	0
T_div	0	0.1	0	0	0.4	0	0.2	0	0

	1	2	3	4	5	6	7	8	9
		(0.1)			(0.3)		(0.1)		
T_pol	0.1 (0.1)	0	0	0	0	0.1 (0.1)	0	0.5 (0.5)	0
T_prae	0	0	0	0.1 (0.1)	0.1 (0.1)	0	0	0.1 (0.1)	0