

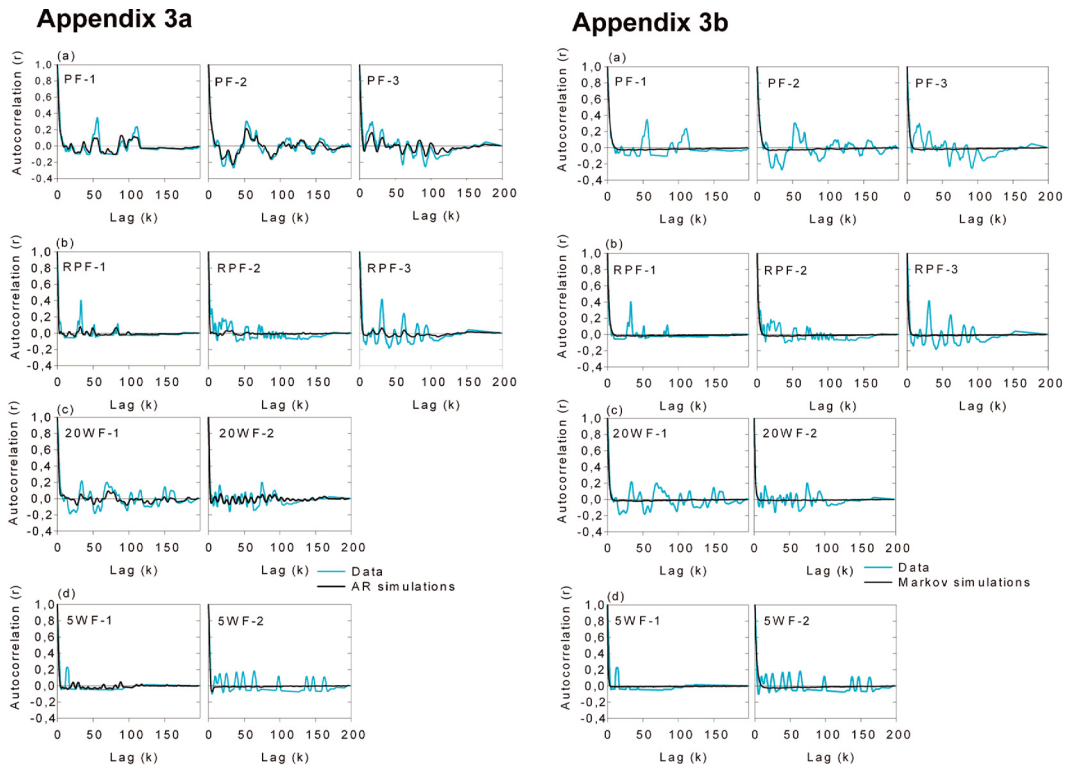
Online Material



Appendix 1. Plot managed by prescribed burning on the Railleu study site.

Appendix 2. Parameters and adjusted- R^2 for AR models and effective sample size (n') calculated from both AR and Markov models. All AR models were highly significant (p -value < 0.001). Model parameters significance was indicated by: (***) $p < 0.001$; (**) $p < 0.01$; (*) $p < 0.05$; (n.s.) $p > 0.05$. Initial sample size (n) was 1000 in all the transects.

Transect code	AR model parameters				AdjR ²	n'	
	α_1	α_2	φ_1	φ_2		AR	Markov
PF-1	0.698***	-0.390***	0.198***	0.042*	0.75	410	440
PF-2	0.569***	-0.226**	0.380***	-0.092 ^{n.s.}	0.79	600	475
PF-3	0.669***	-0.238**	0.322***	-0.117*	0.77	350	345
RPF-1	0.648***	-0.401***	0.146***	0.047 ^{n.s.}	0.54	750	565
RPF-2	0.611***	-0.237**	0.149*	0.049 ^{n.s.}	0.51	925	725
RPF-3	0.885***	-0.282**	0.107*	-0.002 ^{n.s.}	0.72	890	495
20 WF-1	0.828***	-0.281***	0.159***	-0.011 ^{n.s.}	0.77	385	790
20 WF-2	0.756***	-0.326***	0.193***	-0.032 ^{n.s.}	0.59	1450	875
5 WF-1	0.596***	-0.136*	0.198***	-0.056*	0.59	1525	1580
5 WF-2	1.164***	-0.471***	0.049 ^{n.s.}	-0.022 ^{n.s.}	0.75	1020	565



Appendix 3. Correlograms for real data and AR model simulations for each transect (3a) and correlograms for real data and Markov model simulations for each transect (3b). For both figures: (a) prescribed burning; (b) repeated prescribed burning; (c) wildfire in 20-year-old shrubs and (d) wildfire in 5-year-old shrubs.

Appendix 4. Join count statistics for each transect (J_{BB} , J_{WW} and J_{WB} , J_{BB} was divided in three categories: J_{22} , J_{21} and J_{11}). The expected (Exp) and observed (Obs) values are based on rook moves. Join count statistics are significant when z values $> |-1.96|$. Z values are indicated in parentheses below each observed value.

Transect code	J_{BB}						J_{WW}		J_{WB}	
	J_{22}		J_{21}		J_{11}		Obs	Exp	Obs	Exp
	Obs (z values)	Exp	Obs (z values)	Exp	Obs (z values)	Exp	Obs (z values)	Exp	Obs (z values)	Exp
PF-1	145 (31.4)	19.6	55 (10.8)	15.5	21 (10.9)	2.9	1 493 (25.9)	1 308.9	81 (-32.6)	448.1
PF-2	339 (29.5)	104.8	141 (7.8)	80.9	37 (6.0)	15.4	1 091 (27.9)	793.4	187 (-32.3)	800.6
PF-3	359 (30.9)	110.1	113 (5.0)	75.7	37 (7.3)	12.8	1 094 (27.8)	798.2	202 (-32.0)	798.2
RPF-1	54 (24.8)	4.4	41 (14.4)	6.3	17 (10.5)	2.1	1 602 (19.1)	1 502.7	81 (-26.4)	279.5
RPF-2	122 (22.7)	23.6	83 (11.4)	27.7	21 (4.9)	7.9	1 373 (21.4)	1 200.8	196 (-25.7)	535.0
RPF-3	174 (25.0)	39.1	118 (11.9)	45.7	26 (3.9)	13.1	1 275 (24.3)	1 052.9	202 (-28.4)	644.1
20 WF-1	356 (28.9)	117.3	114 (4.1)	82.8	40 (7.4)	14.4	1 059 (27.1)	767.3	226 (-30.4)	813.2
20 WF-2	104 (21.4)	19.2	100 (13.5)	31.0	37 (7.7)	12.2	1 355 (20.7)	1 186.2	199 (-25.9)	546.3
5 WF-1	49 (23.9)	3.9	36 (14.6)	4.9	11 (8.11)	1.5	1 620 (18.0)	1 532.4	79 (-25.1)	252.4
5 WF-2	50 (27.7)	3.1	43 (15.9)	5.9	21 (11.7)	2.7	1 599 (16.4)	1 515.9	82 (-25.6)	267.5