

Online Resource 8

Journal: Oecologia

Title: Microclimatic conditions mediate the effect of deadwood and forest characteristics on a threatened beetle species, *Tragosoma depsarium*

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Online Resource 8 Plausible candidate models ($\Delta\text{AICc} < 2$) explaining (1) average temperature; (2) temperature fluctuations and (4) mean moisture in (a) autumn, (b) winter, (c) spring and (d) summer, and (3) temperature extremes in (a) winter and (b) summer, in relation to forest characteristics. *Site* as a random factor is included in all models of temperature variables.). For *vegetation type*, the first category is taken as a reference. Sample size (N), intercept (Int.), number of parameters (k), model weight (w_i), *marginal* R^2 (R^2_m), *conditional* R^2 (R^2_c), and *adjusted* R^2 (R^2_{adj}) are presented

	N	Int.	canopy	basal area	veget. type	k	LogLik	ΔAICc	w_i	R^2_m	R^2_c	R^2_{adj}
1. Average temperature												
a) autumn	76	5.67				3	-46.9	0.00	0.69	0	0	
		5.76			-0.203	4	-46.5	1.58	0.31	0.06	0.08	
b) winter	77	1.13		0.042		4	-46.1	0.00	1.00	0.51	0.62	
c) spring	77	5.94				3	-117.4	0.00	0.52	0.08	0.09	
		6.11			-0.384	4	-116.9	1.25	0.28	0.10	0.10	
		4.55	0.025			4	-117.2	1.89	0.20	0.18	0.18	
d) summer	77	13.44	0.044			4	-106.6	0.00	0.72	0.41	0.43	
		13.73	0.041		-0.288	5	-106.4	1.91	0.28	0.42	0.44	
2. Temperature fluctuations												
a) autumn	76	1.65	0.026			4	-96.7	0.00	1.00	0.23	0.24	
b) winter	77	1.30		0.029		4	-77.7	0.00	0.46	0.19	0.22	
		1.66				3	-79.2	0.75	0.31	0.07	0.08	
		1.52			0.330	4	-78.4	1.35	0.23	0.1	0.12	
c) spring	77	3.75	0.081			4	-176.8	0.00	0.51	0.26	0.27	
		3.06	0.088		0.704	5	-175.7	0.09	0.49	0.28	0.28	
d) summer	77	2.44	0.104			4	-183.6	0.00	0.66	0.33	0.33	
		2.36	0.105		0.066	5	-183.1	1.30	0.34	0.33	0.33	
3. Temperature extremes												
a) min in	77	1.74	-0.016			4	-43.2	0.00	0.51	0.34	0.46	
winter		0.50		0.028		4	-43.2	0.08	0.49	0.33	0.44	
b) max in	77	14.57	0.101			4	-164.7	0.00	0.68	0.43	0.44	
summer		14.87	0.098		-0.302	5	-164.3	1.50	0.32	0.44	0.44	
4. Mean moisture												
a) autumn	76	102.00				2	-2875.7	0.00	0.56			0.00
		103.17	-48.67			3	-2875.4	1.73	0.23			-0.01
		102.31		-49.62		3	-2875.6	1.97	0.21			-0.01
b) winter	77	100.53			67.40	3	-1595.0	0.00	0.31			0.02
		101.86				2	-1596.1	0.02	0.31			0.00
		100.08		34.79		3	-1595.2	0.50	0.25			0.01
		99.74		31.36	63.53	4	-1594.7	1.71	0.13			0.01
c) spring	77	98.44		35.89		3	-1597.7	0.00	0.44			0.02
		100.54				2	-1599.0	0.43	0.36			0.00
		99.69			61.02	3	-1598.5	1.59	0.20			<0.01

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	N	Int.	canopy	basal area	veget. type	k	LogLik	ΔAICc	w_i	R^2_m	R^2_c	R^2_{adj}
d) summer	77	92.02			60.81	3	-1193.1	0.00	0.26			0.04
		90.98		25.74		3	-1193.3	0.51	0.20			0.03
		90.38		22.80	55.61	4	-1192.5	1.06	0.15			0.04
		97.27	-18.76		57.27	4	-1192.6	1.25	0.14			0.04
		101.26	-21.22			3	-1193.7	1.27	0.14			0.02
		94.42				2	-1195.0	1.69	0.11			0.00