

[10.1071/WR22127](https://doi.org/10.1071/WR22127)

*Wildlife Research*

### **Supplementary Material**

#### **Spatial ecology of invasive Bennett's wallaby in South Island, New Zealand**

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**Table S1. Standardised parameter estimates ( $\beta$ ) and standard errors (SE) for interaction terms between landscape variables and four harmonics of time of day included in a model describing resource selection by Bennett's wallaby (*Notamacropus rufogriseus*) at three study sites in South Canterbury, South Island, New Zealand, 2018–2019.**

Variable	1. Glen Cary		2. Blue Cliffs		3. Grampians	
	$\beta$	SE	$\beta$	SE	$\beta$	SE
D cover * $s_1$	0.0456	0.0535	0.0063	0.0035	-0.0040	0.0017
D cover * $s_2$	0.0494	0.0419	-0.0002	0.0029	0.0056	0.0017
D cover * $c_1$	0.7401	0.3335	0.0120	0.0029	0.0010	0.0015
D cover * $c_2$	-0.2899	0.1254	0.0056	0.0030	0.0030	0.0015
D ridgeline * $s_1$	-0.0073	0.0071	0.0037	0.0022	-0.0007	0.0005
D ridgeline * $s_2$	0.0028	0.0074	0.0021	0.0022	-0.0004	0.0005
D ridgeline * $c_1$	-0.0142	0.0080	0.0106	0.0023	0.0015	0.0005
D ridgeline * $c_2$	-0.0043	0.0074	-0.0015	0.0022	0.0002	0.0005
D stream * $s_1$	-0.0026	0.0013	0.0001	0.0004	-0.0002	0.0003
D stream * $s_2$	-0.0022	0.0014	0.0001	0.0004	0.0012	0.0003
D stream * $c_1$	0.0102	0.0015	-0.0021	0.0004	0.0005	0.0003
D stream * $c_2$	-0.0013	0.0014	-0.0004	0.0004	0.0004	0.0003

D = distance to feature, in metres;  $s_1 = \sin(2\pi t/24)$ ;  $s_2 = \sin(4\pi t/24)$ ;  $c_1 = \cos(2\pi t/24)$ ;  $c_2 = \cos(4\pi t/24)$ .