

Supplementary Material

Increasing fire severity negatively affects greater glider density

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Appendix 1. Site characteristics recorded during ground-truthing each transect at site.

Topography refers to the topographic positioning of a site, divided into flat, gully, midslope, and ridgetop. Slope class refers to average slope recorded at transects and was classed into three levels; (1) 0-20°; (2) 20-40°; (3) > 40°. The transect elevation refers to the averaged elevation per transect. Vegetation types were categorised as either dry sclerophyll (DS) or wet sclerophyll (WS). Number of suitable hollows were counted from within 50m of either side of transects, and were hollows >15 cm in diameter based off greater gliders hollow entrance size preferences from Goldingay (2012). Dominant tree species was determined using both plant community type (PCT) records and separate vegetation surveys undertaken at sites

Fire severity class	Site	Transect number	Topography	Slope class	Elevation (m.a.s.l)	Vegetation type	Fires since 1980	Suitable hollows	Dominant tree species
Low	BTC11	1	Midslope	2	196.5	DS	4	9	<i>C. gummifera</i>
Low	BTC11	2	Midslope	2	198.5	DS	4	10	<i>C. gummifera</i>
Low	BTC16	1	Gully	1	690.5	WS	1	10	<i>E. fastigata</i>
Low	BTC16	2	Gully	1	699.5	WS	1	21	<i>E. fastigata</i>
Low	BTC25	1	Gully	3	791.5	WS	4	21	<i>E. cypellocarpa</i>
Low	BTC25	2	Midslope	3	807.5	DS	4	20	<i>E. cypellocarpa</i>
Low	BTC40	1	Midslope	2	1011	WS	1	19	<i>E. fraxinodes</i>
Low	BTC40	2	Midslope	2	1030.5	WS	1	18	<i>E. fraxinodes</i>
Low	P5	1	Ridgetop	3	176.5	DS	3	9	<i>C. gummifera</i>
Low	P5	2	Ridgetop	3	181.5	DS	3	12	<i>C. gummifera</i>
Moderate	BTC06	1	Ridgetop	1	213.5	WS	5	3	<i>E. sieberi</i>
Moderate	BTC06	2	Gully	1	177.5	WS	5	12	<i>E. sieberi</i>
Moderate	BTC20	1	Gully	2	797	DS	2	11	<i>E. fastigata</i>
Moderate	BTC20	2	Gully	2	791.5	DS	2	15	<i>E. fastigata</i>
Moderate	BTC21	1	Gully	1	737	WS	3	4	<i>E. fastigata</i>
Moderate	BTC21	2	Gully	1	755.5	WS	3	4	<i>E. fastigata</i>
Moderate	CM20	1	Ridgetop	3	260.5	DS	4	11	<i>C. gummifera</i>
Moderate	CM20	2	Ridgetop	3	273.5	DS	4	6	<i>C. gummifera</i>
Moderate	P1	1	Flat	1	722.5	DS	2	10	<i>E. fastigata</i>
Moderate	P1	2	Flat	1	711	DS	2	15	<i>E. fastigata</i>
High	BTC13	1	Ridgetop	3	405	WS	3	10	<i>E. muelleriana</i>
High	BTC13	2	Ridgetop	3	335.5	WS	3	14	<i>E. muelleriana</i>
High	BTC17	1	Gully	2	765.5	WS	1	9	<i>E. fastigata</i>
High	BTC17	2	Gully	2	785	WS	1	7	<i>E. fastigata</i>
High	BTC24	1	Ridgetop	1	784	DS	2	1	<i>E. sieberi</i>
High	BTC24	2	Ridgetop	1	776.5	DS	2	0	<i>E. sieberi</i>
High	BTC35	1	Flat	1	298.5	WS	4	10	<i>C. gummifera</i>
High	BTC35	2	Flat	1	288	DS	4	10	<i>C. gummifera</i>
High	BTC37	1	Ridgetop	2	908.5	WS	1	17	<i>E. fastigata</i>
High	BTC37	2	Ridgetop	2	914	WS	1	15	<i>E. fastigata</i>