

Driscoll, D. A. 2007. The frequency of metapopulations, metacommunities and nestedness in a fragmented landscape. – *Oikos* 117: 297–309

Appendix 1. Characteristics of the forty species occurring at all locations and nine or more sites. Asterisks beside Mean frequency values indicate species with occurrence $\leq 1/3$ in Close, Dense and Connected sites, used for tests of a Neutral model prediction. Matrix occurrences indicates the number of matrix sites each species was found in, and p (Fisher's exact), gives the p value from a Fisher's exact test comparing the number of occurrences in *Eucalyptus* sites with occurrences in matrix sites. Response groups include; distance: declined with distance; inverse: increased with distance; vegetation (veg): presence related to differences in vegetation; interaction: similar occurrence in the most and least isolated sites, but different occurrence at intermediate levels of isolation; none: no response to distance or vegetation detected. When response was explained by vegetation (veg) and a spatial parameter, both responses are indicated with the response explaining most variation indicated first. Metapopulation outcomes include : a, unlikely to form a metapopulation due to presence in matrix; a* as for a, but reduced frequency in less isolated sites; b, ubiquitous and does not form a metapopulation; c, low dispersal so not a metapopulation; d, mainland-island or classic metapopulation; e, deterministic metapopulation based on exclusion from close and large sites; f, deterministic metapopulation based on different occurrence rate at intermediate levels of isolation; g, deterministic metapopulation based on habitat quality; h, indeterminate.

Family	Species	Wings present	Mean frequency	Matrix occurrences	p (Fisher's exact)	Response group	Metapop outcome
Scydmaenidae	<i>Euconnus</i> sp. D	no	0.36	2	0.7086	none	a
Scirtidae	<i>Macrohelodes crassus</i>	yes	0.48	2	0.1718	none	a
Byrrhidae	<i>Microchaetes scoparius</i>	yes	*0.19	4	0.1048	none	a
Mordellidae	<i>Mordella</i> sp. D	yes	*0.22	1	0.6719	none	a
Scirtidae	Scirtidae sp. A	yes	0.74	8	0.6751	none	a
Carabidae	<i>Scopodes</i> sp. A	yes	0.74	7	1.0000	none	a
Staphylinidae	<i>Baeocera</i> sp. A	yes	0.66	3	0.0798	inverse/veg	a*
Pselaphidae	Pselaphidae sp. I	no	0.78	4	0.0514	inverse	a*
Pselaphidae	<i>Palimboldus victoriae</i>	yes	0.95	2	0.0000	none	b
Nitidulidae	<i>Thalycrodes cylindricus</i>	yes	0.97	0	0.0000	inverse	b
Nitidulidae	<i>Thalycrodes</i> sp. A	yes	0.93	1	0.0000	vegetation	b
Curculionidae	Curculionidae sp. AC	no	*0.16	0	0.3434	distance	c
Curculionidae	Curculionidae sp. K	no	*0.17	0	0.3353	distance	c
Curculionidae	<i>Decilais</i> sp. A	no	*0.19	0	0.3362	distance	c
Byrrhidae	<i>Microchaetes hystricosus</i>	yes	*0.19	0	0.3362	distance	c
Carabidae	<i>Chylmus ater</i>	no	0.40	0	0.0225	distance	d
Lucanidae	<i>Lissotes rodwayi</i>	no	0.64	1	0.0079	distance	d
Leiodidae	<i>Myrmecholeva acutifrons</i>	yes	0.40	0	0.0225	distance	d
Chrysomelidae	Galerucinae sp. A	yes	*0.33	0	0.0516	inverse	e
Chrysomelidae	Galerucinae sp. B	yes	*0.24	0	0.1863	inverse	e
Pselaphidae	<i>Rybaxis</i> sp. A	yes	0.60	0	0.0007	inverse	e
Scarabidae	<i>Heteronyx tasmanicus</i>	yes	0.33	0	0.0516	interaction	f
Lycidae	<i>Metriorhynchus atratus</i>	yes	*0.21	0	0.1959	interaction	f
Carabidae	<i>Sloaneana tasmaniae</i>	no	0.40	0	0.0225	interaction	f
Pselaphidae	<i>Tasmanityrus</i> sp. A	no	0.41	0	0.0213	interaction/veg	f/g
Chrysomelidae	<i>Eboo</i> sp. A	yes	0.31	0	0.0994	vegetation	g
Scydmaenidae	<i>Euconnus</i> sp. A	no	*0.33	0	0.0481	vegetation	g
Leiodidae	Leiodidae sp. D	yes	0.72	0	0.0000	vegetation	g
Leiodidae	Leiodidae sp. I	yes	*0.21	0	0.1959	vegetation	g
Phalacridae	Phalacridae sp. A	yes	0.40	0	0.0225	vegetation	g
Leiodidae	<i>Zeadolopus</i> sp. A	yes	*0.40	0	0.0225	vegetation	g
Carabidae	<i>Agonocheila curtula</i>	yes	*0.26	0	0.1908	none	h
Sphindidae	<i>Aspidiphorus humeralis</i>	yes	0.67	1	0.0022	none	h
Curculionidae	Curculionidae sp. C	no	0.29	0	0.0982	none	h
Eucnemidae	Eucnemidae sp. B	yes	0.45	0	0.0098	none	h
Latridiidae	Latridiidae sp. A	yes	0.43	0	0.0212	none	h
Leiodidae	Leiodidae sp. A	yes	0.52	0	0.0032	none	h
Byrrhidae	<i>Microchaetes</i> sp. A	yes	0.64	0	0.0003	none	h
Elateridae	near <i>Conoderus</i>	yes	0.59	0	0.0009	none	h
Scarabidae	<i>Telura vitticollis</i>	yes	0.47	0	0.0086	none	h