

parameter	mean	standard deviation	10%	90%
μ_i	-1.52	0.16	-1.73	-1.32
μ_r	-1.39	0.13	-1.55	-1.23
μ_v	-0.04	0.16	-0.24	0.11
μ_{v^2}	0.30	0.45	-0.07	0.97
μ_m	-0.07	0.08	-0.19	0.01
τ_i	0.77	0.14	0.61	0.95
τ_r	0.40	0.13	0.24	0.56
τ_v	1.05	0.23	0.79	1.35
τ_{v^2}	1.87	0.64	1.10	2.68
τ_m	0.24	0.13	0.07	0.40

Table 1: Group-level estimates of the intercept terms the effects of biological traits on brachiopod generic survival from equation 2. μ values are the location parameters of the effects, while τ values are the scale terms describing the variation between cohorts. The mean, standard deviation, 10th and 90th quantiles are presented for each estimate. The subscripts correspond to the following: i intercept, r geographic range, v environmental affinity, v^2 environmental affinity squared, m body size.