

Shannon interactions

Table 4.1. Summary of the effects of interactions with the Shannon index of farmland compositional heterogeneity on relationships between the species richness of different groups in (a) 2012 and (b) 2013. Figures show parameter estimates for the interaction term for the heterogeneity index \times each *predictor* on each *response*. Figures in bold are statistically significant at $P < 0.05$ and those in italics at $P < 0.1$.

(a)	Predictors					
Responses	Bees	Birds	Carabids	Plants	Spiders	Syrphids
Bees		-0.175	0.039	<i>-0.156</i>	0.054	-0.397
Birds	-0.322		-0.068	0.077	-0.046	0.148
Carabids	0.086	-0.182		<i>-0.340</i>	0.097	<i>0.177</i>
Plants	-0.395	0.136	<i>-0.102</i>		-0.003	-0.214
Spiders	0.000	0.002	-0.014	-0.030		-0.011
Syrphids	-0.699	0.182	0.056	-0.188	0.070	

(b)	Predictors					
Responses	Bees	Butterflies	Birds	Carabids	Plants	Syrphids
Bees		0.1125	0.0899	0.1565	-0.0052	0.0997
Butterflies	0.5877		0.0181	-0.1692	-0.1012	0.9097
Birds	-0.0488	0.0272		0.0934	0.0338	-0.0558
Carabids	0.3255	0.1750	0.1944		0.0256	-0.1958
Plants	0.3658	0.3384	0.5953	0.0102		0.0620
Syrphids	-0.1439	0.4239	0.0479	-0.1808	-0.0157	

Table 4.2. Summary of the effects of interactions with the Shannon index of farmland compositional heterogeneity on relationships between the Simpson's diversity of different groups in (a) 2012 and (b) 2013. Figures show parameter estimates for the interaction term for the heterogeneity index \times each *predictor* on each *response*. Figures in bold are statistically significant at $P < 0.05$ and those in italics at $P < 0.1$.

(a)	Predictors					
Responses	Bees	Birds	Carabids	Plants	Spiders	Syrphids
Bees		-0.718	0.113	-0.118	<i>-0.698</i>	-1.709
Birds	-0.861		-0.522	0.503	-0.250	0.066
Carabids	0.631	-2.013		-0.516	-1.542	0.748
Plants	-1.141	0.854	-0.204		-1.446	0.260
Spiders	-1.116	-0.453	-0.730	<i>-2.083</i>		0.404
Syrphids	-2.501	-0.137	0.143	0.215	0.290	

(b)	Predictors					
Responses	Bees	Butterflies	Birds	Carabids	Plants	Syrphids
Bees		1.6285	1.2765	0.3015	0.2826	1.2700
Butterflies	5.0079		-0.4029	-0.9065	1.0974	6.5037
Birds	0.8819	0.6838		0.2396	0.0926	0.7081
Carabids	0.7381	0.6782	-1.1402		-0.8953	2.4312
Plants	0.1721	-1.9936	0.3866	2.0513		3.2517
Syrphids	0.2238	2.6283	1.2025	0.6097	0.5226	

Table 4.3. Summary of the effects of interactions with the Shannon index of farmland compositional heterogeneity on relationships between the total sampled abundance of different groups in (a) 2012 and (b) 2013. Figures show parameter estimates for the interaction term for the heterogeneity index \times each *predictor* on each *response*. Figures in bold are statistically significant at $P < 0.05$ and those in italics at $P < 0.1$.

(a)	Predictors					
Responses	Bees	Birds	Carabids	Plants	Spiders	Syrphids
Bees		-0.085	0.061	-0.004	-0.026	-0.226
Birds	-0.255		0.040	0.001	0.140	0.174
Carabids	-0.141	0.077		-0.003	-0.080	0.030
Plants	-0.811	0.015	-0.172		-0.042	-0.937
Spiders	-0.294	0.199	0.055	-0.007		-0.086
Syrphids	-0.101	0.040	0.055	-0.005	0.082	

(b)	Predictors					
Responses	Bees	Butterflies	Birds	Carabids	Plants	Syrphids
Bees		0.1330	-0.0309	-0.2323	0.0003	-0.0356
Butterflies	0.2448		-0.0012	0.5724	0.0339	0.1723
Birds	0.2328	0.3365		0.5298	-0.0717	-0.4718
Carabids	-0.1861	0.0791	-0.0473		0.0011	-0.2981
Plants	-0.0183	0.7414	0.0535	0.2506		0.0605
Syrphids	0.0904	0.1023	0.1384	-0.3880	0.0078	

Total boundary length interactions

Table 4.4. Summary of the effects of interactions with the Total length of agricultural boundaries (configurational heterogeneity) on relationships between the species richness of different groups in (a) 2012 and (b) 2013. Figures show parameter estimates for the interaction term for the heterogeneity index \times each *predictor* on each *response*. Figures in bold are statistically significant at $P < 0.05$ and those in italics at $P < 0.1$.

(a)	Predictors					
Responses	Bees	Birds	Carabids	Plants	Spiders	Syrphids
Bees		-0.001	0.001	0.003	0.000	<i>0.017</i>
Birds	-0.002		-0.008	0.001	0.000	<i>0.008</i>
Carabids	0.002	-0.002		-0.001	0.001	0.012
Plants	0.010	0.006	-0.005		0.001	0.018
Spiders	0.000	0.000	0.000	0.000		0.000
Syrphids	0.010	0.015	0.001	0.004	-0.001	

(b)	Predictors					
Responses	Bees	Butterflies	Birds	Carabids	Plants	Syrphids
Bees		-0.0054	-0.0045	-0.0028	0.0005	0.0069
Butterflies	-0.0219		0.0071	0.0158	0.0011	0.0075
Birds	-0.0072	0.0024		-0.0049	-0.0006	0.0071
Carabids	-0.0083	<i>0.0106</i>	-0.0014		0.0038	0.0025
Plants	-0.0023	0.0028	-0.0033	<i>0.0156</i>		0.0001
Syrphids	0.0289	0.0076	0.0097	0.0024	-0.0010	

Table 4.5. Summary of the effects of interactions with the Total length of agricultural boundaries (configurational heterogeneity) on relationships between the Simpson's diversity of different groups in (a) 2012 and (b) 2013. Figures show parameter estimates for the interaction term for the heterogeneity index \times each *predictor* on each *response*. Figures in bold are statistically significant at $P < 0.05$ and those in italics at $P < 0.1$.

(a)	Predictors					
Responses	Bees	Birds	Carabids	Plants	Spiders	Syrphids
Bees		-0.021	0.006	-0.016	-0.028	0.045
Birds	-0.021		-0.016	-0.013	-0.009	0.006
Carabids	-0.007	0.031		0.002	-0.072	0.035
Plants	-0.002	-0.031	0.058		0.011	-0.004
Spiders	-0.045	0.009	-0.080	0.002		-0.111
Syrphids	0.018	0.017	-0.006	-0.002	-0.077	

(b)	Predictors					
Responses	Bees	Butterflies	Birds	Carabids	Plants	Syrphids
Bees		-0.0279	0.0075	0.0126	-0.0123	<i>0.0612</i>
Butterflies	-0.0858		0.0113	0.0224	0.0203	0.0053
Birds	0.0085	0.0170		-0.0486	0.0441	-0.0222
Carabids	0.0424	0.0372	-0.0095		0.0489	0.0028
Plants	-0.0076	0.0355	0.0937	0.0337		-0.0574
Syrphids	0.0589	0.0041	-0.0199	-0.0014	-0.0064	

Table 4.6. Summary of the effects of interactions with the Total length of agricultural boundaries (configurational heterogeneity) on relationships between the total sampled abundance of different groups in (a) 2012 and (b) 2013. Figures show parameter estimates for the interaction term for the heterogeneity index \times each *predictor* on each *response*. Figures in bold are statistically significant at $P < 0.05$ and those in italics at $P < 0.1$.

(a)	Predictors					
Responses	Bees	Birds	Carabids	Plants	Spiders	Syrphids
Bees		0.001	-0.001	0.000	-0.012	0.008
Birds	0.001		-0.005	0.000	-0.005	0.006
Carabids	0.003	-0.001		0.000	-0.008	0.008
Plants	0.004	0.000	-0.015		-0.014	0.018
Spiders	-0.012	-0.003	-0.014	-0.001		-0.007
Syrphids	0.004	0.001	0.004	0.000	-0.022	

(b)	Predictors					
Responses	Bees	Butterflies	Birds	Carabids	Plants	Syrphids
Bees		-0.0007	-0.0001	-0.0014	0.0001	0.0020
Butterflies	-0.0043		0.0001	0.0058	-0.0001	-0.0078
Birds	0.0407	-0.0314		-0.0488	0.0005	0.0271
Carabids	-0.0022	0.0060	-0.0001		0.0000	0.0021
Plants	<i>0.0406</i>	-0.0139	-0.0015	-0.0108		0.0171
Syrphids	0.0015	0.0011	-0.0012	0.0034	0.0000	