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https://www.biodiversity-science.net/CN/10.17520/biods.2023048.

附录3　广义线性混合模型中对植物物种多样性和功能多样性有显著作用的景观格局指数。BLY: 4年前景观格局指数; LY: 2年前景观格局指数; C: 类型水平, 3为半固定沙丘, 4为流动沙丘, 5为固定沙丘, 6为低地, L为景观水平; 其他缩写含义见附录1。如C.PLAND.3即当前半固定沙丘景观百分比指数。* *P* < 0.05; ** *P* < 0.01。

Appendix 3　Landscape pattern index with significant effects on plant species diversity and plant functional diversity in generalized linear mixed model. BLY, Landscape pattern index 4 years ago; LY, Landscape pattern index 2 years ago; C: Class level, 3 means semi-fixed dunes, 4 means moving dunes, 5 means fixed dunes, 6 means lowland, L means landscape level; Other abbreviations see Appendix 1. e.g. C.PLAND.3, Percentage of landscape in semi-fixed dunes now. * *P* < 0.05; ** *P* < 0.01.

	丰富度指数 Richness index	Shannon-Wiener多样性指数 Shannon-Wiener index	Simpson优势度指数 Simpson dominant index	Pielou均匀度指数 Pielou evenness index	功能属性多样性 Functional attribute diversity 1	修正功能属性多样性 Modified functional attribute diversity	功能离散度 Functional dispersion	功能分散度 Functional divergence	功能均匀度 Functional evenness	功能特异化指数 Functional specificity	二次熵指数 Quadratic entropy
C.PLAND.3	2.840**	–0.520	–0.446	–	–	–	–	–	–	–	–
C.PLADJ.3	–0.321	0.391	0.456	–	–	–	–	–	–	–	–
C.PARA_AM.3	–2.780**	–2.237*	–2.573*	–	–	–	–	–	–	–	–
C.LPI.3	–1.786	–	–	–	–	–	–	–	–	–	–
C.GYRATE_RA.3	0.111	–	–	–	–	–	–	–	–	–	–
C.GYRATE_AM.3	–0.321	–0.013	–	–	–	–	–	–	–	–	–
C.CONTIG_AM.3	–2.951**	–3.631**	–4.034**	–	–	–	–	–	–	–	–
C.AREA_RA.3	0.919	–	–	–	–	–	–	–	–	–	–
C.AREA_AM.3	1.837	–	–	–	–	–	–	–	–	–	–
C.AI.3	–2.300*	–0.982	–	–	–	–	–	–	–	–	–
C.PAFRAC.3	–	–3.532**	–3.686**	0.960	–	–3.961**	–	–	–	–	1.515
C.CA.3	–	0.520	0.446	–	–	–	–	–	–	–	–
C.PARA_MD.3	–	–	–	–1.523	–	–	–	–	–	–	–
C.IJI.3	–	–	–	–2.564*	2.236*	–	0.642	1.654	–	–	0.424
C.ENN_CV.3	–	–	–	–1.402	–	–	–	–	–	–	–
BLY.C.PAFRAC.3	–	–	–	1.434	–	–	–	–	–	–	–
BLY.C.SHAPE_AM.3	–	–	–	–	–0.084	–	–	–	–	–	–
BLY.C.FRAC_AM.3	–	–	–	–	–0.320	–	–	–	–	–	–
BLY.C.ED.3	–	–	–	–	2.831**	–	–	–	–	–	–
C.PARA_SD.3	–	–	–	–	–	0.798	–	–	–	–	–
C.ENN_MD.3	–	–	–	–	–	–2.877**	–2.706**	0.191	–	–2.591*	–
C.CONTIG_SD.3	–	–	–	–	–	–1.770	–	–	–	–	–
C.CLUMPY.3	–	–	–	–	–	1.532	–	–	–	–	–
LY.C.LSI.3	–	–	–	–	–	–	0.103	1.582	–	0.088	–
LY.C.ENN_MN.3	–	–	–	–	–	–	–2.087*	–0.765	–	–	–
BLY.C.ENN_SD.3	–	–	–	–	–	–	–0.009	–	–	–	0.534
LY.C.ED.3	–	–	–	–	–	–	–	–0.537	–	–	–
BLY.C.SPLIT.3	–	–	–	–	–	–	–	–2.467*	–	–	–
LY.C.SPLIT.3	–	–	–	–	–	–	–	–	0.305	–	–0.570
LY.C.IJI.3	–	–	–	–	–	–	–	–	1.650	–	0.706
LY.C.CLUMPY.3	–	–	–	–	–	–	–	–	–1.461	–	–
LY.C.CIRCLE_MD.3	–	–	–	–	–	–	–	–	2.131*	–	–0.829
C.SPLIT.3	–	–	–	–	–	–	–	–	0.467	–	–
C.SHAPE_MD.3	–	–	–	–	–	–	–	–	0.168	–	0.895
C.PROX_CV.3	–	–	–	–	–	–	–	–	2.348*	–	–
C.GYRATE_MD.3	–	–	–	–	–	–	–	–	–0.265	–	–
C.AREA_MD.3	–	–	–	–	–	–	–	–	0.854	–	1.125
LY.C.FRAC_SD.3	–	–	–	–	–	–	–	–	–	–2.303*	–
LY.C.ENN_RA.3	–	–	–	–	–	–	–	–	–	0.404	–
C.CIRCLE_RA.3	–	–	–	–	–	–	–	–	–	–0.355	–

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BLY.C.SHAPE_AM.4	–1.843	–	–	–	–	0.244	–	–	–	1.983	–
BLY.C.PROX_AM.4	–0.653	–	–	–	–	–	1.227	–	–	2.635*	–
BLY.C.FRAC_AM.4	2.034*	–	–	–	–	–	–	–	–	–	–
BLY.C.ENN_MN.4	1.838	2.972**	–	–	–	–	–	–	–	–2.461*	–
BLY.C.ED.4	–3.033**	0.269	0.181	–1.094	–	–	–	–	–	–1.601	0.492
C.IJI.4	–	–1.628	–6.513**	–6.702**	–	–	–	–	–	–	–
C.CIRCLE_MD.4	–	–3.276**	–3.759**	–5.320**	–	–	–	–	–	–	–
BLY.C.PAFRAC.4	–	–1.200	–	–	–	–	–2.485*	–	–	–	–
BLY.C.LSI.4	–	0.605	–1.780	0.670	–	–	–	2.229*	–	–	–
BLY.C.ENN_RA.4	–	–	2.695*	–	–	–	–	–	–	–0.693	–
BLY.C.PD.4	–	–	–	–2.074*	–	–	–	–	–	–	–
LY.C.GYRATE_MN.4	–	–	–	–	–2.590**	0.820	–	–	–	–	–
BLY.C.MESH.4	–	–	–	–	2.336*	–	–0.118	–1.154	–	–	–
BLY.C.LPI.4	–	–	–	–	1.892	–	–	–	–	–	–
BLY.C.CIRCLE_SD.4	–	–	–	–	1.311	–	–	–	–	–	–
BLY.C.AREA_AM.4	–	–	–	–	–2.207*	–	–	–	–	–	–
LY.C.SHAPE_MN.4	–	–	–	–	–	–2.183*	–	–	–	–	–
LY.C.FRAC_MN.4	–	–	–	–	–	1.284	–	–	–	–	–
C.PROX_AM.4	–	–	–	–	–	2.430*	–	–	–	–	–
LY.C.AREA_MN.4	–	–	–	–	–	–	–0.825	–	–	–	–
BLY.C.CIRCLE_MN.4	–	–	–	–	–	–	1.319	–	–	–	1.857
BLY.C.AREA_MN.4	–	–	–	–	–	–	–0.711	–	–	–	–
LY.C.PLADJ.4	–	–	–	–	–	–	–	0.525	–	–	–
LY.C.PARA_AM.4	–	–	–	–	–	–	–	–0.428	–	–	–
LY.C.MESH.4	–	–	–	–	–	–	–	1.173	–	–	–
LY.C.DIVISION.4	–	–	–	–	–	–	–	1.173	–	–	–
LY.C.CONTIG_AM.4	–	–	–	–	–	–	–	–0.900	–	–	–
LY.C.AREA_AM.4	–	–	–	–	–	–	–	–0.488	–	–	–
LY.C.AI.4	–	–	–	–	–	–	–	–0.724	–	–	–
BLY.C.DIVISION.4	–	–	–	–	–	–	–	–1.153	–	–	–
BLY.C.NLSI.4	–	–	–	–	–	–	–	–	0.314	–	0.625
BLY.C.CLUMPY.4	–	–	–	–	–	–	–	–	1.532	–	0.551
C.ENN_AM.4	–	–	–	–	–	–	–	–	–	0.786	–
LY.C.ENN_MD.4	–	–	–	–	–	–	–	–	–	–	–3.247**
LY.C.LSI.5	2.039*	–	–	–	–	–	–	–	–	–	–
LY.C.ED.5	–1.178	–	–	–	–	–	–	–	–	–	–
C.SHAPE_MN.5	1.512	2.511*	2.000*	–	–	–	–	–	–	–	–
C.PAFRAC.5	2.236	–	–	–	–	3.441**	–	–	–	–	–
C.LSI.5	2.542	–	–	–	–	–	–	0.352	–	–	–
C.FRAC_SD.5	–0.548	–	–	–	–	–	–	–	–	–	–
C.FRAC_RA.5	–1.879	–	–	–	–	–	–	–1.044	–	–	–
C.FRAC_MN.5	–0.998	–1.080	–0.866	–	–	–	–	–	–	–	–
BLY.C.IJI.5	–4.427**	–2.154*	–2.136*	–	–	–	–	–	–	–	1.148
LY.C.CONNECT.5	–	2.737**	2.560*	2.495*	–	–2.887**	–	–	–	–	–
C.FRAC_MD.5	–	1.444	1.505	–	–	–	–	–	–	–	–
BLY.C.ENN_CV.5	–	–2.272*	–2.253*	–2.222*	–	–	–	–	–	–	–

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LY.C.SHAPE_MD.5	–	–	–	–1.984*	–	–	–	–	–	3.018**	–
C.IJI.5	–	–	–	–2.091*	–	–	–	–	–	–	–
BLY.C.PD.5	–	–	–	–	2.069*	–	–	–	–	–	–
BLY.C.LSI.5	–	–	–	–	–0.639	–	–	–	–	–	–
BLY.C.GYRATE_RA.5	–	–	–	–	2.487*	–	–	–	–	–	–
BLY.C.ED.5	–	–	–	–	–1.730	–	–	–	–	–	–
LY.C.SPLIT.5	–	–	–	–	–	–2.766**	–	–	–	–	–
BLY.C.SHAPE_MN.5	–	–	–	–	–	0.486	–	–	–	–	–
BLY.C.PLADJ.5	–	–	–	–	–	1.067	–	–	–	–	–
BLY.C.FRAC_MN.5	–	–	–	–	–	–1.036	–	–	–	–	–
BLY.C.PARA_SD.5	–	–	–	–	–	–	–1.641	–	–	–	–
BLY.C.FRAC_SD.5	–	–	–	–	–	–	1.657	–	–	–	–
BLY.C.FRAC_CV.5	–	–	–	–	–	–	–1.660	–	–	–	–
BLY.C.CONTIG_SD.5	–	–	–	–	–	–	1.590	–	–	–	–
BLY.C.CIRCLE_SD.5	–	–	–	–	–	–	2.620**	–	–	–	–
BLY.C.CIRCLE_RA.5	–	–	–	–	–	–	–1.505	–	–	–	–
C.PROX_CV.5	–	–	–	–	–	–	–	0.909	–	–	–
C.PLADJ.5	–	–	–	–	–	–	–	–0.547	–	–	–
C.PARA_RA.5	–	–	–	–	–	–	–	0.846	–	–	1.487
C.FRAC_CV.5	–	–	–	–	–	–	–	–0.385	–	–	0.650
C.CONTIG_RA.5	–	–	–	–	–	–	–	–1.058	–	–	–0.540
C.CONNECT.5	–	–	–	–	–	–	–	0.813	–	–	–0.609
C.COHESION.5	–	–	–	–	–	–	–	1.537	–	–	–
C.CIRCLE_RA.5	–	–	–	–	–	–	–	1.832	–	–	–
LY.C.PROX_MD.5	–	–	–	–	–	–	–	–	–0.887	–1.629	–
LY.C.MESH.5	–	–	–	–	–	–	–	–	–0.511	–	–
LY.C.LPI.5	–	–	–	–	–	–	–	–	1.401	–	–
LY.C.GYRATE_MN.5	–	–	–	–	–	–	–	–	2.374*	–0.011	–
LY.C.GYRATE_AM.5	–	–	–	–	–	–	–	–	–2.397*	–	–
LY.C.DIVISION.5	–	–	–	–	–	–	–	–	–0.510	–2.364*	–
LY.C.AREA_MD.5	–	–	–	–	–	–	–	–	–2.967**	–	–
LY.C.GYRATE_MD.5	–	–	–	–	–	–	–	–	–	–3.424**	–
LY.C.AREA_MN.5	–	–	–	–	–	–	–	–	–	0.977	–
BLY.C.GYRATE_SD.5	–	–	–	–	–	–	–	–	–	–0.942	–
BLY.C.ENN_MN.5	–	–	–	–	–	–	–	–	–	1.465	–
BLY.C.ENN_AM.5	–	–	–	–	–	–	–	–	–	–1.789	–
C.PARA_SD.5	–	–	–	–	–	–	–	–	–	–	–0.480
C.CONTIG_SD.5	–	–	–	–	–	–	–	–	–	–	0.119
C.CIRCLE_SD.5	–	–	–	–	–	–	–	–	–	–	–1.073
C.CIRCLE_CV.5	–	–	–	–	–	–	–	–	–	–	0.692
LY.C.SHAPE_SD.6	–0.134	–1.348	–1.308	–	–	–	–	–	–	–	–
LY.C.SHAPE_AM.6	3.278**	1.644	2.575*	–	–	–	–	–	–	–	–
LY.C.PROX_AM.6	2.446*	–	–	–	–	–	–	–	–	–	–
LY.C.FRAC_AM.6	–0.825	–0.044	–1.515	–	–	–	–	–	–	–	–
LY.C.ED.6	2.654**	–	–	–	0.930	–	–	–	–	–	–
LY.C.CA.6	–1.724	0.437	1.027	–	–	–	–	–	–	–1.614	–

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LY.C.ENN_RA.6	–	–2.327	–2.029	–3.542**	–	–	–	–	–	–	–
C.IJI.6	–	–5.731**	–	–3.872**	–	–	–	–	–	2.956**	–
LY.C.IJI.6	–	–	–5.449**	–3.611**	–	–	–	–	–	–	–
LY.C.CIRCLE_RA.6	–	–	–	–3.194**	–	–	–	–	–	–	–
LY.C.SPLIT.6	–	–	–	–	–2.047*	2.467*	–1.369	2.624**	0.456	–	–
LY.C.LSI.6	–	–	–	–	–0.272	–	–	1.216	–	–	–
LY.C.COHESION.6	–	–	–	–	–1.633	–	1.452	–	–0.174	–	–
C.LSI.6	–	–	–	–	1.912	–	–	–	–	–	0.694
C.ENN_CV.6	–	–	–	–	–	3.031**	–	–	–	–	–
BLY.C.SPLIT.6	–	–	–	–	–	0.543	–	–	–	–	–
BLY.C.PLADJ.6	–	–	–	–	–	0.400	–	–	–	–	–
BLY.C.NLSI.6	–	–	–	–	–	–1.644	–	–	–	–	–
BLY.C.ENN_AM.6	–	–	–	–	–	–1.622	–	–	–	–	–
BLY.C.AI.6	–	–	–	–	–	–1.139	–	–	–	–	–
LY.C.PARA_AM.6	–	–	–	–	–	–	0.184	–	–	–	–
LY.C.PAFRAC.6	–	–	–	–	–	–	–1.830	–	–0.157	–	–2.155*
LY.C.CONTIG_SD.6	–	–	–	–	–	–	0.339	–	–0.385	–	–
LY.C.CONTIG_AM.6	–	–	–	–	–	–	–0.146	–	–	–	–
LY.C.CONNECT.6	–	–	–	–	–	–	–0.073	2.893**	–	–	–
LY.C.CIRCLE_MD.6	–	–	–	–	–	–	2.660*	–	–	–	–
LY.C.CIRCLE_AM.6	–	–	–	–	–	–	–2.062*	–	–	1.315	–
LY.C.PROX_CV.6	–	–	–	–	–	–	–	0.085	–	–	–
LY.C.CONTIG_RA.6	–	–	–	–	–	–	–	1.979*	–	–	–
C.PARA_MN.6	–	–	–	–	–	–	–	0.537	–	–	–
C.CONTIG_MD.6	–	–	–	–	–	–	–	–0.971	–	–	–
LY.C.PARA_SD.6	–	–	–	–	–	–	–	–	0.817	–	–
C.PD.6	–	–	–	–	–	–	–	–	–1.397	–	–
LY.C.GYRATE_SD.6	–	–	–	–	–	–	–	–	–	–1.631	–
LY.C.AREA_SD.6	–	–	–	–	–	–	–	–	–	1.586	–
LY.C.AI.6	–	–	–	–	–	–	–	–	–	0.155	–
C.FRAC_RA.6	–	–	–	–	–	–	–	–	–	–	0.541
C.ENN_MN.6	–	–	–	–	–	–	–	–	–	–	1.349
C.ED.6	–	–	–	–	–	–	–	–	–	–	–1.211
LY.L.SHAPE_RA	3.036**	–	4.509**	–	–	–	–	–	–	–	–
LY.L.PLADJ	1.863	–	–	–	–	–	–	–	–	–	–
LY.L.PARA_AM	–0.960	–	–	–	–	–	–	–	–	–	–
LY.L.LSI	0.959	–	–	–	–	–	–	–	–	–	–
LY.L.CONTIG_AM	–0.362	–	–	–	–	–	–	–	–	–	–
LY.L.AI	–4.247**	–	–	–	–	–	–	–	–	–	–
LY.L.SHAPE_AM	–	2.023*	–	–	–	–	–	–	–	–	–
LY.L.CONTIG_SD	–	–2.431*	–	–	–	–	2.056*	0.143	–	–	–
LY.L.AREA_CV	–	0.915	2.314*	–	–	–	–	–	0.547	–	–
BLY.L.PR	–	–4.436**	–	–	–	–	–	–	–	–	–
L.IJI	–	–	–3.864**	–4.642**	–	–	–	–	–	1.073	–
BLY.L.PR	–	–	–3.330**	–	–	–	–	–	–	–	–

曹亚苏, 范敏, 彭羽, 辛嘉讯, 彭楠一 (2023) 景观格局动态对浑善达克沙地植物物种多样性和功能多样性的影响. 生物多样性, 31, 23048. https://www.biodiversity-science.net/CN/10.17520/biods.2023048.

	丰富度指数 Richness index	Shannon-Wiener 多样性指数 Shannon-Wiener index	Simpson优势度指数 Simpson dominant index	Pielou均匀度指数 Pielou evenness index	功能属性多样性 Functional attribute diversity 1	修正功能属性多样性 Modified functional attribute diversity	功能离散度 Functional dispersion	功能分散度 Functional divergence	功能均匀度 Functional evenness	功能特异化指数 Functional specificity	二次熵指数 Quadratic entropy
L.SHEI	–	–	–	0.928	–	–	–	–	–	–	–
L.SHDI	–	–	–	–0.114	–	–	–	–	–	–	–
L.MSIDI	–	–	–	–1.876	–	–	–	–	–	–	–
L.COHESION	–	–	–	–2.053*	–	–	–	–	–	–	–
BLY.L.SPLIT	–	–	–	–	1.900	–	–	–	–	–	–
BLY.L.PROX_MD	–	–	–	–	2.470*	–	–	–	–	–	–
BLY.L.LPI	–	–	–	–	–1.202	–	–	–	–	–	–
BLY.L.GYRATE_AM	–	–	–	–	–0.419	–	–	–	–	–	–
BLY.L.AREA_RA	–	–	–	–	1.202	–	–	–	–	–	–
LY.L.PROX_SD	–	–	–	–	–	2.324*	–	–	–	–	–
LY.L.ENN_AM	–	–	–	–	–	–0.918	–	–	–	–	–
L.ENN_CV	–	–	–	–	–	–3.109**	–	–	–	–	–
BLY.L.PARA_SD	–	–	–	–	–	1.732	–	–	–	–	–
BLY.L.CONTIG_SD	–	–	–	–	–	–1.491	–	–	–	–	–
BLY.L.AREA_CV	–	–	–	–	–	–0.871	–	–	–	–	–
LY.L.PARA_SD	–	–	–	–	–	–	–2.170*	–	–	–	–
LY.L.GYRATE_MN	–	–	–	–	–	–	–0.334	–1.293	–	–	–
LY.L.ENN_MD	–	–	–	–	–	–	–2.195*	–	–2.009*	–	–0.342
LY.L.AREA_SD	–	–	–	–	–	–	–1.156	–	–	–	–
LY.L.AREA_MN	–	–	–	–	–	–	0.145	–0.245	–	–	–
L.PARA_MN	–	–	–	–	–	–	–0.527	–	–	–	–
L.PARA_CV	–	–	–	–	–	–	–0.600	–2.220*	–0.029	–	0.237
L.CONTIG_MN	–	–	–	–	–	–	–0.384	–	–	–	–
L.AREA_MN	–	–	–	–	–	–	–0.398	–	–	–	0.922
LY.L.GYRATE_SD	–	–	–	–	–	–	–	0.769	–	–	–
L.PARA_SD	–	–	–	–	–	–	–	–1.913	–	–	–1.614
L.GYRATE_SD	–	–	–	–	–	–	–	–1.699	–	–	–
L.ENN_MN	–	–	–	–	–	–	–	1.428	–	–	–
L.ENN_MD	–	–	–	–	–	–	–	–2.887**	–	–	–
L.CONTIG_SD	–	–	–	–	–	–	–	2.028*	–	–	1.191
LY.L.CONNECT	–	–	–	–	–	–	–	–	–2.481*	–	–
L.PROX_MD	–	–	–	–	–	–	–	–	–1.928	–	–
L.GYRATE_MD	–	–	–	–	–	–	–	–	–0.811	–	–1.005
L.CONTIG_MN	–	–	–	–	–	–	–	–	1.694	–	–
L.CIRCLE_SD	–	–	–	–	–	–	–	–	0.565	–	–
L.AREA_MD	–	–	–	–	–	–	–	–	0.039	–	–
L.AREA_CV	–	–	–	–	–	–	–	–	1.056	–	–
LY.L.PARA_MN	–	–	–	–	–	–	–	–	–	–0.598	–
LY.L.CONTIG_CV	–	–	–	–	–	–	–	–	–	–0.059	–
LY.L.CIRCLE_SD	–	–	–	–	–	–	–	–	–	–1.672	–
L.ENN_RA	–	–	–	–	–	–	–	–	–	–2.432*	–
BLY.L.ENN_SD	–	–	–	–	–	–	–	–	–	–2.286*	–
L.GYRATE_MN	–	–	–	–	–	–	–	–	–	–	–1.176
L.CIRCLE_RA	–	–	–	–	–	–	–	–	–	–	1.675
BLY.L.AREA_MN	–	–	–	–	–	–	–	–	–	–	–1.327