

Table S1 Descriptive statistics of species richness in species groups.

	median	mean	std.dev	coef.var [%]	min	max	range
JSR= Joined species richness	522	522.3	158.3	0.30	119	1114	995
NaS= Native species richness	437	435.6	128.8	0.30	108	876	768
NaS_ '%'=(NaS /JSR)*100	83.5	83.7	3.9	0.05	66.3	99.4	33.1
ReLS= Red list species	27	32.3	23.6	0.73	0	181	181
ReLS_ '%'=(ReLS/JSR)*100	5.3	5.7	2.9	0.50	0	17.5	17.5
NeS= Neophyte species	29	31.5	18.8	0.60	0	155	155
NeS_ '%'=(NeS /JSR)*100	5.6	5.7	2.3	0.40	0	16.3	16.3
ArS= Archeophyte species	62	60.9	20.5	0.34	0	131	131
ArS_ '%'=(ArS /JSR)*100	11.8	11.8	2.8	0.24	0	26.3	26.3
'Ar+Na'S= Archeophyte and native species	493	490.7	143.3	0.29	119	988	869
'Ar+Na'S_ '%'=('Ar+Na'S /JSR)*100	94.4	94.3	2.3	0.02	83.7	100	16.3
ApS= Apophyte species	100	98.6	22.0	0.22	35	158	123
ApS_ '%'=(ApS /JSR)*100	19.1	19.5	2.6	0.13	14.1	34.2	20.1
RS= Rare species	53	69.0	55.7	0.81	0	429	429
RS_ '%'=(RS /JSR)*100	10.5	11.7	6.5	0.55	0	48.4	48.4
MS= Moderate species	256	251.2	92.2	0.37	28	480	452
MS_ '%'=(MS/JSR)*100	47.9	46.9	5.8	0.12	17.8	57.7	39.9
CS= Common species	212	202.1	25.5	0.13	82	225	143
CS_ '%'=(CS/JSR)*100	40	41.4	9.4	0.23	20.1	80.5	60.4
NG= Number of genera	301	294.9	68.6	0.23	76	505	429
NF= Number of family	84	78.9	18.0	0.23	16	116	100

Table S2 Spearman rank correlations between richness of species in different groups (Table S2). The upper matrix triangle show *p* values, while the lower – *r*. The nonsignificant correlations are not shown.

	JSR	NaS	NaS_%'	ReLS	ReLS_%'	NeS	NeS_%'	ArS	ArS_%'	'Ar+Na'S	'Ar+Na'S_%'	ApS	ApS_%'	RS	RS_%'	MS	MS_%'	CS	CS_%'	NG	NF
JSR		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NaS	0.990		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NaS_%'	-0.217	-0.094		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ReLS	0.807	0.828			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ReLS_%'	0.541	0.574	0.125	0.923		0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NeS	0.829	0.760	-0.596	0.568	0.313		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NeS_%'	0.493	0.399	-0.776	0.249	0.065	0.880		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ArS	0.809	0.733	-0.640	0.568	0.324	0.813	0.611		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ArS_%'	-0.135	-0.239	-0.778	-0.274	-0.309	0.105	0.276	0.412		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.032	0.000	0.000	0.000
'Ar+Na'S	0.997	0.996	-0.167	0.818	0.557	0.789	0.437	0.790	-0.160		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
'Ar+Na'S_%'	-0.493	-0.399	0.776	-0.249	-0.065	-0.880	-1.000	-0.611	-0.276	-0.437		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ApS	0.961	0.939	-0.287	0.698	0.415	0.823	0.513	0.836		0.956	-0.513		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ApS_%'	-0.784	-0.804		-0.818	-0.680	-0.597	-0.302	-0.511	0.350	-0.788	0.302	-0.599		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
RS	0.894	0.891	-0.163	0.895	0.729	0.767	0.480	0.665	-0.223	0.888	-0.480	0.832	-0.776		0.000	0.000	0.000	0.000	0.000	0.000	0.000
RS_%'	0.756	0.756	-0.126	0.864	0.778	0.666	0.436	0.531	-0.251	0.748	-0.436	0.688	-0.701	0.966		0.000	0.000	0.000	0.000	0.000	0.000
MS	0.978	0.967	-0.222	0.749	0.473	0.807	0.478	0.813	-0.112	0.977	-0.478	0.937	-0.776	0.811	0.649		0.000	0.000	0.000	0.000	0.000
MS_%'	0.669	0.661	-0.131	0.392	0.140	0.530	0.282	0.583	-0.037	0.671	-0.282	0.629	-0.554	0.382	0.187	0.791		0.000	0.000	0.000	0.000
CS	0.867	0.843	-0.277	0.556	0.268	0.722	0.427	0.807	0.040	0.865	-0.427	0.887	-0.568	0.627	0.443	0.892	0.723		0.000	0.000	0.000
CS_%'	-0.964	-0.962	0.173	-0.864	-0.641	-0.808	-0.490	-0.736	0.212	-0.961	0.490	-0.896	0.839	-0.944	-0.849	-0.933	-0.616	-0.735		0.000	0.000
NG	0.983	0.971	-0.230	0.810	0.553	0.820	0.493	0.808	-0.116	0.980	-0.493	0.935	-0.791	0.880	0.744	0.966	0.669	0.852	-0.949		0.000
NF	0.857	0.864	-0.103	0.764	0.563	0.693	0.401	0.624	-0.240	0.858	-0.401	0.786	-0.761	0.812	0.713	0.833	0.551	0.702	-0.853	0.911	

Figure S1 Distribution of species richness in particular species groups in squars.

