

Appendix S1. Results from the analysis of 149 published presence-absence matrices, cited with their respective code (in column headed ‘Matrix’) in Atmar & Patterson [1] and the corresponding taxon (or community origin—e.g., ‘fouling’). In addition to matrix properties, the observed total number of deviating pairs, separately the numbers of positive [aggregations: (+)] and negative [segregations: (–)] species pairs’ associations, as well as the observed and simulated C-score with the respective P-values, are given. Significantly deviating values are given in bold. The number of deviating species pairs identified by only one of either of the two metrics is given in the last column.

Matrix	Taxon	Sites	Species	Fill	Pairs	obs C-score	sim C-score	P	CS		Natural		Differ
									(+)	(–)	(+)	(–)	
1000islm	mamm-nv	18	10	0.277	45	4.24	2.07	0.0006	0	5	0	5	0
afroalpb	birds	6	53	0.330	1378	0.84	0.42	0.0002	0	127	0	122	23
alanbrd	birds	16	82	0.386	3321	6.58	6.11	0.0002	71	76	73	74	13
amazfrog	herps	7	40	0.464	780	0.13	0.15	0.0414	0	0	0	0	0
antiherb	plants	43	84	0.141	3486	10.37	10.32	0.6513	46	25	46	25	10
ausismam	mamm-nv	26	49	0.091	1176	3.56	2.94	0.0002	29	11	29	11	3
auslizrd	herps	23	69	0.242	2346	7.88	7.27	0.0002	48	25	47	24	5
ausmam	mamm-nv	22	18	0.267	153	7.33	6.37	0.0018	5	8	5	8	0
austantt	arthropods	8	15	0.266	105	1.31	1.26	0.4537	0	0	1	0	1
bahabma	habitats	6	6	0.694	15	0.27	0.20	0.3949	0	0	0	0	0
bahamasn	mollusks	6	11	0.575	55	0.11	0.11	1.0000	0	0	0	0	0
bajabl	birds	9	37	0.450	666	0.54	0.50	0.2290	0	4	4	0	0
bajabo	birds	13	28	0.387	378	1.94	1.80	0.0150	2	8	2	8	0
bajahl	herps	8	52	0.331	1326	1.54	1.33	0.0002	2	0	2	0	1

bajahm	herps	23	22	0.100	231	3.25	3.02	0.0926	10	0	9	0	1
bajaho	herps	17	56	0.129	1540	2.58	2.45	0.0454	7	2	6	2	3
bajaml	mamm-nv	20	25	0.152	300	3.89	3.13	0.0002	2	7	2	7	0
bajamo	mamm-nv	14	9	0.174	36	3.83	3.61	0.2621	2	0	2	0	0
bassanu	herps	3	10	0.733	45	0.09	0.09	1.0000	0	0	0	0	0
bassmamm	mamm-nv	19	10	0.310	45	1.78	1.80	0.9892	0	1	0	1	0
basspass	birds	4	25	0.500	300	0.33	0.27	0.0998	0	4	2	0	6
bassrept	herps	10	17	0.347	136	1.05	0.90	0.0662	0	2	0	2	0
bonnfish	fish	7	19	0.413	171	0.33	0.33	0.9720	0	2	0	2	0
brazbird	birds	3	216	0.677	23220	0.08	0.07	0.0026	0	332	0	309	84
brazofb	birds	29	71	0.211	2485	13.42	13.13	0.0006	45	17	45	16	1
brazufb	birds	30	71	0.261	2485	11.13	10.96	0.0982	41	25	45	30	17
britbird	birds	25	8	0.480	28	4.89	4.89	1.0000	0	0	0	0	0
britchah	herps	5	9	0.333	36	0.61	0.33	0.0646	0	0	0	0	0
britcham	mamm-nv	5	9	0.422	36	0.81	0.75	0.4729	0	0	0	0	0
brivirgh	herps	43	23	0.195	253	2.77	2.69	0.5869	0	4	0	5	1
cage41	arthropods	4	36	0.312	630	0.80	0.79	0.0394	0	0	0	0	0
canabo	birds	7	61	0.655	1830	1.15	1.00	0.0002	9	35	9	35	2
canaho	herps	7	10	0.457	45	2.84	2.13	0.0002	4	0	4	0	0
canlauio	arthropods	7	120	0.272	7140	0.72	0.72	0.6989	0	33	0	31	2
caveio22	invertebrates	6	12	0.430	66	1.24	1.23	0.9532	1	0	0	0	1
caveio23	invertebrates	7	16	0.357	120	0.83	0.79	0.5225	0	1	0	1	0
chanbpr	birds	8	38	0.463	703	0.92	0.81	0.0086	0	20	0	21	1
chanherp	herps	15	28	0.176	378	2.46	2.33	0.1766	3	3	3	3	0
chanlbat	bats	6	10	0.350	45	0.60	0.64	0.4661	0	0	0	0	0
chanmamm	mamm-nv	8	6	0.437	15	0.40	0.40	1.0000	0	0	0	0	0
chfbird	birds	30	5	0.646	10	5.20	4.20	0.0210	1	0	1	0	0
chihdgro	mamm-nv	24	14	0.193	91	9.40	8.57	0.0114	1	3	1	3	0
chihdsro	mamm-nv	21	14	0.272	91	8.71	8.32	0.1626	0	1	0	3	2
chiweedo	plants	13	123	0.362	7503	3.90	3.88	0.3233	34	47	35	50	8

chiweedy	plants	13	75	0.271	2775	3.21	3.09	0.0010	11	15	11	17	6
chuffbird	birds	9	5	0.688	10	0.60	0.60	1.0000	0	0	0	0	0
clinbell	plants	15	152	0.381	11476	2.94	2.75	0.0002	47	62	48	64	17
colofish	fish	6	26	0.243	325	0.73	0.68	0.2342	0	1	0	1	0
deadfish	fish	5	8	0.275	28	1.11	1.14	0.7928	0	0	0	0	0
defau653	arthropods	6	33	0.353	528	1.30	1.28	0.5037	0	1	0	1	0
eiremoth	arthropods	5	119	0.613	7021	0.28	0.25	0.0002	0	87	0	86	1
ereptile	herps	9	17	0.413	136	0.77	0.72	0.4013	0	2	0	2	0
erisopod	arthropods	22	12	0.458	66	3.73	3.76	0.9300	0	0	0	0	0
faerbird	birds	22	40	0.518	780	2.31	2.04	0.0090	3	24	3	27	3
faerio	arthropods	17	26	0.463	325	1.01	0.96	0.4625	0	3	0	3	0
finbird	birds	6	23	0.768	253	0.74	0.59	0.0002	0	4	0	4	0
finlaks1	mamm-nv	16	5	0.412	10	11.50	11.10	0.4881	0	1	0	1	0
frigbo	birds-sea	9	28	0.395	378	1.22	1.02	0.0134	0	6	0	6	0
frigpo	plants	8	40	0.262	780	0.07	0.07	1.0000	0	0	0	0	0
gabat	bats	4	38	0.513	703	0.47	0.46	0.4281	0	0	0	0	0
galabo	birds	15	23	0.602	253	4.98	3.99	0.0002	7	18	8	18	3
gambantt	arthropods	7	9	0.444	36	1.78	1.75	0.9340	0	0	0	0	0
gatbird	birds	6	102	0.468	5151	1.16	1.12	0.0050	0	6	0	6	2
gbdgrod	mamm-nv	5	3	0.533	3	0.67	0.67	1.0000	0	0	0	0	0
gbdsrod	mamm-nv	25	13	0.283	78	10.03	8.22	0.0006	1	2	1	2	0
gbmtbird	birds	13	11	0.538	55	3.89	3.73	0.2837	1	0	1	0	0
gbsdrod	mamm-nv	15	13	0.379	78	5.56	4.97	0.0022	3	1	5	2	3
gbssrod	mamm-nv	12	6	0.500	15	1.60	1.53	0.7956	0	0	0	1	1
grbrfish	fish	30	35	0.288	595	20.93	19.86	0.0002	38	33	36	33	4
halfglas	plants	56	39	0.403	741	24.92	24.07	0.0134	11	27	17	22	5
hawaantt	arthropods	14	32	0.294	496	1.31	1.27	0.4025	0	1	0	2	1
hawabend	birds	6	35	0.376	595	0.56	0.58	0.1430	0	2	0	1	1
hawanb19	birds	8	36	0.288	630	0.97	0.85	0.0206	0	12	0	12	0
hawapele	plants	6	66	0.212	2145	0.94	0.87	0.0002	0	1	0	1	0

hawapepr	plants	7	38	0.334	703	0.87	0.91	0.0070	0	3	0	1	4
hebirds	birds-sea	19	22	0.59	231	3.45	3.13	0.0082	1	3	1	2	1
hebwoffb	birds-sea	14	18	0.472	153	5.59	4.94	0.0002	7	4	7	4	0
illwdb79	birds	12	46	0.521	1035	1.20	1.09	0.0134	6	16	5	17	4
italiant	arthropods	21	48	0.243	1128	2.91	2.77	0.1246	6	17	6	19	2
jamaanol	herps	9	6	0.648	15	1.60	1.67	0.5689	0	0	0	0	0
kirim	bats	7	55	0.249	1485	0.47	0.31	0.0006	0	51	0	51	0
labatpgc	bats	17	24	0.291	276	3.17	2.46	0.0002	2	2	2	2	0
lahofish	fish	9	12	0.24	66	0.09	0.09	1.0000	0	0	0	0	0
lineantt	arthropods	6	13	0.243	78	1.08	1.03	0.5261	0	0	0	0	0
lmamphib	herps	9	10	0.343	45	0.91	0.89	0.9352	0	0	0	0	0
lmaves	birds	15	152	0.262	11476	1.23	1.10	0.0002	16	283	21	279	55
lmammal	mammals	12	28	0.220	378	1.30	1.23	0.2358	0	4	1	4	1
lmreptil	herps	8	8	0.453	28	2.00	1.89	0.2450	0	0	0	0	0
madbird	birds	12	78	0.616	3003	1.25	1.24	0.6717	0	19	0	20	1
maddabrd	birds	16	61	0.234	1830	1.17	0.99	0.0010	0	45	0	44	1
mahop	plants	18	70	0.208	2415	4.64	4.61	0.4961	10	8	10	7	3
marqantt	arthropods	13	16	0.384	120	4.88	4.70	0.1582	3	0	3	0	0
microhi	aquatic micros	9	11	0.444	55	2.82	2.69	0.3117	0	0	0	0	0
microli	aquatic micros	5	9	0.422	36	0.86	0.81	0.5445	0	0	0	0	0
mindanam	mamm-nv	9	35	0.393	595	0.67	0.68	0.9836	0	5	0	5	0
mojadsro	mamm-nv	49	14	0.236	91	40.78	39.95	0.1230	4	4	4	4	0
mojasdro	mamm-nv	3	5	0.533	10	0.50	0.60	0.9796	0	0	0	0	0
natuherb	plants	22	116	0.245	6670	7.58	7.43	0.0030	66	43	65	46	8
nccoast	mollusks	36	18	0.489	153	25.90	25.57	0.2521	5	3	5	3	0
ncinland	mollusks	31	19	0.490	171	27.97	27.68	0.2434	5	4	5	4	0
newzbl	birds	22	53	0.325	1378	2.66	2.44	0.0126	8	50	9	50	3
newzbo	birds	9	31	0.258	465	1.32	1.29	0.6477	0	3	0	3	0
ohebccl	arthropods	6	155	0.458	11935	0.59	0.59	0.8580	0	59	0	51	30
ohebspid	arthropods	6	38	0.513	703	0.78	0.70	0.0118	0	0	0	0	0

ontarioc	plankton	34	25	0.318	300	25.37	24.43	0.0038	12	10	12	11	3
orealbut	arthropods	13	87	0.167	3741	2.41	2.19	0.0002	73	37	73	40	9
oregfish	fish	11	15	0.193	105	0.94	0.88	0.3133	0	0	0	0	0
pacifish	fish	16	179	0.58	15931	1.51	1.30	0.0002	26	471	23	475	50
palawam	mamm-nv	4	29	0.568	406	0.16	0.15	0.6449	0	3	0	2	1
papahall	herps	17	24	0.154	276	3.21	2.82	0.0122	0	2	0	2	0
penobm85	mamm-nv	7	32	0.450	496	0.19	0.17	0.3033	0	0	0	0	0
perthp	plants	49	147	0.078	10731	2.20	1.80	0.0002	54	222	53	216	71
pueranol	herps	11	8	0.579	28	4.50	3.86	0.0062	1	1	1	2	1
reefmang	plants	22	16	0.380	120	5.48	5.33	0.4529	1	2	1	2	0
relax1	arthropods	8	205	0.408	20910	1.50	1.48	0.0206	52	28	52	28	0
rockymam	mamm-nv	28	26	0.377	325	3.10	2.74	0.0162	3	8	2	8	1
samoantt	arthropods	7	24	0.386	276	0.10	0.10	1.0000	0	0	0	0	0
scum1	diatoms	4	54	0.699	1431	0.11	0.11	0.9412	0	0	0	0	0
scum2	diatoms	4	31	0.822	465	0.09	0.08	0.1714	0	0	0	0	0
scum65	diatoms	8	182	0.583	16471	0.87	0.30	0.3177	12	14	12	14	0
scum66	diatoms	4	180	0.648	16110	0.34	0.34	0.7013	0	0	0	0	0
sipoobrd	birds	18	50	0.223	1225	2.26	2.20	0.4917	1	12	1	13	1
snakfish	fish	4	29	0.422	406	0.36	0.36	1.0000	0	2	0	2	0
sociantt	arthropods	10	21	0.271	210	0.87	0.83	0.5137	0	2	0	2	0
sofinbrd	birds	34	45	0.270	990	6.13	6.13	0.9884	6	15	5	14	4
solid1	arthropods	11	11	0.347	55	2.25	2.24	0.9932	0	0	0	0	0
solid2	arthropods	13	12	0.435	66	3.29	3.12	0.2617	0	0	0	0	0
sonodsro	mamm-nv	45	14	0.200	91	28.47	25.49	0.0002	5	4	5	4	0
sotaherb	plants	12	102	0.260	5151	3.55	3.48	0.0046	41	23	44	27	11
sulawbat	bats	13	59	0.281	1711	3.67	3.40	0.0002	19	8	19	8	2
tanganyo	ostracods	38	104	0.211	5356	15.07	14.68	0.0002	108	69	110	68	7
tiles272	marine fouling	16	21	0.395	210	13.73	13.85	0.1634	3	6	3	6	0
tiles273	marine fouling	18	37	0.403	666	17.89	17.89	0.9780	17	8	16	12	7
tiles274	marine fouling	18	41	0.409	820	18.59	18.57	0.6849	16	16	16	16	0

tilesc1	marine fouling	12	41	0.300	820	6.05	5.87	0.0002	26	3	27	4	2
tongantt	arthropods	3	11	0.484	55	0.13	0.13	1.0000	0	0	0	0	0
tresmarb	birds	4	61	0.778	1830	0.18	0.15	0.0090	0	11	0	11	0
tresmarh	herps	4	20	0.550	190	0.09	0.09	1.0000	0	0	0	0	0
tristwe2	arthropods	4	16	0.328	120	0.68	0.64	0.3493	0	0	0	0	0
usambird	birds	10	31	0.322	465	1.18	1.06	0.0414	0	3	0	2	3
wauotlmp	mollusks	7	15	0.580	105	0.41	0.38	0.4225	0	1	0	1	0
wausclmp	mollusks	7	20	0.207	190	1.53	1.51	0.1398	5	0	5	0	0
windbird	birds	19	211	0.179	22155	3.00	2.22	0.0002	178	532	177	524	61
windiall	arthropods	18	51	0.124	1275	2.44	2.05	0.0006	2	7	2	13	6
winleed1	plants	14	112	0.641	6216	1.95	1.60	0.0002	117	154	117	154	6
winleem1	plants	9	23	0.642	253	0.91	0.76	0.0046	0	9	0	9	0
winleer1	plants	12	102	0.430	5151	1.05	0.84	0.0002	0	199	0	199	18
winlees	plants	10	6	0.800	15	2.13	1.07	0.0054	0	0	0	0	0
woodtree	plants	10	30	0.453	435	1.36	1.34	0.5941	0	1	0	1	0

mamm-nv: non volant mammals; herps: 'herptiles', meaning reptiles plus amphibians; Fill: the percentage of presences (1s) in a matrix.

Reference

1. Atmar, J.W.; Patterson, B.D. *The Nestedness Temperature Calculator: A Visual Basic Program, Including 294 Presence-absence Matrices*; AICS Research, Inc.: University Park, NM, USA; The Field Museum: Chicago, IL, USA, 1995.

Appendix S2. Results from the analysis of the additional 120 published presence-absence matrices. The respective references are given below according to matrix number. In addition to taxon and matrix properties, the observed total number of deviating pairs detected by each metric, separately the numbers of positive [aggregations: (+)] and negative [segregations: (-)] species pairs' associations, as well as the observed and simulated C-score with the respective P-values, are given. Significantly deviating values are given in bold. The number of deviating species pairs identified by only one of either of the two metrics is given in the last column. Fill: the percentage of presences (1 s) in a matrix.

Matrix	Taxon	Species	Islands	Fill	Pairs	obs C-score	sim C-score	P	CS		Natural		Differ
									(+)	(-)	(+)	(-)	
1	Psocoptera	39	18	0.274	741	8.37	8.17	0.539	4	6	4	5	2
2	Bats	9	8	0.444	36	1.64	1.47	0.164	0	0	0	0	0
3	Landbirds	68	8	0.496	2278	1.21	1.13	0.000	0	21	0	20	7
4	Macrolepidoptera	27	21	0.143	351	2.13	1.86	0.066	0	0	0	0	0
5	Landbirds	36	22	0.525	630	2.22	1.72	0.000	2	33	2	32	1
6	Dicotyledones	269	6	0.455	36046	0.39	0.34	0.000	0	331	0	345	44
7	Monocotyledones	77	6	0.411	2926	0.34	0.32	0.409	0	8	0	8	0
8	Ants	24	18	0.463	276	1.18	1.17	0.866	0	0	0	0	0
9	Dermaptera	42	11	0.219	861	1.36	1.44	0.026	1	0	1	0	0
10	Herptiles	26	5	0.431	325	0.79	0.75	0.171	0	0	0	0	0
11	Angiosperms	184	15	0.296	16836	1.21	0.90	0.000	15	497	24	484	73
12	Diptera	18	5	0.278	153	0.43	0.41	0.750	0	1	0	1	0
13	Ferns & Relatives	99	15	0.158	4851	0.32	0.18	0.001	0	259	0	258	1
14	Hymenoptera	14	8	0.366	91	1.08	1.11	0.116	0	3	0	3	0
15	Landbirds	12	13	0.321	66	1.30	1.20	0.299	0	0	0	0	0
16	Lepidoptera	52	7	0.198	1326	0.22	0.19	0.251	0	9	0	8	1
17	Odonata	10	7	0.357	45	0.47	0.47	1.000	0	0	0	0	0
18	Seabirds	17	15	0.408	136	3.16	2.89	0.032	1	2	1	2	0
19	Spiders	61	8	0.174	1830	0.43	0.33	0.009	0	43	0	44	1
20	Herptiles	33	50	0.196	528	2.15	2.14	0.824	18	41	18	39	4

21	Lepidoptera	86	31	0.241	3655	7.27	6.88	0.000	84	128	82	124	12
22	Cicadoidea	17	6	0.265	136	0.06	0.06	1.000	0	0	0	0	0
23	Bats	6	10	0.233	15	3.20	3.20	1.000	1	0	1	0	0
24	Bats	6	8	0.375	15	2.67	2.20	0.064	0	2	0	2	0
25	Bats	34	10	0.256	561	2.07	2.13	0.397	3	0	2	0	1
26	Mammals (no bats)	29	11	0.219	406	1.17	1.16	0.949	0	1	0	1	0
27	Bats	62	22	0.155	1891	4.33	4.00	0.000	31	30	33	29	7
28	Mammals (no bats)	34	17	0.071	561	1.13	1.02	0.000	5	0	5	0	0
29	Bats	55	50	0.119	1485	1.40	1.33	0.004	45	27	47	28	3
30	Mammals (no bats)	31	32	0.100	465	5.62	5.15	0.007	20	4	18	4	4
31	Bats	40	29	0.189	780	8.20	7.72	0.001	21	25	22	22	4
32	Bats	11	27	0.283	55	9.25	8.42	0.098	1	1	1	1	0
33	Angiosperms	60	7	0.348	1770	1.27	1.13	0.000	0	7	0	7	0
34	Angiosperms	17	15	0.310	136	3.95	3.04	0.001	4	4	4	4	0
35	Angiosperms	42	11	0.398	861	1.45	1.30	0.001	0	22	1	20	3
36	Angiosperms	81	13	0.303	3240	1.38	1.22	0.001	1	71	1	69	14
37	Angiosperms	29	54	0.187	406	1.40	1.17	0.000	5	25	5	26	1
38	Plants	29	8	0.483	406	0.55	0.56	0.790	0	1	0	1	0
39	Angiosperms	141	10	0.309	9870	1.77	1.75	0.391	19	70	22	70	7
40	Pteridophyta	38	9	0.292	703	1.14	1.08	0.112	0	11	0	12	1
41	Landbirds	15	5	0.427	105	0.62	0.47	0.008	0	0	0	0	0
42	Freshwater snails	6	9	0.389	15	0.00	0.00	1.000	0	0	0	0	0
43	Terrestrial snails	53	28	0.121	1378	1.44	1.41	0.645	1	6	0	4	3
44	Terrestrial snails	21	16	0.238	210	2.06	2.03	0.833	1	1	1	1	0
45	Bats	6	15	0.244	15	7.00	4.73	0.004	1	1	1	1	0
46	Amphibians	11	9	0.364	55	0.00	0.00	1.000	0	0	0	0	0
47	Reptiles	16	38	0.276	120	8.52	6.93	0.005	1	14	1	14	0
48	Lepidoptera	92	22	0.094	4186	1.26	1.22	0.370	0	9	1	7	5
49	Lepidoptera	25	16	0.165	300	1.14	1.06	0.314	1	7	0	7	1

50	Lepidoptera	127	29	0.080	8001	2.23	2.00	0.001	9	55	7	52	9
51	Lepidoptera	26	21	0.222	325	4.26	3.84	0.021	3	8	2	7	2
52	Lepidoptera	12	15	0.194	66	1.08	1.08	1.000	0	0	0	0	0
53	Lepidoptera	122	29	0.087	7381	2.43	2.19	0.001	8	41	9	38	9
54	Lepidoptera	13	20	0.200	78	3.97	3.51	0.152	0	3	0	3	0
55	Lepidoptera	62	18	0.122	1891	1.26	1.19	0.221	3	17	3	11	8
56	Lepidoptera	30	14	0.133	435	1.33	1.24	0.128	0	3	0	4	0
57	Lepidoptera	9	8	0.306	36	1.47	1.08	0.052	0	0	0	0	0
58	Plants	118	9	0.326	6903	2.29	2.20	0.000	28	31	28	31	4
59	Seabirds	16	5	0.538	120	0.45	0.41	0.167	0	0	0	0	0
60	Homoptera	40	20	0.114	780	3.01	3.07	0.333	5	0	0	7	2
61	Freshwater snails	5	6	0.500	10	1.10	1.00	0.675	0	0	0	0	0
62	Terrestrial snails	294	13	0.096	43071	0.77	0.75	0.145	0	10	0	10	0
63	Terrestrial snails	310	8	0.127	47895	0.78	0.78	0.564	0	0	0	0	0
64	Terrestrial snails	31	7	0.157	465	0.97	0.93	0.055	0	0	0	0	0
65	Terrestrial snails	60	7	0.169	1770	0.90	0.84	0.024	0	0	0	0	0
66	Terrestrial snails	14	8	0.214	91	0.71	0.67	0.450	0	0	0	0	0
67	Terrestrial snails	57	8	0.248	1596	0.96	0.93	0.272	0	4	0	4	0
68	Terrestrial snails	39	6	0.201	741	0.86	0.80	0.109	0	0	0	0	0
69	Terrestrial snails	10	6	0.267	45	1.40	1.20	0.061	0	0	0	0	0
70	Reptiles	24	17	0.164	276	3.21	2.81	0.014	0	2	0	2	0
71	Spiders	68	23	0.273	2278	7.85	7.77	0.245	34	44	39	44	7
72	Spiders	14	9	0.159	91	1.22	1.20	0.848	0	0	0	0	0
73	Dicotyledones	5	7	0.543	10	2.20	2.10	0.694	0	0	0	0	0
74	Dicotyledones	19	17	0.285	171	3.63	3.40	0.150	4	6	5	6	1
75	Dicotyledones	16	17	0.404	120	3.13	3.12	0.930	1	2	1	2	0
76	Dicotyledones	9	18	0.198	36	7.81	7.64	0.503	0	0	0	0	0
77	Dicotyledones	48	16	0.228	1128	2.15	2.12	0.523	2	13	2	13	0
78	Dicotyledones	15	18	0.333	105	7.13	7.07	0.711	0	0	0	0	0

79	Dicotyledones	15	18	0.430	105	5.87	5.61	0.199	3	2	3	2	0
80	Dicotyledones	7	7	0.469	21	0.90	0.95	0.551	0	0	0	0	0
81	Dicotyledones	33	18	0.360	528	4.54	4.32	0.066	6	13	6	13	0
82	Dicotyledones	12	16	0.427	66	3.61	3.23	0.045	2	4	2	2	2
83	Dicotyledones	5	15	0.640	10	5.00	5.20	0.434	0	0	0	0	0
84	Dicotyledones	5	8	0.750	10	0.40	0.40	1.000	0	0	0	0	0
85	Dicotyledones	5	17	0.341	10	14.40	12.65	0.007	1	1	1	1	0
86	Dicotyledones	12	13	0.365	66	3.59	3.32	0.091	0	1	0	1	0
87	Dicotyledones	8	7	0.518	28	2.36	2.14	0.067	0	1	0	1	
88	Dicotyledones	14	18	0.389	91	5.08	4.90	0.282	1	4	1	3	0
89	Dicotyledones	5	8	0.500	10	2.00	1.70	0.623	0	0	0	0	0
90	Dicotyledones	5	9	0.667	10	0.40	0.40	1.000	0	0	0	0	0
91	Dicotyledones	12	13	0.288	66	2.59	2.56	0.770	2	0	2	0	0
92	Monocotyledones	102	18	0.261	5151	2.70	2.44	0.001	31	142	34	143	20
93	Pteridophyta	110	13	0.299	5995	0.74	0.75	0.678	0	47	0	50	5
94	Ants	45	14	0.387	990	0.70	0.61	0.017	0	24	0	23	1
95	Ants	43	9	0.465	903	0.42	0.26	0.000	0	35	0	36	1
96	Honeycreepers	37	8	0.199	666	0.92	0.95	0.285	0	0	0	0	0
97	Ferns	67	14	0.261	2211	0.92	0.75	0.001	1	87	1	82	6
98	Orchids	26	7	0.330	325	0.23	0.15	0.037	0	11	0	14	0
99	Bats	24	5	0.358	276	0.44	0.42	0.448	0	2	0	2	0
100	Mammals (no bats)	7	5	0.343	21	1.52	1.19	0.026	0	0	0	0	0
101	Landbirds	13	17	0.552	78	4.27	3.58	0.001	1	8	2	8	1
102	Landbirds	150	41	0.225	11175	12.08	10.04	0.000	287	875	292	872	51
103	Landbirds	141	142	0.184	9870	57.22	48.21	0.000	513	1009	496	1000	86
104	Mosses	241	8	0.396	28920	0.39	0.36	0.000	0	218	0	239	48
105	Landbirds	154	6	0.528	11781	0.63	0.57	0.000	0	204	0	211	49
106	Landbirds	54	7	0.646	1431	0.82	0.57	0.000	0	66	0	65	3
107	Landbirds	26	15	0.456	325	5.27	5.00	0.007	7	6	8	7	2

108	Landbirds	27	24	0.401	351	9.78	9.25	0.001	5	10	5	10	2
109	Landbirds	16	13	0.447	120	2.64	2.27	0.003	0	5	0	5	0
110	Landbirds	16	7	0.527	120	0.78	0.76	0.734	0	0	0	0	0
111	Landbirds	13	10	0.446	78	2.28	2.26	0.870	0	1	0	1	0
112	Landbirds	13	12	0.301	78	1.23	0.86	0.022	1	4	1	4	0
113	Landbirds	12	8	0.323	66	1.18	1.15	0.743	0	0	0	0	0
114	Landbirds	6	6	0.444	15	0.60	0.60	1.000	0	0	0	0	0
115	Landbirds	12	16	0.578	66	1.70	1.47	0.108	0	2	0	1	0
116	Ants	93	6	0.330	4278	0.54	0.56	0.119	0	12	0	12	0
117	Ants	35	6	0.405	595	0.72	0.70	0.436	0	3	0	3	0
118	Hemiptera	86	6	0.234	3655	0.21	0.19	0.313	0	21	0	20	1
119	Hemiptera	131	6	0.204	8515	0.31	0.32	0.301	0	5	0	5	0
120	Plants	44	20	0.468	946	1.89	1.86	0.684	3	10	3	10	2

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Appendix S3. Results from the analysis of 100 ‘random’ presence-absence matrices constructed with equal probability of each species’ occurrence in each site (Random 1). In addition to matrix properties, the observed total number of deviating pairs detected by each metric, separately the numbers of positive [aggregations: (+)] and negative [segregations: (–)] species pairs’ associations, as well as the observed and simulated C-score with the respective P-values, are given. Significantly deviating values are given in bold. Fill: the percentage of presences (1s) in a matrix.

Matrix	Sites	Species	Fill	Pairs	obs C-score	sim C-score	P	CS		Natural	
								(+)	(–)	(+)	(–)
1	69	53	0.328	1378	229.31	229.21	0.4725	39	37	36	40
2	90	41	0.886	820	80.11	80.09	0.8988	10	0	12	1
3	43	53	0.158	1378	32.38	32.39	0.7409	19	0	20	0
4	74	69	0.415	2346	318.93	318.85	0.5289	84	77	86	76
5	13	88	0.634	3828	8.78	8.79	0.8536	51	36	50	37
6	34	15	0.222	105	32.66	32.85	0.4181	2	1	2	1
7	26	64	0.665	2016	32.05	32.08	0.5569	37	31	38	31
8	64	46	0.563	1035	242.60	242.34	0.1562	37	39	38	39
9	28	86	0.201	3655	19.47	19.40	0.0342	74	16	72	15
10	53	78	0.143	3003	41.50	41.45	0.2845	65	0	68	0
11	91	80	0.169	3160	162.61	162.6	0.9452	87	47	93	42
12	73	51	0.739	1275	196.05	195.94	0.4621	35	28	35	29
13	88	18	0.838	153	145.41	145.35	0.8600	4	1	4	1
14	98	70	0.159	2415	171.64	171.61	0.6889	67	37	64	35
15	80	18	0.698	153	272.35	272.55	0.7257	6	4	6	5
16	87	88	0.259	3828	274.59	274.66	0.5069	115	105	116	105
17	33	32	0.768	496	32.63	32.45	0.1670	12	2	14	3
18	94	47	0.421	1081	519.49	519.81	0.1890	38	28	36	27
19	42	72	0.413	2556	99.97	100.06	0.2350	49	66	49	64
20	71	34	0.121	561	56.82	56.87	0.6265	10	0	10	0
21	77	81	0.190	3240	137.24	137.36	0.1750	74	43	75	43

22	11	64	0.683	2016	5.00	4.98	0.2977	11	8	15	8
23	65	12	0.626	66	236.21	235.15	0.1598	4	2	4	2
24	59	70	0.391	2415	194.49	194.76	0.0058	55	61	57	58
25	73	59	0.741	1711	193.87	193.88	0.9012	57	42	57	40
26	96	59	0.172	1711	185.65	185.61	0.7469	43	25	44	24
27	60	90	0.541	4005	217.24	217.26	0.7457	125	125	124	120
28	33	69	0.690	2346	48.93	48.92	0.9420	48	38	48	39
29	96	53	0.837	1378	170.93	170.83	0.4677	34	22	34	23
30	64	67	0.626	2211	223.67	223.86	0.0790	51	62	52	63
31	41	42	0.590	861	95.03	94.79	0.0606	24	18	25	18
32	18	70	0.456	2415	19.39	19.39	0.9876	41	41	41	40
33	59	66	0.266	2145	130.55	130.65	0.3021	59	39	62	37
34	83	15	0.727	105	273.34	273.42	0.9032	3	0	2	0
35	40	85	0.482	3570	98.93	98.89	0.4441	82	85	84	85
36	72	86	0.805	3655	125.03	125.01	0.7828	86	54	86	51
37	86	89	0.564	3916	442.93	442.99	0.6237	124	115	124	113
38	28	57	0.692	1596	34.63	34.59	0.4825	37	28	40	27
39	55	91	0.801	4095	76.00	76.02	0.7449	105	38	103	39
40	22	73	0.349	2628	24.16	24.06	0.0046	62	53	65	52
41	57	44	0.787	946	89.33	89.42	0.4373	16	15	18	14
42	22	52	0.531	1326	27.98	27.89	0.1242	30	27	32	23
43	57	47	0.680	1081	147.81	148.02	0.1590	39	32	38	30
44	40	53	0.164	1378	29.46	29.40	0.2569	31	1	31	1
45	33	100	0.542	4950	65.04	65.03	0.8624	114	122	115	119
46	81	19	0.292	171	273.65	274.49	0.0570	5	8	3	9
47	33	73	0.629	2628	58.28	58.34	0.3021	60	61	57	60
48	59	75	0.677	2775	161.43	161.50	0.4777	75	64	75	62
49	85	73	0.831	2628	140.53	140.56	0.6817	69	35	69	36
50	85	25	0.508	300	447.5	447.64	0.7353	4	13	5	12
51	94	77	0.660	2926	439.83	439.95	0.4261	89	95	91	93

52	92	31	0.826	465	173.37	173.05	0.1962	15	7	15	9
53	62	77	0.834	2926	72.68	72.68	0.9384	62	19	61	19
54	61	38	0.373	703	193.92	193.14	0.0018	24	25	24	25
55	26	21	0.683	210	30.43	30.50	0.6513	6	5	6	4
56	71	18	0.642	153	260.96	260.28	0.1822	5	6	4	6
57	99	83	0.888	3403	96.52	96.56	0.4165	76	4	78	4
58	53	12	0.533	66	183.67	183.98	0.5481	1	3	1	3
59	43	82	0.858	3321	26.80	26.78	0.6740	67	2	65	2
60	59	95	0.446	4465	208.57	208.60	0.7325	119	141	119	138
61	76	63	0.713	1953	241.61	241.68	0.5717	59	50	57	49
62	93	10	0.461	45	522.42	523.96	0.1418	0	0	0	0
63	73	23	0.797	253	141.71	141.44	0.2881	7	4	8	3
64	99	55	0.552	1485	588.75	588.77	0.8996	51	40	53	41
65	54	15	0.465	105	186.80	186.47	0.4813	2	4	2	4
66	48	59	0.786	1711	63.57	63.50	0.3577	39	18	39	18
67	80	67	0.618	2211	352.45	352.34	0.4717	70	71	72	73
68	87	80	0.498	3160	468.74	468.57	0.1994	105	104	104	102
69	25	41	0.406	820	35.28	35.25	0.7265	17	19	18	20
70	36	83	0.447	3403	76.90	76.84	0.2549	111	96	106	95
71	74	74	0.721	2701	216.78	216.90	0.2737	64	68	66	68
72	90	41	0.349	820	409.36	409.42	0.8068	27	26	27	26
73	51	47	0.404	1081	147.77	147.92	0.2390	27	34	29	35
74	62	53	0.645	1378	197.13	197.17	0.7816	35	34	33	34
75	87	44	0.866	946	101.67	101.70	0.7708	21	1	21	1
76	89	15	0.797	105	207.68	207.43	0.6313	6	3	6	3
77	87	19	0.638	171	393.36	393.07	0.6273	7	5	6	5
78	85	24	0.659	276	360.55	360.68	0.7385	9	10	10	9
79	96	57	0.437	1596	555.22	555.27	0.8060	58	46	54	47
80	54	97	0.435	4656	173.22	173.31	0.1602	139	110	145	114
81	54	36	0.714	630	119.88	119.58	0.0946	19	16	19	15

82	33	50	0.116	1225	11.39	11.38	0.5617	15	0	17	0
83	36	57	0.778	1596	37.47	37.36	0.0834	29	12	23	13
84	17	82	0.875	3321	3.23	3.23	0.7524	26	0	27	0
85	93	52	0.899	1326	70.36	70.38	0.8048	33	0	33	0
86	65	92	0.103	4186	35.25	35.23	0.5309	76	0	77	1
87	76	23	0.519	253	351.36	351.19	0.6849	6	10	6	10
88	49	17	0.709	136	98.06	98.27	0.5201	2	4	2	4
89	27	64	0.286	2016	28.92	28.85	0.2106	39	24	38	27
90	38	46	0.553	1035	86.80	86.75	0.6669	26	35	27	34
91	92	47	0.182	1081	185.85	185.78	0.6857	33	23	29	24
92	99	59	0.687	1711	446.61	446.64	0.8856	61	52	64	52
93	34	70	0.407	2415	64.94	65.02	0.1286	63	47	62	47
94	72	88	0.243	3828	170.87	170.86	0.9536	95	87	92	83
95	89	25	0.284	300	319.53	319.06	0.3109	12	7	12	7
96	91	21	0.687	210	378.49	379.15	0.1514	3	6	3	6
97	61	33	0.474	528	229.03	229.13	0.6893	14	16	13	16
98	55	61	0.706	1830	130.08	130.12	0.6973	49	43	44	40
99	20	60	0.339	1770	18.68	18.67	0.7820	29	22	27	20
100	44	97	0.504	4656	118.57	118.48	0.1138	127	123	125	122

Appendix S4. Results from the analysis of 100 ‘random’ presence-absence matrices constructed with random probability of each species’ occurrence in each site (Random 2). In addition to matrix properties, the observed total number of deviating pairs detected by each metric, separately the numbers of positive [aggregations: (+)] and negative [segregations: (–)] species pairs’ associations, as well as the observed and simulated C-score with the respective P-values, are given. Significantly deviating values are given in bold. Fill: the percentage of presences (1 s) in a matrix.

Matrix	Sites	Species	Fill	Pairs	obs C-score	sim C-score	P	CS		Natural	
								(+)	(–)	(+)	(–)
1	66	92	0.522	4186	165.32	149.97	0.0590	154	129	95	198
2	43	41	0.483	820	55.22	55.46	0.2010	14	18	14	21
3	23	54	0.497	1431	20.92	20.95	0.6569	20	27	21	24
4	12	37	0.421	666	6.61	6.50	0.0222	6	15	6	15
5	12	90	0.468	4005	4.40	4.41	0.4425	11	51	13	52
6	93	64	0.531	2016	335.92	336.22	0.2933	54	50	53	50
7	56	28	0.492	378	11.32	11.27	0.8860	13	12	13	13
8	85	68	0.497	2278	272.51	272.45	0.8404	74	70	71	71
9	84	86	0.488	3655	263.53	263.61	0.6920	109	119	107	118
10	92	70	0.544	2415	331.80	331.61	0.4997	73	88	75	88
11	48	26	0.454	325	81.90	82.43	0.0338	6	8	6	8
12	63	71	0.488	2485	154.05	154.43	0.0238	56	56	55	53
13	20	65	0.484	2080	13.84	13.87	0.5781	48	45	47	43
14	15	62	0.648	1891	6.81	6.79	0.7485	23	23	26	28
15	48	47	0.500	1081	88.93	88.75	0.3645	35	30	36	29
16	63	12	0.548	66	145.08	144.88	0.7832	2	1	2	1
17	17	90	0.441	4005	13.02	13.03	0.9004	75	71	76	71
18	33	80	0.498	3160	40.79	40.87	0.3729	67	68	67	68
19	44	44	0.477	946	92.97	93.01	0.7944	32	18	34	17
20	69	53	0.499	1378	174.12	174.43	0.1954	31	39	28	42
21	58	57	0.523	1596	116.19	116.20	0.9968	43	56	42	55

22	26	38	0.484	703	27.62	27.55	0.5713	19	12	18	12
23	96	62	0.477	1891	321.76	321.71	0.8944	70	66	72	65
24	63	28	0.536	378	158.52	158.37	0.6561	12	12	14	12
25	85	40	0.495	780	265.99	266.34	0.3889	20	13	20	12
26	52	82	0.482	3321	105.79	105.89	0.4625	80	84	73	81
27	36	17	0.598	136	48.54	48.08	0.1378	2	7	2	7
28	74	37	0.520	666	205.79	205.32	0.2142	29	16	28	16
29	66	85	0.459	3570	154.02	153.72	0.1394	114	130	135	113
30	52	29	0.496	406	91.74	91.82	0.7624	11	14	11	13
31	87	93	0.514	4278	302.65	302.58	0.7852	126	147	127	146
32	48	64	0.479	2016	96.44	96.59	0.2745	46	39	48	38
33	75	31	0.480	465	220.48	220.12	0.3717	13	17	14	17
34	66	98	0.513	4753	172.79	172.81	0.8956	140	127	133	130
35	31	54	0.468	1431	40.18	40.16	0.8324	25	35	25	36
36	65	98	0.482	4753	171.54	171.53	0.9844	140	141	140	141
37	94	36	0.465	630	337.47	336.34	0.0294	32	31	29	31
38	68	35	0.470	595	157.97	158.40	0.1934	14	15	13	15
39	69	40	0.508	780	174.83	174.89	0.8176	27	21	29	21
40	67	41	0.475	820	164.90	165.00	0.7185	29	25	28	24
41	63	57	0.521	1596	135.50	135.24	0.3129	46	60	46	60
42	52	53	0.518	1378	118.44	118.34	0.5493	41	49	40	49
43	87	15	0.477	105	272.34	272.55	0.8152	4	2	4	2
44	24	45	0.563	990	23.10	23.13	0.7652	17	16	19	17
45	20	65	0.480	2080	15.35	15.36	0.9792	30	36	30	36
46	98	39	0.502	741	355.61	355.48	0.7760	20	26	21	26
47	40	32	0.531	496	64.35	64.15	0.3121	14	13	15	13
48	46	84	0.465	3486	80.63	80.48	0.2825	100	93	97	89
49	91	68	0.487	2278	292.72	292.75	0.9116	73	88	71	87
50	73	63	0.511	1953	220.79	221.25	0.0262	54	43	50	46

51	22	79	0.434	3081	20.23	20.13	0.1046	68	72	65	72
52	16	54	0.531	1431	8.45	8.45	1	19	28	19	27
53	18	40	0.565	780	13.28	13.31	0.6993	12	11	12	11
54	66	72	0.500	2556	155.95	155.76	0.3665	72	88	73	88
55	31	14	0.512	91	40.14	40.46	0.2014	1	2	1	2
56	43	45	0.427	990	79.32	79.25	0.6817	31	23	30	21
57	54	50	0.534	1225	11.16	11.02	0.4913	30	40	31	37
58	24	99	0.449	4851	22.31	22.25	0.2354	109	101	108	98
59	68	29	0.535	406	148.30	148.41	0.7912	14	11	13	11
60	12	56	0.433	1540	4.66	4.69	0.5969	14	19	15	20
61	86	62	0.514	1891	289.07	288.95	0.6757	67	66	65	66
62	69	90	0.468	4005	171.54	171.45	0.6641	130	128	132	126
63	50	10	0.526	45	85.47	85.47	1	0	1	0	1
64	11	42	0.528	861	4.01	4.01	1	2	10	2	10
65	77	63	0.506	1953	248.45	248.14	0.1942	67	62	67	65
66	32	95	0.495	4465	38.49	38.52	0.7077	118	110	118	115
67	97	74	0.542	2701	352.66	352.64	0.9464	83	83	84	83
68	55	84	0.572	3486	131.08	131.10	0.8680	97	88	91	92
69	13	65	0.588	2080	5.32	5.38	0.0806	14	27	14	27
70	58	17	0.447	136	129.38	128.53	0.1222	6	6	6	6
71	47	61	0.552	1830	81.14	81.22	0.6237	40	52	40	51
72	56	23	0.601	253	127.75	127.43	0.4217	9	6	8	6
73	30	26	0.515	325	31.52	31.57	0.8064	7	8	7	9
74	25	63	0.549	1953	21.59	21.53	0.5477	36	40	32	42
75	84	95	0.516	4465	276.04	276.34	0.1594	139	110	140	111
76	89	42	0.498	861	308.19	308.03	0.6885	30	36	30	34
77	93	80	0.502	3160	371.70	371.99	0.2006	89	72	85	72
78	92	78	0.541	3003	319.57	319.51	0.8160	93	100	95	97
79	20	70	0.362	2415	14.08	14.03	0.3981	42	53	40	50

80	79	96	0.509	4560	243.79	244.02	0.2318	127	127	127	129
81	42	72	0.564	2556	63.82	63.63	0.1754	85	76	84	79
82	89	67	0.472	2211	272.03	272.21	0.5645	51	61	54	62
83	12	76	0.395	2850	4.27	4.33	0.1502	12	29	13	32
84	25	60	0.462	1770	20.77	20.79	0.7289	32	36	32	35
85	81	77	0.461	2926	235.76	234.96	0.0062	127	116	126	114
86	20	39	0.529	741	14.29	14.36	0.4433	6	13	6	13
87	89	19	0.505	171	298.88	298.46	0.5249	7	4	7	4
88	93	77	0.536	2926	324.75	324.75	0.9948	90	96	89	97
89	77	18	0.530	153	240.94	240.68	0.6717	4	11	4	11
90	41	60	0.483	1770	67.49	67.56	0.5741	35	48	36	47
91	21	48	0.523	1128	15.75	15.72	0.6589	20	20	21	21
92	43	25	0.522	300	67.32	67.60	0.3125	5	5	5	4
93	40	21	0.629	210	60.19	60.47	0.2597	5	2	5	2
94	73	14	0.530	91	208.41	208.43	0.9780	3	1	2	2
95	42	17	0.458	136	72.89	72.36	0.1810	4	7	3	6
96	37	94	0.514	4371	49.87	49.95	0.3529	91	103	92	109
97	33	62	0.456	1891	39.02	39.05	0.7848	40	33	38	33
98	34	73	0.556	2628	47.32	47.21	0.2362	69	79	70	79
99	49	28	0.517	378	78.14	78.44	0.2857	6	9	6	8
100	20	71	0.513	2485	12.86	12.86	0.9892	27	46	27	48