

SUPPLEMENTARY MATERIAL

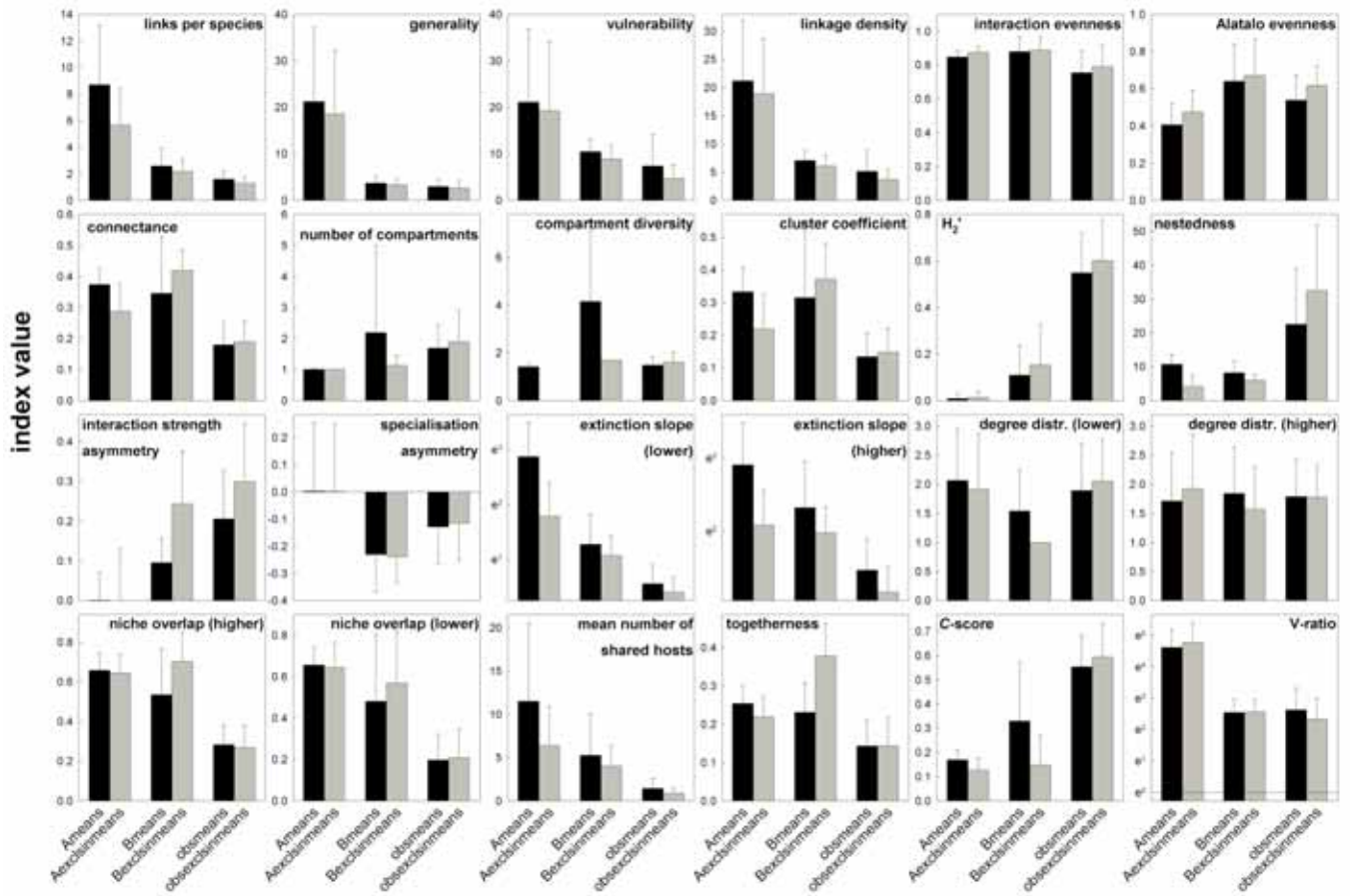


Fig. (S1). Effect of excluding singleton observations from the networks on index values. Gray bars are without singletons, black the full network. The three groups of bars refer to all networks created for network dimensions, all networks created for sampling intensity and the 19 observed pollination networks. Note that the first and third bar group are similar in terms of sampling intensity, while the second and third bar group are similar in terms of network dimensions.

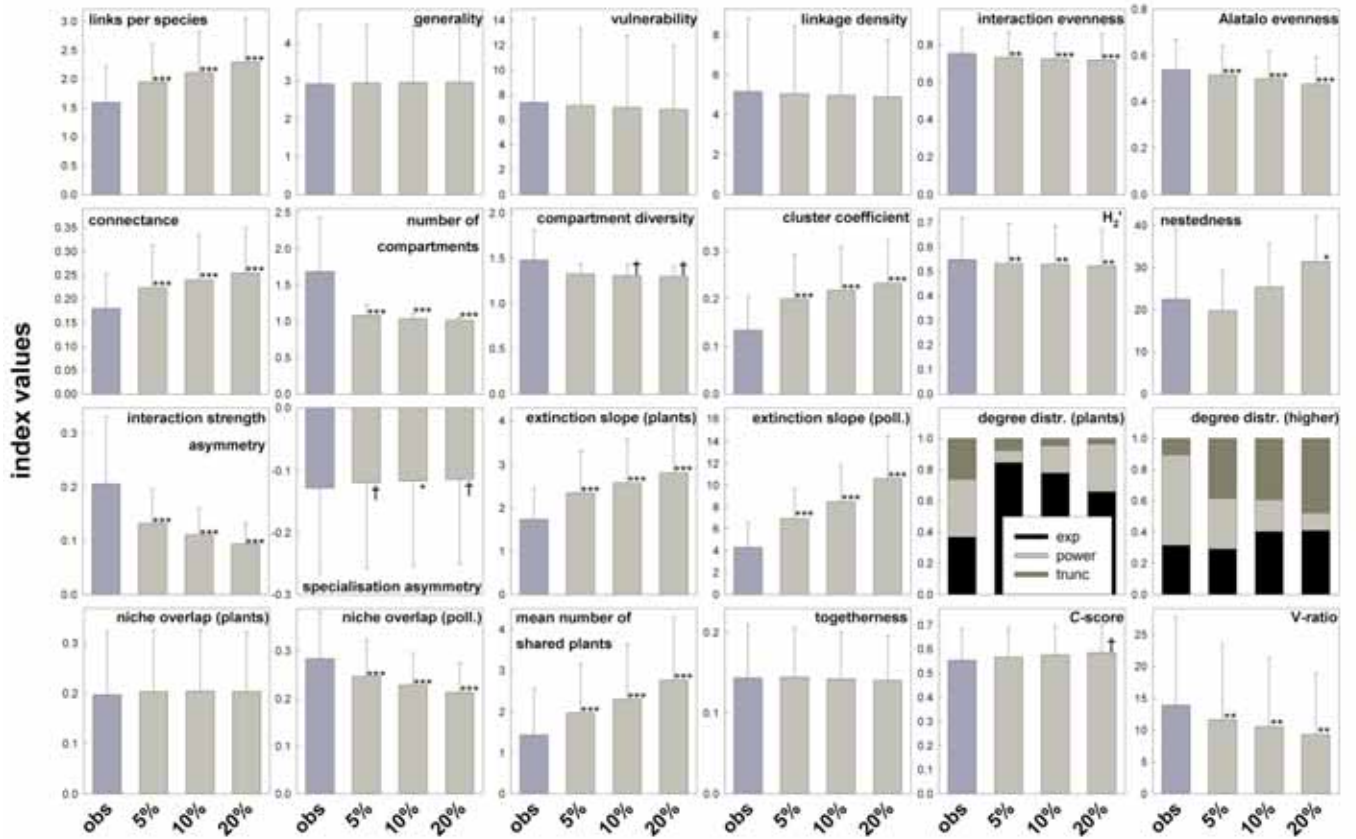


Fig. (S2). Effect of different levels of interaction perturbation on index values. Data from 19 pollination networks (observed values: dark gray) and 5, 10 and 20% random re-allocation of interactions (means of 1000 replicates: light gray). Error bars are 1 SD across the 19 networks; †, *, ** and *** indicate t-test P values of <0.1, 0.05, 0.01 and 0.001, respectively.

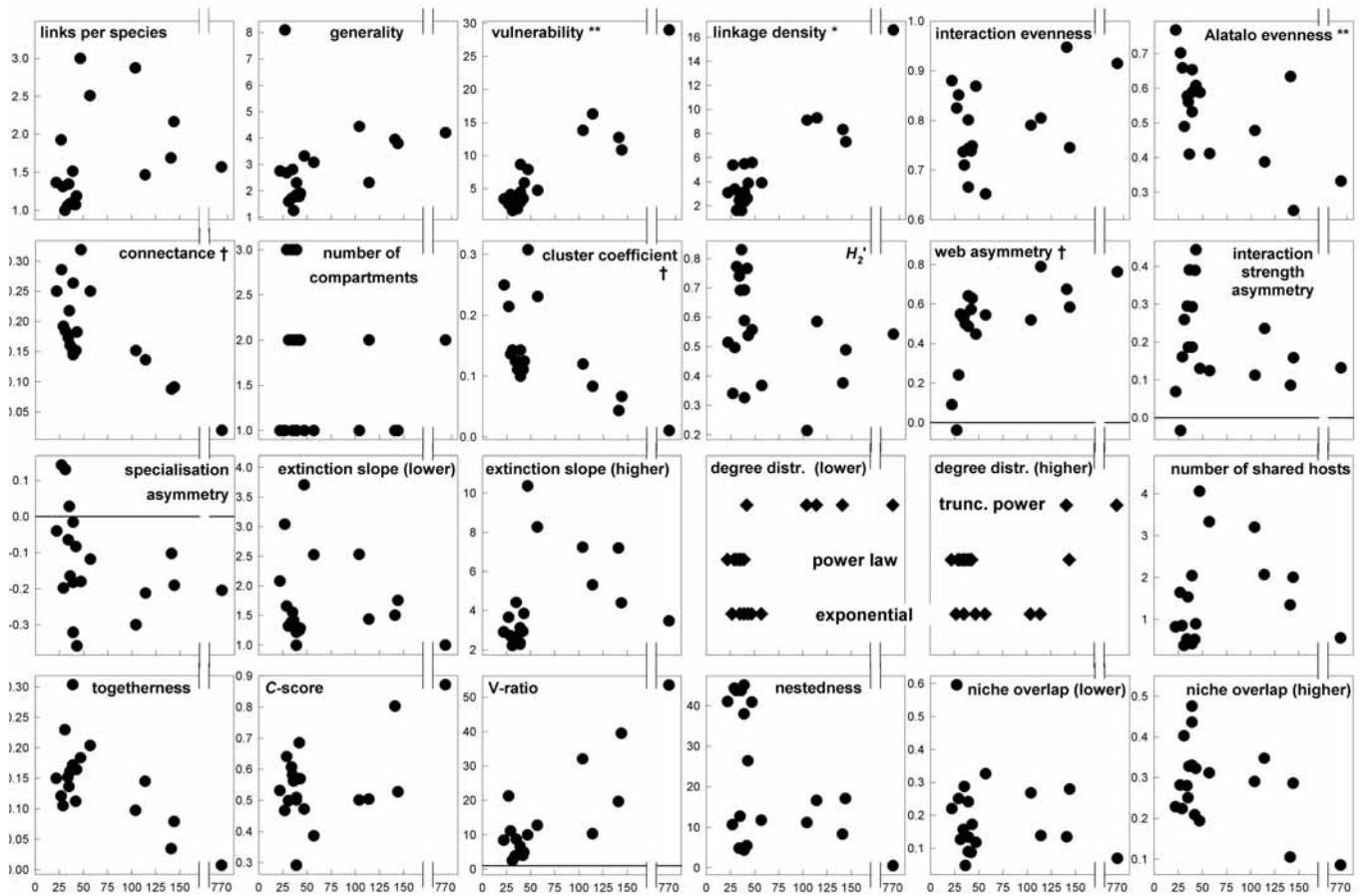


Fig. (S3). Observed network index values against network dimensions (expressed as sum of species in both trophic levels; see also Fig. (2)). Symbols near the index name indicate the significance of the correlation (Kendall's τ , as a conservative estimator): †, * and ** refer to $24 * P < 0.1, 0.05$ and 0.01 , respectively, corrected for multiple testing (by multiplying the obtained P -value). Notice break in x -axes to depict the very large web of Kato *et al.* (1990) with 770 species.

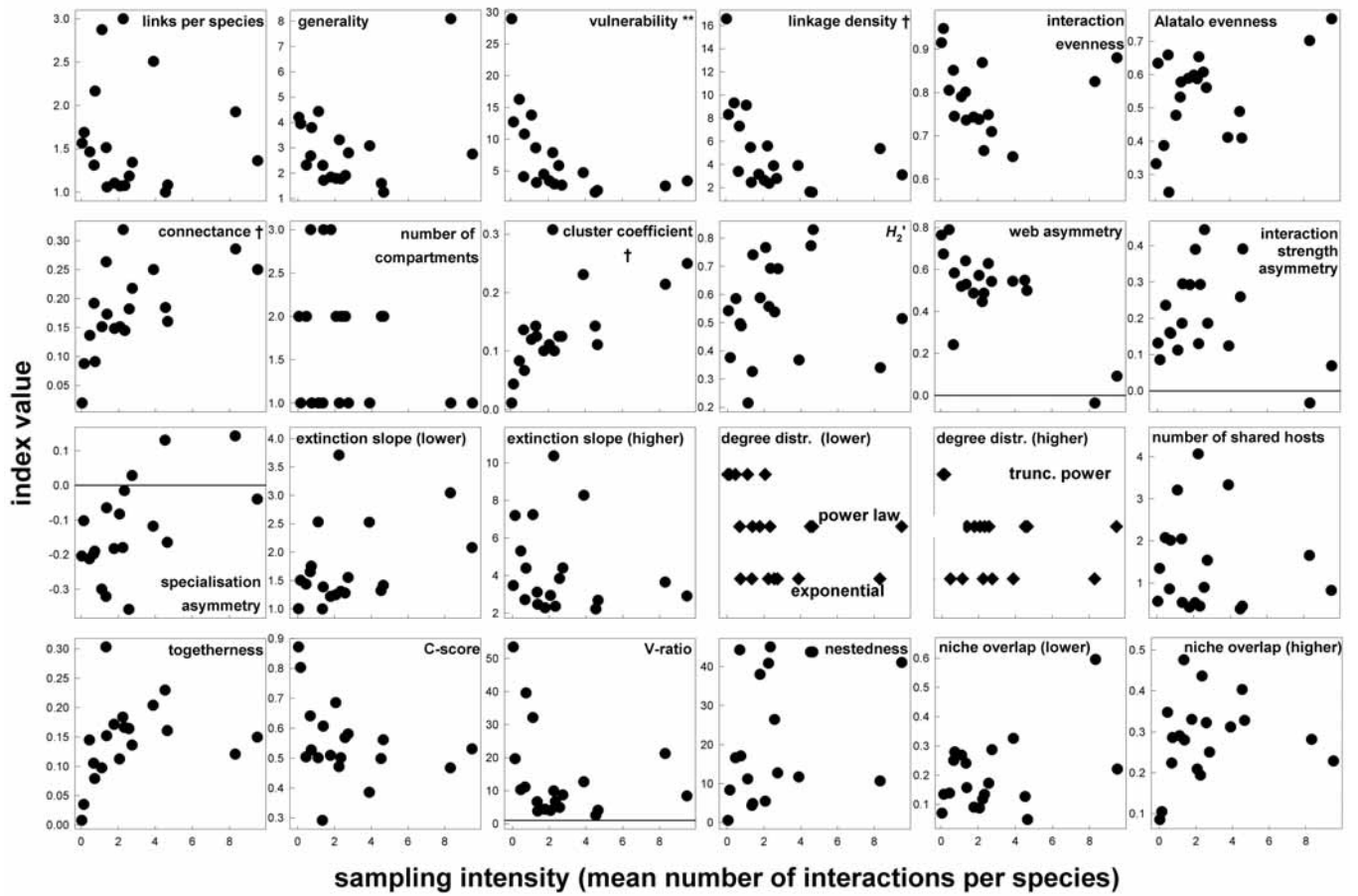


Fig. (S4). Observed network index values against sampling intensity (measured as mean number of interactions per species; see Fig. (3)). Symbols near the index name indicate the significance of the correlation (Kendall's τ , as a conservative estimator): † and ** refer to $24 * P < 0.1$ and 0.01 , respectively, corrected for multiple testing (by multiplying the obtained P -value).

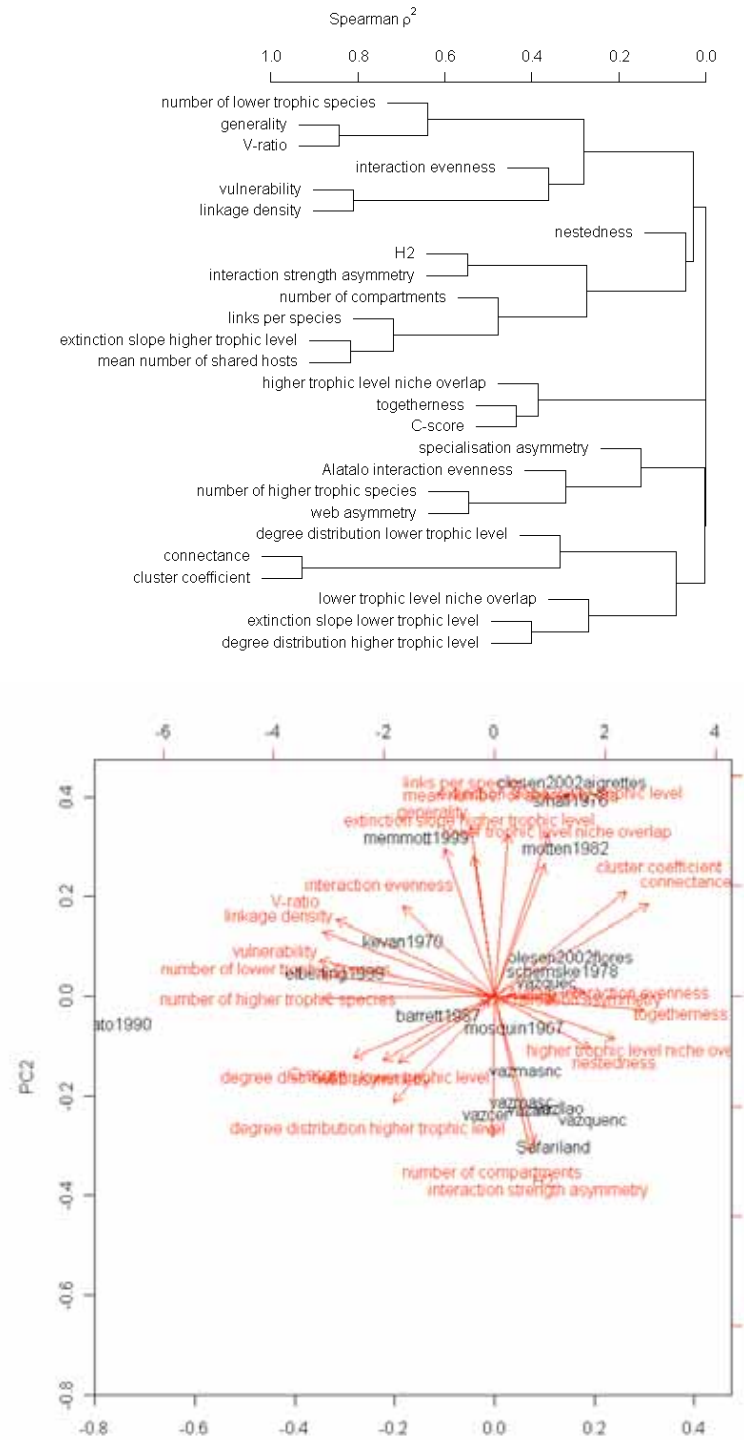


Fig. (S5). Clustering and PCA including the network of Kato *et al.* (1990). Compare to Fig. (4). Note that now the first PC is dominated by the network of Kato *et al.* (1990), which holds by far the most pollinators.

Table S1. Correlation of Network Indices Based on the 19 Observed Pollination Networks: Upper Triangle is Kendall's τ , Lower are Pearson's r . Bold Printed Values are Significant at 0.05

	number of higher trophic species	number of lower trophic species	links per species	generality	vulnerability	linkage density	interaction evenness	Alatalo interaction evenness	connectance	number of compartments	cluster coefficient	H2	web asymmetry	interaction strength asymmetry	specialization asymmetry	extinction slope lower trophic level	extinction slope higher trophic level	degree distribution lower trophic level	degree distribution higher trophic level	higher trophic level niche overlap	lower trophic level niche overlap	mean number of shared hosts	togetherness	C-score	V-ratio	nestedness
1	1	0.417	0.312	0.347	0.653	0.547	0.194	-0.429	-0.507	-0.183	-0.515	-0.229	0.537	-0.076	-0.406	-0.124	0.371	0.183	0.085	-0.124	-0.100	0.236	-0.218	0.100	0.406	-0.300
2	0.977	1	0.541	0.613	0.457	0.577	0.360	-0.084	-0.319	-0.254	-0.318	-0.421	-0.060	-0.457	-0.180	0.360	0.348	0.194	-0.079	-0.360	0.120	0.283	-0.481	0.012	0.769	-0.132
3	0.070	0.2	1	0.684	0.427	0.579	0.392	-0.099	0.141	-0.588	0.089	-0.614	-0.023	-0.556	-0.240	0.462	0.696	-0.175	-0.306	-0.181	0.322	0.669	-0.193	-0.216	0.661	-0.193
4	0.226	0.354	0.546	1	0.462	0.661	0.544	0.006	0.035	-0.501	-0.006	-0.626	0.035	-0.661	-0.111	0.380	0.520	-0.077	-0.214	-0.357	0.404	0.481	-0.392	-0.018	0.766	-0.322
5	0.873	0.863	0.306	0.275	1	0.801	0.474	-0.275	-0.293	-0.138	-0.292	-0.392	0.434	-0.193	-0.579	-0.041	0.427	0.189	0.076	-0.193	0.006	0.387	-0.251	0.076	0.462	-0.322
6	0.852	0.869	0.398	0.466	0.979	1	0.556	-0.193	-0.094	-0.298	-0.149	-0.567	0.305	-0.392	-0.404	0.135	0.509	0.049	-0.107	-0.205	0.181	0.540	-0.310	-0.029	0.637	-0.357
7	0.346	0.386	0.332	0.485	0.524	0.586	1	0.228	-0.035	-0.196	-0.018	-0.404	0.070	-0.439	-0.216	0.111	0.251	0.161	0.138	-0.415	0.018	0.235	-0.357	0.158	0.404	-0.193
8	-0.481	-0.479	-0.244	0.070	-0.533	-0.475	0.282	1	0.27	0.036	0.280	-0.076	-0.411	-0.064	0.228	0.111	-0.146	-0.063	0.092	-0.135	0.064	-0.141	0.018	0.064	-0.088	0.158
9	-0.634	-0.619	0.281	0.138	-0.598	-0.521	-0.048	0.489	1	-0.240	0.872	-0.106	-0.347	-0.129	0.176	0.305	0.094	-0.577	-0.437	0.012	0.305	0.253	0.422	-0.387	-0.152	0.059
10	0.033	-0.053	-0.637	-0.507	-0.124	-0.221	-0.203	0.074	-0.329	1	-0.236	0.472	-0.015	0.544	-0.065	-0.443	-0.559	0.313	0.342	0.123	-0.399	-0.546	0.051	0.341	-0.399	0.196
11	-0.511	-0.468	0.420	0.158	-0.500	-0.426	0.003	0.435	0.923	-0.344	1	-0.054	-0.352	-0.137	0.185	0.316	0.065	-0.478	-0.420	-0.006	0.256	0.227	0.399	-0.387	-0.173	0.125
12	-0.085	-0.194	-0.666	-0.653	-0.354	-0.464	-0.582	-0.029	-0.166	0.536	-0.153	1	0.035	0.567	0.251	-0.287	-0.380	0.175	0.153	0.076	-0.520	-0.551	0.158	0.228	-0.556	0.251
13	0.421	0.315	-0.063	-0.445	0.542	0.405	-0.091	-0.642	-0.584	0.097	-0.619	0.159	1	0.164	-0.293	-0.364	0.152	0.204	0.276	0.023	-0.129	0.100	-0.117	0.188	0.047	-0.364
14	-0.178	-0.293	-0.597	-0.799	-0.270	-0.418	-0.558	-0.107	-0.245	0.580	-0.312	0.69	0.441	1	-0.135	-0.485	-0.298	0.049	0.184	0.251	-0.368	-0.328	0.216	0.170	-0.520	0.193
15	-0.206	-0.194	-0.239	0.232	-0.459	-0.373	-0.268	0.328	0.213	-0.071	0.225	0.347	-0.474	-0.261	1	0.158	-0.240	-0.105	-0.092	-0.064	0.064	-0.235	0.064	-0.053	-0.181	0.111
16	-0.248	-0.124	0.805	0.578	-0.129	0.004	0.218	0.179	0.625	-0.512	0.769	-0.415	-0.525	-0.586	0.162	1	0.415	-0.203	-0.52	-0.228	0.415	0.434	-0.170	-0.240	0.357	0.111
17	0.013	0.075	0.869	0.317	0.275	0.321	0.322	-0.164	0.252	-0.58	0.382	-0.483	0.161	-0.417	-0.231	0.705	1	-0.119	-0.382	-0.228	0.275	0.762	-0.216	-0.076	0.450	-0.216
18	0.399	0.361	-0.197	-0.120	0.471	0.408	0.182	-0.074	-0.657	0.309	-0.547	0.109	0.324	0.095	-0.081	-0.346	-0.096	1	0.367	-0.175	-0.414	-0.260	-0.400	0.414	-0.007	-0.077
19	0.477	0.443	-0.493	-0.235	0.30	0.226	0.151	-0.006	-0.642	0.322	-0.599	0.183	0.275	0.204	-0.116	-0.648	-0.429	0.390	1	-0.138	-0.428	-0.476	-0.184	0.520	-0.153	-0.031
20	-0.517	-0.564	-0.232	-0.357	-0.444	-0.485	-0.587	-0.045	0.302	0.083	0.110	0.097	0.024	0.346	-0.013	-0.204	-0.331	-0.357	-0.311	1	0.053	-0.059	0.497	-0.532	-0.287	0.263
21	-0.258	-0.149	0.372	0.760	-0.215	-0.037	0.184	0.196	0.481	-0.463	0.381	-0.585	-0.606	-0.639	0.311	0.509	0.123	-0.503	-0.516	0.098	1	0.422	-0.076	-0.240	0.357	-0.099
22	-0.109	-0.031	0.928	0.375	0.194	0.259	0.261	-0.225	0.446	-0.641	0.500	-0.603	0.038	-0.484	-0.280	0.749	0.891	-0.305	-0.652	-0.037	0.358	1	-0.117	-0.270	0.434	-0.188
23	-0.579	-0.653	-0.110	-0.420	-0.543	-0.589	-0.465	0.142	0.663	-0.023	0.504	0.104	-0.056	0.257	0.001	0.011	-0.097	-0.522	-0.358	0.805	0.033	0.144	1	-0.520	-0.462	0.251
24	0.613	0.598	-0.262	0.045	0.453	0.427	0.327	-0.026	-0.700	0.287	-0.580	0.238	0.234	0.061	0.033	-0.331	-0.114	0.608	0.647	-0.798	-0.396	-0.456	-0.839	1	0.006	-0.076
25	0.781	0.883	0.465	0.600	0.794	0.859	0.434	-0.519	-0.524	-0.301	-0.388	-0.464	0.162	-0.509	-0.196	0.107	0.226	0.217	0.215	-0.496	0.181	0.216	-0.693	0.408	1	-0.205
26	-0.393	-0.388	-0.204	-0.388	-0.476	-0.521	-0.376	0.290	0.233	0.285	0.326	0.376	-0.367	0.228	0.135	0.107	-0.180	-0.152	-0.027	0.274	-0.268	-0.209	0.29	-0.207	-0.447	1