

Results of metastudy for logistic-J distribution

The following tables display the results of the metastudy as they pertain to the logistic-J distribution alone. Beside each biosurvey index number is the number R of species in the corresponding sample, the number Fa of species having minimum abundance, the average abundance μ , and parameter values. The parameter Δ' is the observed maximum abundance, Δ is the predicted maximum abundance, and ϵ is the predicted epsilon-value. The last three columns contain the chi square score achieved by the Fa- μ fitting process, the same score normalized to 10 degrees of freedom, and the ratio of actual to predicted maximum abundance, expressed as a percentage.

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
1	222	4.8	9.338	52	70.0	0.907	18.55 /18	10.25	74.3
2	79	14	6.901	25	37.2	2.279	5.22 /8	6.91	67.2
3	31	6	5.548	32	27.6	2.478	4.64 /3	13.40	115.9
4	41	9	29.44	297	268.7	1.209	0.281/4	2.47	110.5
5	87	9	66.88	704	571.8	3.844	5.71/12	4.19	123.1

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
6	39	4	622.0	6053.7	5769.4	26.11	6.695/5	12.59	104.9
7	38	7	5.470	16	25.8	3.048	1.490/4	7.36	62.0
8	36	12	25.47	173	255.9	0.7265	0.5395/3	4.69	67.6
9	44	12	443.0	5797	6527.9	1.559	1.039/5	3.71	88.8
10	79	23	4.259	27	25.5	0.8293	7.633/6	12.28	101.9

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
11	33	7	47.79	285	397.2	3.083	0.4434 /3	4.30	71.8
12	49	16	3.690	44.4	42.1	0.057	0.4424 /5	2.47	105.5
13	183	71	7.344	37	55.5	0.693	4.0441/9	5.16	66.7
14	41	35	35.68	406	362.5	0.9667	40.066/29	16.64	112.0
15	36	10	73.17	656	789.5	1.4885	5.5238/3	14.82	83.1

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
16	30	7	535.5	4716	8846.4	0.8545	4.8641/3	13.76	53.3
17	86	26	7.880	74.9	70.4	0.3763	7.7786/8	9.83	106.4
18	40	17	8.812	70	113.6	0.0701	0.0701/3	7.91	61.6
19	66	26	8.764	67.5	104.2	0.1090	5.8973/5	11.51	64.8
20	41	14	59.29	768	1051.4	0.0550	3.3584/4	9.35	73.0

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
21	113	24	39.22	1196	492.1	0.3639	23.456/14	17.22	240.0
22	78	18	69.04	839	927.7	0.4317	16.746/10	16.75	90.4
23	70	8	30.07	208	266.8	1.5090	4.2951/8	5.82	78.3
24	54	11	187.1	3829	2835.7	0.5959	6.2588/7	9.21	135.0
25	130	23	165.0	2764	2297.7	0.8304	23.959/17	15.34	120.3

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
26	222	31	5.809	37.9	68.8	0.0740	7.1344/5	13.22	55.1
27	140	70	6.971	77	100.7	0.0280	9.6287/9	10.70	76.5
28	295	80	6.763	48	51.1	0.6570	8.7739/18	3.60	93.9
29	63	17	9.238	63	81.1	0.4756	2.8055/6	5.77	77.7
30	620	118	14.57	194	122.9	0.8824	38.357/41	3.91	157.9

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
31	54	15	73.59	2073	1234.7	0.1097	11.3769/6	16.86	50.9
32	203	57	54.82	2324	725.9	0.3740	37.263/20	22.97	320.2
33	39	10	90.33	713	995.1	1.6595	3.1228/4	9.92	71.7
34	143	55	14.92	184.1	133.7	0.7053	13.2556/10	14.26	137.7
35	31	9	40.87	168	478.2	0.5525	4.4388/3	13.08	35.1

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
36	35	12	54.33	464	616.9	0.8571	2.3726/3	9.35	75.2
37	45	9	14.02	192	120.3	0.7942	11.505/5	18.84	159.6
38	42	14	1.492	18.54	18.5	0.0148	9.3077/4	18.06	100.0
39	71	11`	365.2	5175	4947.5	2.1746	18.6046/10	18.60	104.6
40	195	31	3.644	20.0	25.3	0.2877	27.078/15	20.13	79.1

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
41	108	30	41.27	508.6	604.0	0.1518	9.5463/12	9.55	84.2
42	56	15	370.5	9418	5170.0	1.8414	8.2422/6	13.04	182.2
43	40	7	59.56	578.4	626.7	1.3672	0.7074/5	2.94	92.3
44	67	31	4.973	54.8	55.9	0.0828	7.6630/4	15.82	98.0
45	43	11	26.21	229	324.1	0.2634	0.7369/4	4.01	70.7

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
46	34	8	445.4	4433	4992.3	7.5043	0.2439/3	3.39	88.8
47	53	26	1561	54273	42918.5	0.0170	3.4966/4	9.49	126.5
48	105	22	53.12	1320	789.4	0.1768	12.8128/10	12.81	167.2
49	100	23	30.17	276	290.9	1.0361	17.6269/11	16.33	94.8
50	48	14	78.58	1058	1169.2	0.3596	5.1224/5	10.43	90.5

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
51	46	18	21.89	337	346.3	0.0476	0.9643/4	4.58	97.3
52	82	24	7.671	157	65.9	0.4329	14.6702/7	18.98	238.2
53	39	14	126.6	1625	2195.3	0.1400	4.0202/3	12.39	74.0
54	53	22	10.66	185.5	208.2	0.0044	2.8309/4	8.39	89.1
55	116	21	105.5	1743	1330.4	0.9517	13.9705/15	9.05	131.0

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
56	36	9	120.1	1115	1427.4	1.4936	6.7759/4	14.95	78.1
57	32	11	3.125	31.7	28.0	0.1468	1.8438/2	10.40	113.2
58	40	7	130.5	1009.9	998.2	11.726	1.3529/4	5.50	101.2
59	181	49	10.96	167	104.3	0.3989	14.787/16	8.92	160.1
60	44	15	16.18	99	162.4	0.4633	2.1758/4	7.20	61.0

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
61	36	12	5.573	35.9	28.0	2.4197	0.5312/2	6.51	94.5
62	81	15	78.57	1067	923.8	1.0356	9.8996/10	9.90	115.5
63	41	9	9.610	61	73.8	0.8468	4.9002/4	11.78	82.7
64	35	7	140.9	2716	1558.2	2.5421	3.3237/4	9.28	174.3
65	43	8	1341	20,190	21,119	3.0186	2.7733/5	6.83	95.6

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
66	38	11	17.42	335	206.2	0.2274	3.3063/4	9.25	162.5
67	36	8	20.72	146	166.5	1.5305	0.1229/3	2.61	87.7
68	75	18	48.84	467	570.0	0.6692	10.1624/8	11.26	81.9
69	73	25	4.880	34	38.2	0.4012	3.1293/6	6.25	89.0
70	39	9	7.950	26	57.5	0.8822	4.5086/4	11.16	45.1

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
71	34	7	15.97	78	81.6	6.4782	4.1511/3	12.62	95.6
72	81	18	27.88	209	324.7	0.3863	10.1709/9	11.27	64.4
73	34	6	103.4	1029	1144.2	1.8620	2.5627/4	7.90	89.9
74	79	17	25.51	162	248.1	0.8434	0.3078/5	1.61	65.3
75	41	10	799.4	6285	12,697	1.6910	2.9621/5	7.18	49.5

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
76	50	12	132.5	2084	2308.2	0.1414	11.4995/6	17.01	90.4
77	36	10	48.60	309	739.5	0.1382	2.6965/3	9.95	41.8
78	36	10	2.778	15.2	36.9	0.0193	2.4169/4	7.62	41.2
79	60	23	7.033	61	74.3	0.1585	12.2579/5	19.77	82.1
80	51	10	89.20	761	983.1	1.6351	4.8208/6	8.62	77.4

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
81	32	11	91.16	1195	1795.2	0.0351	4.0404/4	10.42	66.2
82	37	15	21.49	3470	2304.9	0.0387	8.5866/3	19.40	150.5
83	36	14	1.519	11.7	21.54	0.0068	1.8215/3	8.11	54.4
84	46	15	74.59	1247	1097.9	0.1729	4.7117/4	11.48	113.6
85	31	26	6.405	146	168.9	0.0001	0.6349/1	10.01	86.4

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
86	50	15	68.74	675	1006.5	0.2521	8.5065/5	15.04	67.1
87	121	51	4.339	38	40.2	0.1773	13.4560/8	16.09	94.5
88	31	14	39.79	609	445.6	0.6731	6.8828/6	11.32	136.7
89	62	14	6.694	37	43.2	1.1432	7.6460/6	12.30	85.6
90	51	10	14.78	161	128.1	0.8033	5.0197/6	8.89	125.7

#	R	Fa	μ	Δ'	Δ	ϵ	Fa- μ score	normalized	Δ'/Δ
91	61	13	7.443	24	33.0	1.1967	7.622 /6	6.75	72.7
92	29	8	3.459	15.4	39.4	0.0540	0.5681/2	6.70	39.1
93	58	26	1.879	18.5	22.9	0.0203	6.6478/5	12.58	80.8
94	47	15	629.8	7912	11003	0.6575	4.4453/5	9.47	71.9
95	38	9	39.95	262	330.2	2.6381	8.8212/4	17.50	79.3

#	R	F _a	μ	Δ'	Δ	ϵ	F _a - μ score	normalized	Δ'/Δ
96	118	26	35.57	780	428.3	0.4136	20.372/15	14.46	182.1
97	52	13	11.92	126	110.6	0.4856	5.3194/5	10.71	113.9
98	38	10	127.6	1279	2005.9	0.2908	2.6119/4	7.99	63.8
99	35	17	24.63	249	414.6	0.0342	11.0463/2	22.63	60.1
100	50	18	269.0	2830	4926.7	0.1924	3.0045/5	5.83	57.4

#	R	F _a	μ	Δ'	Δ	ϵ	F _a - μ score	normalized	Δ'/Δ
101	32	9	55.91	260	549.5	1.7626	0.5664/3	4.35	47.3
102	31	10	19.19	124	197.3	0.4917	1.9449/2	10.63	62.8
103	34	10	6.88	32	56.2	0.4758	2.4368/3	9.47	56.9
104	49	10	16.78	148	156.7	0.6635	5.9845/6	11.64	94.4
105	30	11	213.4	2681	3176.0	0.4758	4.1667/2	15.16	84.4

#	R	F _a	μ	Δ'	Δ	ϵ	F _a - μ score	normalized	Δ'/Δ
106	61	19	7.23	56	41.7	1.8601	6.3239/5	12.12	134.3
107	34	6	172.5	1080	1067.7	34.282	0.9082/3	5.83	101.1
108	170	24	109.5	6379	1495.2	0.6218	27.128/23	12.54	426.6
109	37	15	7.13	78	80.4	0.1169	2.7795/3	10.10	97.0
110	51	9	57.4	1057	732.2	0.4872	3.2564/6	6.64	144.4

#	R	F _a	μ	Δ'	Δ	ϵ	F _a - μ score	normalized	Δ'/Δ
111	39	10	42.05	441	591.5	0.1990	3.1687/4	9.00	74.6
112	29	5	0.242	2.30	1.77	0.0259	0.1989/3	2.41	129.9
113	53	16	0.051	1.64	0.68	0.0003	7.7344/5	14.01	241.2
114	46	20	73.35	740	1446.2	0.0279	5.0963/4	12.09	51.2
115	33	8	9.757	37	64.4	2.8463	1.5775/3	7.56	57.7

#	R	F _a	μ	Δ'	Δ	ϵ	F _a - μ score	normalized	Δ'/Δ
116	31	9	3.223	24.6	31.9	0.0982	0.9271/3	5.89	77.1
117	31	5	178.1	2836	2435.5	1.0024	7.0013/3	17.10	116.4
118	29	8	7.32	47.0	58.5	0.5535	1.3449/2	9.20	80.3
119	31	7	608.5	5879	5847.2	0.9415	4.3255/3	12.90	100.5
120	35	6	3.609	18.6	19.5	1.1770	4.0507/4	10.44	95.4

#	R	F _a	μ	Δ'	Δ	ϵ	F _a - μ score	normalized	Δ'/Δ
121	123	39	3.665	49.2	56.4	0.0096	10.445/13	7.72	87.2
122	64	17	12.14	130	118.3	0.3972	3.0635/8	6.15	109.9
123	51	12	123.5	2600	2104.8	0.1560	6.7817/6	11.19	123.5
124	75	13	196.2	5454	3257.4	0.3154	11.5556/10	11.56	167.4
125	29	5	16.14	118	94.3	3.9660	2.7115/3	9.97	125.1