	interval	avg depth	AGE (ka)	*Acetabulastoma arcticum* Schornik	*Argilloecia* spp.	*Bythocythere constricta* Sars 1866	*Bythoceratina scaberrima* (Brady 18	*Cluthia cluthae* (Brady, Crosskey &	*Cluthia whatleyi* Yasuhara, Stepano	*Cytheretta teshekpukensis* Swain 1	*Cytheromorpha macchesneyi* (Brad	*Cytheropteron arcuatum* Brady, Cro	*Cytheropteron higashikawai* Ishizak	*Cytheropteron inflatum Brady*, Cros
32-MC4	0-1	0.5	0.5745	6.5	0.5	3	0	0	5.3	0	0	0	1.4	0
32-MC4	1-2	1.5	1.6882	11	0.4	2.7	0	0	7.8	0	0	0.2	0.4	0
32-MC4	2-3	2.5	2.8018	8.7	1.4	2.3	0	0	13	0	0	0	1.4	0
32-MC4	3-4	3.5	4.4705	8.7	1.8	2.6	0	0	14	0	0	0	2.4	0
32-MC4	4-5	4.5	6.1393	8	4.9	1.2	0	0	9.4	0	0	0	2.1	0
32-MC4	5-6	5.5	7.971	7	8.4	2.6	0	0	1.8	0.1	0	0	1	0
32-MC4	6-7	6.5	8.109	3.3	7	2.3	0	0	6.3	0	0	0	1.7	0
32-MC4	7-8	7.5	8.247	4.1	4.6	2.4	0	0	11	0	0	0	1.6	0
32-MC4	8-9	8.5	8.385	3.3	5	0.7	0	0	7.7	0	0	0	2.3	0
32-MC4	9-10	9.5	9.5334	2.7	2	1.7	0	0	3.3	0	0.3	0	2.7	0
32-MC4	10-11	10.5	10.682	1.3	3.9	0	0	0	5.2	0	0	0	2.6	0
32-MC4	11-12	11.5	11.83	0.5	2.5	0.5	0	0	1	0	0.5	0	3.8	0
32-MC4	12-13	12.5	12.014	0.2	4.8	0.9	0	0	0	0	0.4	0	3.7	0
32-MC4	13-14	13.5	12.197	0.7	2	1.7	0.7	0	0	0	0.3	0	3.6	0
32-MC4	14-15	14.5	12.38	1	2.3	0.7	0.3	0	0	0	0.3	0	1	0
32-MC4	15-16	15.5	14.232	0.3	2.6	1	0.3	0	0	0	0	0	2.6	0
32-MC4	16-17	16.5	16.083	0.3	1.3	3.7	0	0	0	0	0	0	0.7	0

32-MC4	17-18	17.5	17.934	1.4	0.5	3.8	0	0	0.2	0	0	0	1.4	0
32-MC4	18-19	18.5	19.785	1.7	0.3	1.7	0	0	0	0	0	0	0.7	0
32-MC4	19-20	19.5	21.637	5.2	0	2.6	0.7	0	0	0	0.3	0	1.3	0
32-MC4	20-21	20.5	23.794	3.3	0.3	2.9	0	0	0	0	0	0	2.3	0
32-MC4	21-22	21.5	25.951	1.5	0.3	3.9	0.3	0	0	0	0	0	0.6	0
32-MC4	22-23	22.5	28.108	1.6	0.2	4	0.2	0	0	0	0	0	0	0
32-MC4	23-24	23.5	30.266	0.6	0	6.1	0.9	0	0.3	0	0	0	0.6	0
32-MC4	24-25	24.5	32.423	3.1	0	2.2	0.7	0	0	0	0	0	0.3	0.1
32-MC4	25-26	25.5	33.449	3.2	0	4.6	0	0	0	0	0	0	0	0
32-MC4	26-27	26.5	34.476	2.3	0	2.7	0	0	0	0	0	0	0	0
32-MC4	27-28	27.5	35.502	1.8	0	1.4	0.2	0	0	0	0	0	0.4	0
32-MC4	28-29	28.5	36.528	4.6	0	2.2	0.4	0	0	0	0	0	0	0
32-MC4	29-30	29.5	37.555	7.6	0.3	0	0.3	0	0	0	0	0	0	0
32-MC4	30-31	30.5	38.581	5.3	0	0.8	0.2	0	0.2	0	0	0	0	0
32-MC4	31-32	31.5	39.607	4.9	0	1.3	0	0	0.7	0	0	0	0	0

Cytheropteron parahamatum Yasul	*Cytheropteron scoresbyi* Whatley a	*Cytheropteron sedovi* Schneider 19	*Cytheropteron suzdalskyi* Lev 1972	*Cytheropteron* spp.	Cytheropteron TOTAL	*Eucythere* sp.	*Eucytherurua delineata* Whatley and	*Heterocyprideis fascis* (Brady and N	*Heterocyprideis sorbyana* (Jones 18	*Krithe hunti* Yasuhara, Stepanova, C	*Krithe minima* Coles, Whatley, & Mc	*Microcythere medistriata* (Joy and C	*Paracytherois* spp.	*Pedicythere* spp.	*Polycope* spp.	*Propontocypris* sp.	*Pseudocythere caudata* Sars 1866
1.3	9.4	0.3	0	0.1	13	0	0	0	0	1.4	0	0.7	0.9	0.3	58	1.4	1.5
1.1	10	0	0	0	12	0	0	0	0	2.1	0	0.8	3.6	0	50	0.6	0.6
2.6	18	0	0	0	21	0	0	0	0	2.1	0	0.2	6.8	1	29	1.7	1.6
4.7	14	0	0	0	21	0	0	0	0	1	0	0.8	8.1	0.4	24	0.4	1
6.8	25	0	0	0	33	0.2	0	0	0	2.4	0	0	5.2	0.2	14	1.4	1.9
7.8	17	0	0	0	26	0	0	0	0	3.1	0	0.1	7.3	0.9	18	0.1	0.9
6.6	12	0.3	0	0	20	0	0	0	0	7.6	0	0	6.6	1	9.9	0	1.3
8.9	13	0.3	0	0	24	0	0	0	0	6.8	0.8	0.3	6.8	0.5	9.2	0	1.1
8	9.3	0	0	0	20	0	0	0	0	7.3	2	0	2	0	8.7	0	1.3
15	13	0	0	0	30	0	0	0	0	9	0	0	2.7	0.3	13	0.3	1.3
24	8.5	0	0	0	36	0	0	0	0	5.9	0	0.3	6.2	0.7	21	1.6	1.6
17	14	0.5	0	0	36	0	0	0	0	1	0	1.8	1.8	2	46	1	2
12	13	1.1	0	0	30	0	0	0	0	0	0	2.2	3.5	2.2	48	0.9	4.6
11	10	3	0	0	28	0	0	0	0	0.3	0	5	0.7	2	49	1	9.6
5	8.9	2.3	0	0	17	0	0	0	0	0.3	0	1.3	3.3	2.6	57	0.7	12
3.1	7.2	4.9	0	0	18	0	0	0	0	0.5	0	2.8	2.1	2.3	56	0.5	14
3.3	6.3	13	0	0	24	0	0	0	0	1	0	4	2.7	0.7	58	0.3	4.3

1.6	6.4	16	0	0.2	26	0	0	0	0	0.3	0	2.4	0.8	0	56	0	8.8
1	9.6	17	0	0.3	29	0	0	0	0	0.3	0	5.3	1	0.3	59	0.3	1
0	6.2	12	0	0	19	0	0	0	0	0.3	0	2.6	0	1.6	65	0	1.6
2.3	17	12	0	0	34	0	0	0	0	0.3	0	5.6	0.7	2.3	47	0	2.9
1.8	9.8	11	0	0	23	0	0	0	0	0.6	0	5.4	2.4	1.2	58	0	3
0.4	11	13	0	0	25	0	0	0	0	0.4	0	6.9	0.2	2.7	57	0	0
0	8.1	11	0	0	20	0	0	0	0	0.6	0	3.8	0	4	52	0	10
0.3	9.6	9.3	0	0.1	20	0	0	0	0	0.3	0	5	0.6	1.6	54	0.1	12
0.5	12	11	0	0.5	24	0	0	0.2	0	1.1	0	3.4	2.3	2.7	47	0	11
0	9.3	16	0	0.3	25	0	0	0	0	1.7	0	4.7	0.3	0.7	57	0.3	3.7
0	7.6	11	0	0	19	0.2	0	0	0	2.8	0	5.4	0.2	1.6	64	0.8	0.8
0	5.2	11	0	0	16	0	0	0	0	4.2	0	4.8	0	0.4	61	0.4	2
0.7	9.3	19	0	0	29	0.3	0	0	0	6.6	0	7.9	0	0.3	39	0.3	2
0	2.1	9	0.2	0	11	0	0	0	0	7.6	0	6.9	1	0.5	56	0.2	1.2
0	2.6	13	0	0	16	0.3	0	0	0	7.8	0	6.2	1.3	0.3	44	0.3	0.7

Rabilimis mirabilis (Brady 1868)	*Sarsicytheridea bradii* (Norman 186	*Sclerochilus* spp.	*Semicytherura complanata* (Brady,	*Semicytherura* spp.	Other	Indeterminate/IRO	Total	Total species count	Confidence limits	*Acetabulastoma arcticum* Schornik	*Argilloecia* spp.	*Bythocythere constricta* Sars 1866	*Bythoceratina scaberrima* (Brady 18	*Cluthia cluthae* (Brady, Crosskey &	*Cluthia whatleyi* Yasuhara, Stepano	*Cytheretta teshekpukensis* Swain 1	*Cytheromorpha macchesneyi* (Brad
6.8	0	0	0	0	0.7	0	100	864		1.6	0.5	1.1	0	0	1.5	0	0
7.8	0	0	0	0	0.2	0	100	527		2.7	0.5	1.4	0	0	2.3	0	0
9	0	0	0	0	1.2	0	100	577		2.3	1	1.2	0	0	2.8	0	0
15	0	0	0	0	0.4	0	100	493		2.5	1.2	1.4	0	0	3.1	0	0
17	0	0	0	0	0.9	0	100	577		2.2	1.8	0.9	0	0	2.4	0	0
23	0.1	0	0	0	0.4	0	100	682		1.9	2.1	1.2	0	0	1	0.3	0
34	0	0	0	0	0	0	100	302		2	2.9	1.7	0	0	2.7	0	0
28	0	0	0	0	0	0	100	369		2	2.1	1.6	0	0	3.2	0	0
41	0	0	0	0	1.7	0	100	300		2	2.5	0.9	0	0	3	0	0
33	0	0	0	0	0.3	0	100	301		1.8	1.6	1.4	0	0	2	0	0.7
16	0	0	0	0	1.3	0	100	307		1.3	2.2	0	0	0	2.5	0	0
3	0	0	0	0	0.5	0	100	396		0.7	1.5	0.7	0	0	1	0	0.7
2.2	0	0	0	0	0	0	100	460		0.4	2	0.8	0	0	0	0	0.6
0	0	0	0	0	0	0	100	303		0.9	1.6	1.4	0.9	0	0	0	0.6
0	0.3	0	0	0	0	0	100	303		1.1	1.7	0.9	0.6	0	0	0	0.6
0	0	0	0	0	0	0	100	389		0.5	1.6	1	0.5	0	0	0	0
0.3	0	0	0	0	0	0	100	300		0.7	1.3	2.1	0	0	0	0	0

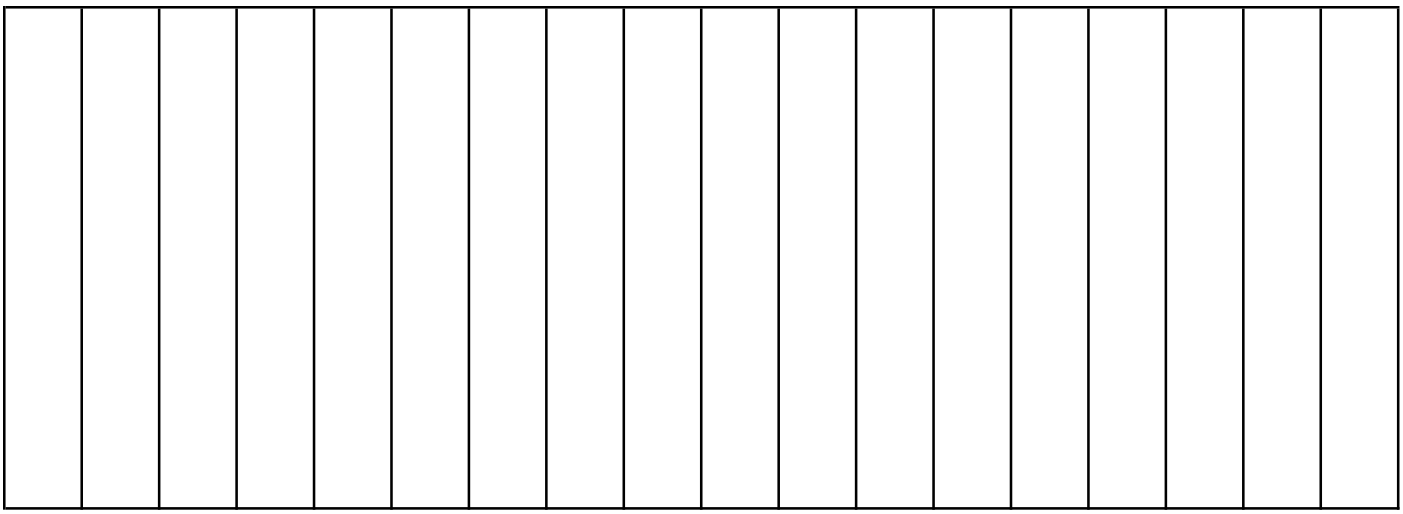
0	0	0	0	0	0	0	100	625		0.9	0.5	1.5	0	0	0.3	0	0
0.3	0	0	0	0	0	0	100	301		1.4	0.7	1.4	0	0	0	0	0
0	0	0	0	0	0.3	0	100	306		2.5	0	1.8	0.9	0	0	0	0.6
0	0	0	0	0	0.7	0	100	306		2	0.6	1.9	0	0	0	0	0
0	0	0	0	0	0	0	100	336		1.3	0.6	2.1	0.6	0	0	0	0
0	0	0	0	0	1.6	0	100	447		1.2	0.4	1.8	0.4	0	0	0	0
0.9	0	0	0	0	0.6	0	100	346		0.8	0	2.5	1	0	0.6	0	0
0.3	0	0.1	0	0	0	0	100	882		1.1	0	1	0.5	0	0	0	0
0	0	0	0	0	0	0	100	438		1.6	0	2	0	0	0	0	0
1	0	0	0	0	0	0	100	301		1.7	0	1.8	0	0	0	0	0
1.6	0	0	0	0	0	0	100	501		1.2	0	1	0.4	0	0	0	0
3.8	0	0	0.2	0.4	0	0	100	502		1.8	0	1.3	0.6	0	0	0	0
6.3	0	0	0	0	0	0	100	302		3	0.6	0	0.6	0	0	0	0
8.6	0	0	0	0	0.1	0	100	1283		1.2	0	0.5	0.3	0	0.3	0	0
17	0	0	0	0	0	0	100	307		2.4	0	1.3	0	0	0.9	0	0
								13767									

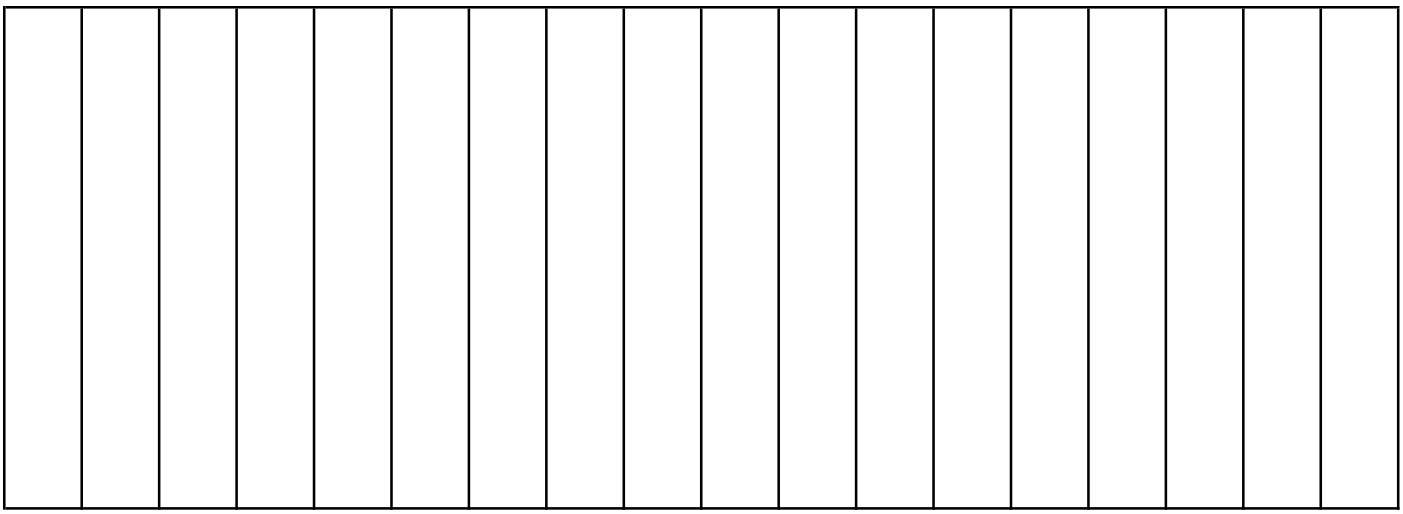
Cytheropteron arcuatum Brady, Cro	*Cytheropteron higashikawai* Ishizak	*Cytheropteron inflatum Brady*, Cros	*Cytheropteron parahamatum* Yasuh	*Cytheropteron scoresbyi* Whatley a	*Cytheropteron sedovi* Schneider 19	*Cytheropteron suzdalskyi* Lev 1972	*Cytheropteron* spp.	Cytheropteron TOTAL	*Eucythere* sp.	*Eucytherura delineata* Whatley and	*Heterocyprideis fascis* (Brady and N	*Heterocyprideis sorbyana* (Jones 18	*Krithe hunti* Yasuhara, Stepanova, C	*Krithe minima* Coles, Whatley, & Mo	*Microcythere medistriata* (Joy and C	*Paracytherois* spp.	*Pedicythere* spp.
0	0.8	0	0.7	1.9	0.4	0	0.2	2.2	0	0	0	0	0.8	0	0.6	0.6	0.4
0.4	0.5	0	0.9	2.6	0	0	0	2.8	0	0	0	0	1.2	0	0.7	1.6	0
0	1	0	1.3	3.1	0	0	0	3.4	0	0	0	0	1.2	0	0.3	2	0.8
0	1.4	0	1.9	3	0	0	0	3.6	0	0	0	0	0.9	0	0.8	2.4	0.6
0	1.2	0	2	3.5	0	0	0	3.8	0.3	0	0	0	1.3	0	0	1.8	0.3
0	0.8	0	2	2.8	0	0	0	3.3	0	0	0	0	1.3	0	0.3	2	0.7
0	1.4	0	2.8	3.6	0.6	0	0	4.5	0	0	0	0	3	0	0	2.8	1.1
0	1.3	0	2.9	3.4	0.5	0	0	4.3	0	0	0	0	2.6	0.9	0.5	2.6	0.7
0	1.7	0	3.1	3.3	0	0	0	4.5	0	0	0	0	2.9	1.6	0	1.6	0
0	1.8	0	4	3.8	0	0	0	5.2	0	0	0	0	3.2	0	0	1.8	0.7
0	1.8	0	4.8	3.1	0	0	0	5.4	0	0	0	0	2.6	0	0.6	2.7	0.9
0	1.9	0	3.7	3.4	0.7	0	0	4.7	0	0	0	0	1	0	1.3	1.3	1.4
0	1.7	0	3	3.1	0.9	0	0	4.2	0	0	0	0	0	0	1.3	1.7	1.3
0	2.1	0	3.5	3.4	1.9	0	0	5	0	0	0	0	0.6	0	2.4	0.9	1.6
0	1.1	0	2.4	3.2	1.7	0	0	4.2	0	0	0	0	0.6	0	1.3	2	1.8
0	1.6	0	1.7	2.6	2.1	0	0	3.8	0	0	0	0	0.7	0	1.6	1.4	1.5
0	0.9	0	2	2.8	3.8	0	0	4.8	0	0	0	0	1.1	0	2.2	1.8	0.9

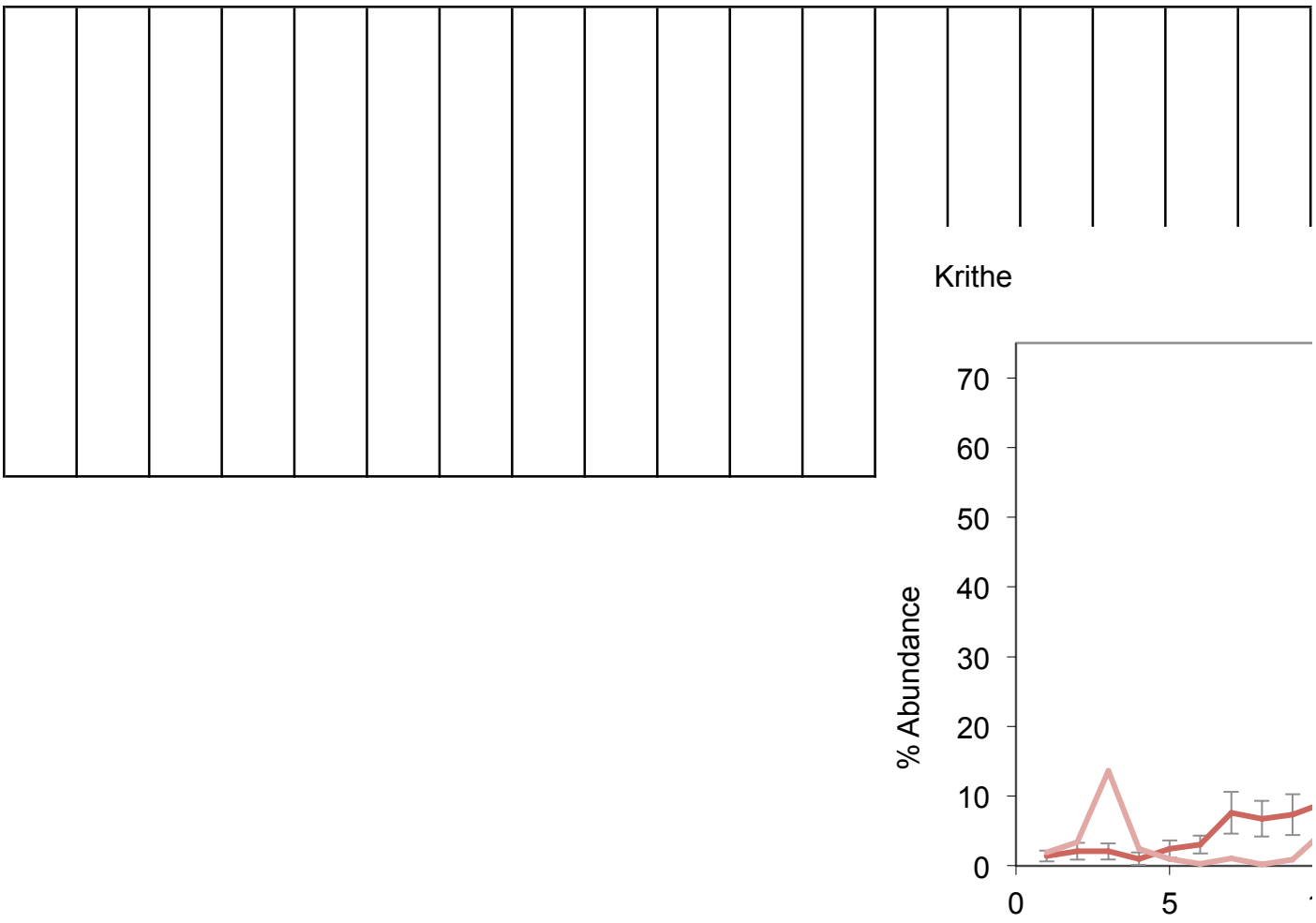
0	0.9	0	1	1.9	2.9	0	0.3	3.4	0	0	0	0	0.4	0	1.2	0.7	0
0	0.9	0	1.1	3.3	4.2	0	0.7	5.1	0	0	0	0	0.7	0	2.5	1.1	0.7
0	1.3	0	0	2.7	3.6	0	0	4.4	0	0	0	0	0.6	0	1.8	0	1.4
0	1.7	0	1.7	4.2	3.7	0	0	5.3	0	0	0	0	0.6	0	2.6	0.9	1.7
0	0.8	0	1.4	3.2	3.3	0	0	4.5	0	0	0	0	0.8	0	2.4	1.6	1.2
0	0	0	0.6	2.9	3.1	0	0	4	0	0	0	0	0.6	0	2.4	0.4	1.5
0	0.8	0	0	2.9	3.3	0	0	4.2	0	0	0	0	0.8	0	2	0	2.1
0	0.4	0.2	0.4	1.9	1.9	0	0.2	2.6	0	0	0	0	0.4	0	1.4	0.5	0.8
0	0	0	0.6	3.1	2.9	0	0.6	4	0	0	0.4	0	1	0	1.7	1.4	1.5
0	0	0	0	3.3	4.1	0	0.7	4.9	0	0	0	0	1.4	0	2.4	0.7	0.9
0	0.6	0	0	2.3	2.7	0	0	3.4	0.4	0	0	0	1.4	0	2	0.4	1.1
0	0	0	0	1.9	2.7	0	0	3.2	0	0	0	0	1.8	0	1.9	0	0.6
0	0	0	0.9	3.3	4.4	0	0	5.1	0.6	0	0	0	2.8	0	3.1	0	0.6
0	0	0	0	0.8	1.6	0.2	0	1.7	0	0	0	0	1.4	0	1.4	0.5	0.4
0	0	0	0	1.8	3.8	0	0	4.1	0.6	0	0	0	3	0	2.7	1.3	0.6

Polycope spp.	*Propontocypris* sp.	*Pseudocythere caudata* Sars 1866	*Rabilimis mirabilis* (Brady 1868)	*Sarsicytheridea bradii* (Norman 186	*Sclerochilus* spp.	*Semicytherura complanata* (Brady,	*Semicytherura* spp.	Other									
3.3	0.8	0.8	1.7	0	0	0	0	0.6									
4.3	0.6	0.6	2.3	0	0	0	0	0.4									
3.7	1.1	1	2.3	0	0	0	0	0.9									
3.8	0.6	0.9	3.2	0	0	0	0	0.6									
2.8	1	1.1	3.1	0	0	0	0	0.8									
2.9	0.3	0.7	3.2	0.3	0	0	0	0.5									
3.4	0	1.3	5.4	0	0	0	0	0									
3	0	1.1	4.6	0	0	0	0	0									
3.2	0	1.3	5.6	0	0	0	0	1.4									
3.8	0.7	1.3	5.3	0	0	0	0	0.7									
4.5	1.4	1.4	4.1	0	0	0	0	1.3									
4.9	1	1.4	1.7	0	0	0	0	0.7									
4.6	0.8	1.9	1.3	0	0	0	0	0									
5.6	1.1	3.3	0	0	0	0	0	0									
5.6	0.9	3.7	0	0.6	0	0	0	0									
4.9	0.7	3.5	0	0	0	0	0	0									
5.6	0.7	2.3	0.7	0	0	0	0	0									

3.9	0	2.2	0	0	0	0	0	0
5.6	0.7	1.1	0.7	0	0	0	0	0
5.3	0	1.4	0	0	0	0	0	0.6
5.6	0	1.9	0	0	0	0	0	0.9
5.3	0	1.8	0	0	0	0	0	0
4.6	0	0	0	0	0	0	0	1.2
5.3	0	3.2	1	0	0	0	0	0.8
3.3	0.2	2.2	0.4	0	0.2	0	0	0
4.7	0	3	0	0	0	0	0	0
5.6	0.7	2.1	1.1	0	0	0	0	0
4.2	0.8	0.8	1.1	0	0	0	0	0
4.3	0.6	1.2	1.7	0	0	0.4	0.6	0
5.5	0.6	1.6	2.7	0	0	0	0	0
2.7	0.3	0.6	1.5	0	0	0	0	0.2
5.5	0.6	0.9	4.2	0	0	0	0	0







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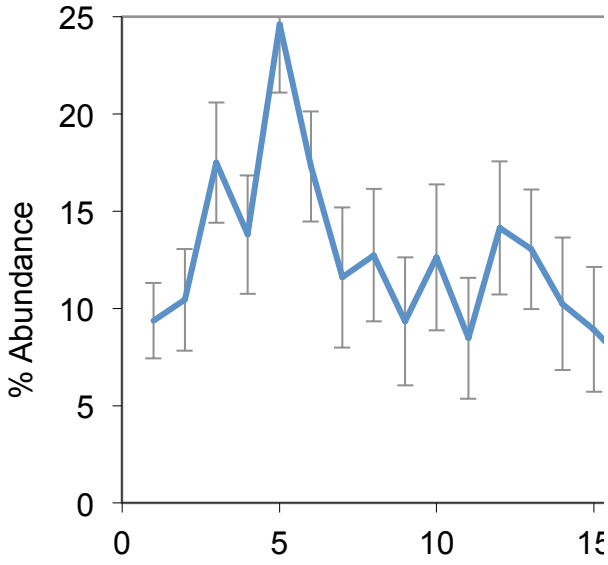

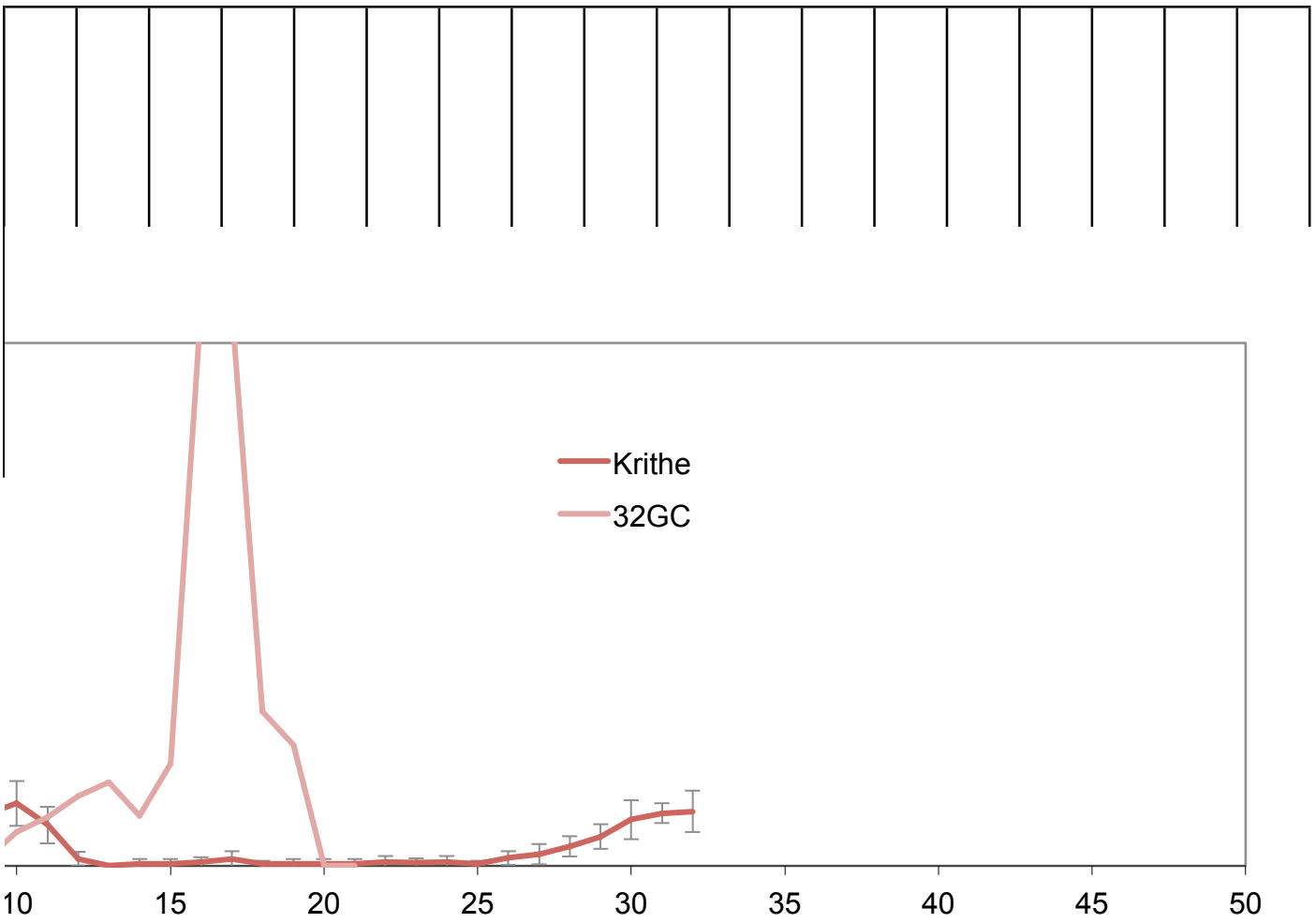
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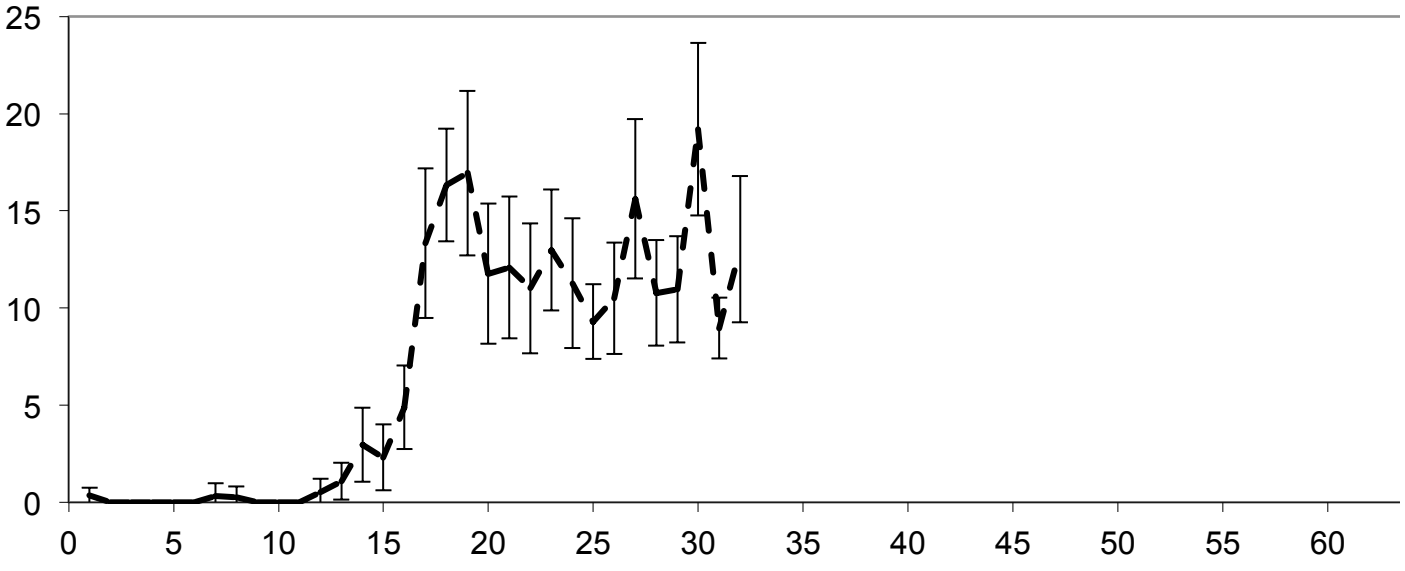
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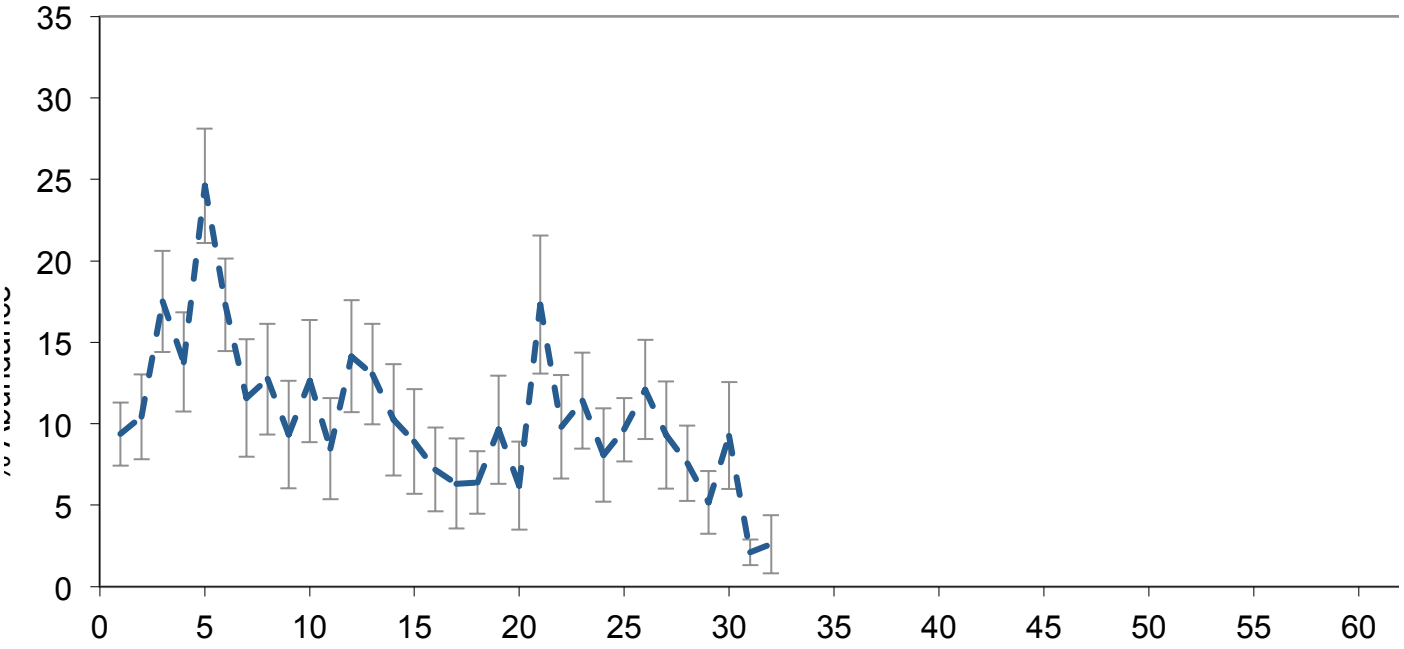
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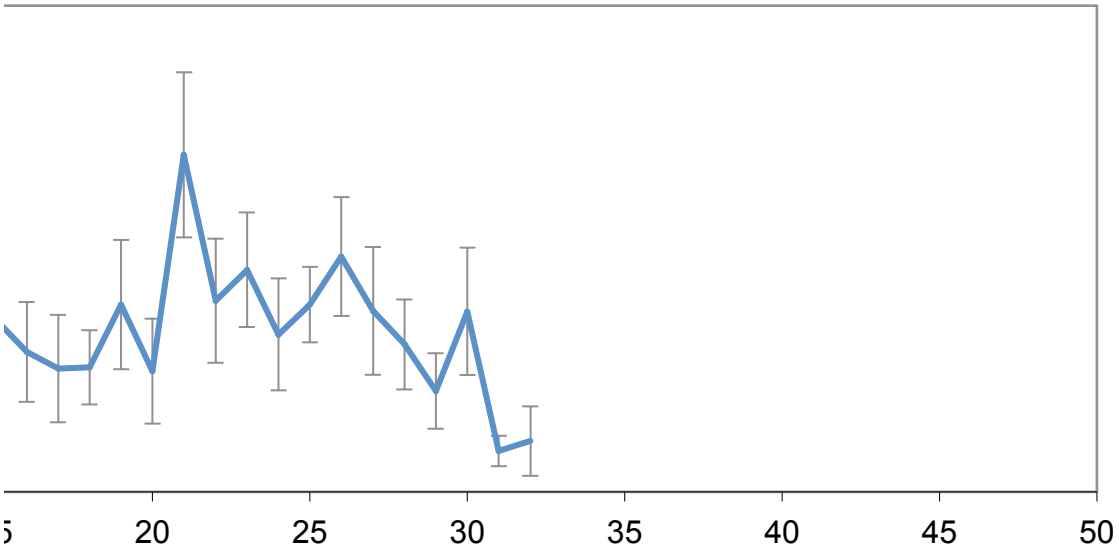
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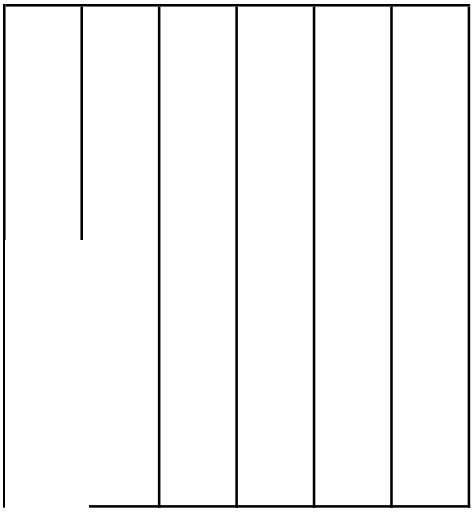


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