

Supplementary Material for Dao et al. Development of the early Cambrian oryctocephalid trilobite *Oryctocarella duyunensis* from western Hunan, China

Dataset 1: n=968 (Specimens for which Body Length data was available)

Dataset 2: n=643 (Specimens for which both Body Length and Number of Pygidial Segments data was available)

Summary Statistics for Dataset 1

Variable: Body length (mm)

Degree	N	Mean	Standard deviation	Coefficient of variation	Min	Max	Range
0	5	0.856	0.16288	19.0281%	0.65	1.02	0.37
1	7	1.00143	0.138375	13.8178%	0.73	1.19	0.46
2	47	1.36574	0.211174	15.4622%	1.02	1.92	0.9
3	67	1.82149	0.176877	9.71058%	1.43	2.13	0.7
4	86	2.10826	0.239648	11.3671%	1.38	3.19	1.81
5	93	2.61688	0.387107	14.7927%	1.71	3.82	2.11
6	118	3.15559	0.41362	13.1075%	2.13	4.42	2.29
7	110	3.81027	0.482785	12.6706%	2.89	5.05	2.16
8	179	4.8776	0.717699	14.7142%	3.31	7.81	4.5
9	222	6.51473	1.12406	17.2541%	4.55	10.05	5.5
10	31	7.24	1.2211	16.866%	5.36	10.2	4.84
11	3	8.3	0.255147	3.07406%	8.04	8.55	0.51
Total	968	4.11404	1.96256	47.704%	0.65	10.2	9.55

Summary Statistics of Dataset 2

Variable: Body length (mm)

Morph	N	Mean	Standard deviation	Coefficient of variation	Min	Max	Range
0-2	1	0.65			0.65	0.65	0.0
0-5	2	0.965	0.0777817	8.06028%	0.91	1.02	0.11
1-5	3	1.06667	0.107858	10.1117%	0.99	1.19	0.2
1-6	2	1.015	0.0494975	4.8766%	0.98	1.05	0.07
2-5	8	1.23875	0.12495	10.0868%	1.05	1.43	0.38
2-6	15	1.40933	0.194439	13.7965%	1.12	1.81	0.69
2-7	4	1.605	0.165227	10.2945%	1.36	1.72	0.36
3-5	10	1.637	0.152902	9.34035%	1.43	1.87	0.44
3-6	20	1.879	0.107307	5.71084%	1.72	2.13	0.41
3-7	8	1.98875	0.0721976	3.6303%	1.89	2.08	0.19
4-5	18	2.01111	0.220878	10.9829%	1.38	2.37	0.99
4-6	25	2.076	0.164798	7.93824%	1.81	2.42	0.61
4-7	11	2.11909	0.13457	6.35037%	1.94	2.37	0.43
5-5	18	2.36611	0.383132	16.1925%	1.71	2.99	1.28
5-6	33	2.64788	0.38159	14.4112%	2.12	3.71	1.59
5-7	10	2.715	0.305551	11.2542%	2.11	3.08	0.97
6-5	28	3.03143	0.319858	10.5514%	2.43	3.89	1.46
6-6	41	3.23585	0.396491	12.253%	2.13	4.42	2.29
6-7	5	3.238	0.365951	11.3018%	2.93	3.73	0.8
7-5	43	3.81116	0.519552	13.6324%	2.9	5.04	2.14
7-6	32	3.98125	0.377178	9.47385%	3.05	4.94	1.89
8-4	30	4.632	0.856401	18.4888%	3.31	6.92	3.61
8-5	84	5.00333	0.653289	13.0571%	3.84	7.81	3.97
9-3	13	5.82385	1.02847	17.6596%	4.57	7.98	3.41
9-4	141	6.5144	1.09801	16.8552%	4.55	10.05	5.5
9-5	11	7.25273	1.457	20.089%	5.02	9.31	4.29
10-3	19	7.28842	1.08247	14.852%	5.36	9.62	4.26
10-4	5	7.148	0.927777	12.9795%	5.88	7.99	2.11
11-3	3	8.3	0.255147	3.07406%	8.04	8.55	0.51
Total	643	4.26294	1.99383	46.7712%	0.65	10.05	9.4