

APPENDIX

Descriptive statistics of the measurements and the wear-stage independent residuals based on these measurements against the four wear stages; rounded where appropriate. For all taxa residuals were only calculated against the four determined wear stages. Abbreviations in all tables: st.-dev. – standard deviation, L – length, B width, mesF – number of "fossettes" in anterior part of tooth, distF – "fossettes" in distal part of tooth, res - residual; lower case letters indicate mandibular teeth, upper case letter maxillar teeth.

Descriptive statistics *Capacikala gradatus*.

variable	N	range	min	max	sum	mean	standard error	st.- dev	variance
L m1/2	67	1.80	2.20	4.00	179.17	2.674	.0453	.3711	.138
B m1/2	62	2.00	2.00	4.00	163.62	2.639	.0630	.4961	.246
mesF m1/2	64	4	0	4	109	1.70	.108	.867	.752
distF m1/2	64	1	1	2	66	1.03	.022	.175	.031
L p4	17	2.33	2.60	4.93	57.80	3.400	.1598	.6588	.434
B p4	16	2.40	2.00	4.40	47.28	2.955	.1567	.6268	.393
mesF p4	12	5	1	6	20	1.67	.414	1.435	2.061
distF p4	12	5	1	6	18	1.50	.417	1.446	2.091
L m3	23	1.61	1.60	3.21	52.23	2.271	.0860	.4125	.170
B m3	21	1.64	1.50	3.14	45.04	2.145	.0945	.4329	.187
mesF m3	21	1	1	2	30	1.43	.111	.507	.257
distF m3	21	0	1	1	21	1.00	.000	.000	.000
L M1/2	18	1.77	1.80	3.57	51.14	2.841	.1059	.4491	.202
B M1/2	15	2.70	2.20	4.90	57.77	3.851	.1788	.6924	.479
mesF M1/2	15	1	0	1	14	.93	.067	.258	.067
distF M1/2	15	1	0	1	3	.20	.107	.414	.171
L P4	8	2.10	2.40	4.50	25.56	3.195	.2922	.8263	.683
B P4	8	1.90	3.00	4.90	33.26	4.158	.2310	.6534	.427
mesF P4	7	1	0	1	5	.71	.184	.488	.238
distF P4	7	1	0	1	1	.14	.143	.378	.143
L M3	7	2.00	1.50	3.50	17.07	2.439	.2198	.5815	.338
B M3	6	1.40	1.60	3.00	14.75	2.458	.2083	.5103	.260
mesF M3	6	3	0	3	9	1.50	.500	1.225	1.500
distF M3	6	3	0	3	6	1.00	.632	1.549	2.400
Res_Lmi	65	1.4519	-1.6437	-.191986	-66.0254	-1.0161	.06122	.49353	.244
Res_Bm1/2	60	1.8508	-1.6061	.24472	-47.0417	-.7840	.06491	.50279	.253
Res_mesFm1/2	62	2.0007	-2.0776	-.07692	-56.7937	-.9160	.05488	.43212	.187
Res_distFm1/2	62	1.0000	-1.4647	-.46471	-70.3118	-1.1341	.05941	.46776	.219
Res_Lp4	12	2.0000	-3.1438	-1.14378	-23.8589	-1.9882	.15763	.54604	.298
Res_Bp4	11	1.2570	-2.2202	-.96324	-19.1173	-1.7379	.12771	.42358	.179
Res_mesFp4	10	1.0000	-2.3244	-1.32436	-16.2532	-1.6253	.15116	.47801	.228
Res_distFp4	10	2.8132	-2.4005	.41275	-13.6286	-1.3629	.24922	.78812	.621
Res_Lm3	23	2.3543	-2.4677	-.11344	-28.0040	-1.2176	.15690	.75246	.566
Res_Bm3	21	2.3740	-2.0077	.36627	-17.9100	-.8529	.17171	.78688	.619

Res_mesFm3	21	1.6947	-1.5420	.15267	-14.1652	-.6745	.13290	.60901	.371
Res_distFm3	21	2.0000	-2.2466	-.24658	-23.3962	-1.1141	.15617	.71564	.512
Res_LM1/2	18	3.2076	-1.4291	1.77844	2.6391	.1466	.19542	.82912	.687
Res_BM1/2	15	4.3964	-2.3474	2.04896	-5.4245	-.3616	.26450	1.02441	1.049
Res_mesFM1/2	15	1.0000	-.4239	.57615	3.4862	.2324	.12444	.48196	.232
Res_distFM1/2	15	1.2394	-.5062	.73320	3.1252	.2083	.12856	.49792	.248
Res_LP4	8	1.6841	-.5618	1.12235	2.8783	.3598	.23125	.65408	.428
Res_BP4	8	1.6548	-.9472	.70756	-.75312	-.0941399	.18188	.51444	.265
Res_mesFP4	7	1.1555	-.5756	.57983	2.7479	.3926	.16284	.43084	.186
Res_distFP4	7	1.3846	-.7275	.65714	1.2923	.1846	.16138	.42697	.182
Res_LM3	7	3.6973	-2.0662	1.63163	-4.3164	-.6166	.52152	1.37981	1.904
Res_BM3	6	3.2353	-1.6536	1.58177	-1.2062	-.2010	.52372	1.28285	1.646
Res_mesFM3	6	2.7907	-2.0103	.78036	-1.6899	-.2817	.54824	1.34291	1.803
Res_distFM3	6	2.7196	-2.1244	.59526	-1.8677	-.3113	.57335	1.40442	1.972
Gültige Werte (Listenweise)	0								

Descriptive statistics *Capacikala parvus*

variable	N	range	min	max	sum	mean	standard error	st.- dev	variance
L M1/2	4	.80	2.28	3.08	10.42	2.6050	.17071	.34142	.117
B M1/2	4	.19	2.82	3.01	11.69	2.9225	.04608	.09215	.008
L P4	2	.09	2.98	3.07	6.05	3.0250	.04500	.06364	.004
B P4	2	.14	3.34	3.48	6.82	3.4100	.07000	.09899	.010
L M3	1	.00	1.81	1.81	1.81	1.8100	.	.	.
B M3	1	.00	2.17	2.17	2.17	2.1700	.	.	.
mesF M3	1	0	1	1	1	1.00	.	.	.
Res_LM1/2	4	.99777	-.81799	.17978	-.90227	-.22557	.21291	.42582	.181
Res_BM1/2	4	.23901	.03004	.26905	.56044	.14011	.05796	.11592	.013
Res_LP4	2	.07218	-.41497	-.34279	-.75776	-.37888	.03609	.05104	.003
Res_BP4	2	.08185	-.57306	-.49121	-1.06427	-.53214	.04092	.05788	.003
Res_LM3	1	.00000	.07779	.07779	.07779	.07779	.	.	.
Res_BM3	1	.00000	-.15943	-.15943	-.15943	-.15943	.	.	.
Res_mesFM3	1	.00000	-.48320	-.48320	-.48320	-.48320	.	.	.

Descriptive statistics of *Capatanka cankpeopi*

variable	N	range	min	max	sum	mean	stan- dard error	st.- dev	variance
L m1/2	38	1.50	3.00	4.50	130.07	3.4229	.0662	.40798	.166
B m1/2	37	1.73	3.00	4.73	146.69	3.9646	.0622	.37759	.143
mesF m1/2	29	5	0	5	25	.86	.184	.990	.980
distF m1/2	29	4	0	4	29	1.00	.122	.655	.429
L p4	17	1.97	3.75	5.72	80.93	4.7606	.1323	.54562	.298
B p4	16	1.35	3.45	4.80	65.34	4.0838	.0938	.37504	.141
mesF p4	14	2	0	2	16	1.14	.177	.663	.440
distF p4	15	1	1	2	16	1.07	.067	.258	.067
L m3	14	.55	2.80	3.35	42.33	3.0236	.0430	.16089	.026
B m3	13	1.12	2.38	3.50	40.65	3.1269	.0861	.31033	.096
mesF m3	11	1	0	1	9	.82	.122	.405	.164
distF m3	11	1	0	1	10	.91	.091	.302	.091
L M1/2	12	1.08	2.72	3.80	38.60	3.2167	.1140	.39500	.156
B M1/2	11	1.55	2.85	4.40	40.34	3.6673	.1608	.53322	.284
mesF M1/2	12	2	0	2	16	1.33	.188	.651	.424
distF M1/2	11	3	0	3	19	1.73	.304	1.009	1.018
L P4	7	.62	3.88	4.50	29.59	4.2271	.0750	.19839	.039
B P4	7	2.81	3.29	6.10	32.76	4.6800	.3885	1.02778	1.056
mesF P4	6	2	1	3	11	1.83	.307	.753	.567
distF P4	6	1	1	2	9	1.50	.224	.548	.300
L M3	6	.70	2.50	3.20	16.25	2.7083	.1218	.29842	.089
B M3	6	.90	2.90	3.80	19.78	3.2967	.1398	.34238	.117
mesF M3	6	2	1	3	14	2.33	.333	.816	.667
distF M3	6	2	1	3	12	2.00	.365	.894	.800
Res_Lm1/2	36	1.2988	-.7894	.50938	1.00860	.02802	.08141	.48847	.239
Res_Bm1/2	35	2.1067	-1.5017	.60500	-12.0572	-.34449	.09064	.53621	.288
Res_mesFm1/2	29	3.0007	-.5774	2.42326	1.2537	.04323	.12071	.65005	.423
Res_distFm1/2	29	1.7500	-.4647	1.28529	6.5235	.22495	.09256	.49846	.248
Res_Lp4	13	1.2669	-2.3002	-1.03334	-22.0984	-1.69988	.09542	.34405	.118
Res_Bp4	12	1.2569	-2.4191	-1.16218	-20.5239	-1.71032	.12724	.44077	.194
Res_mesFp4	10	1.0048	-1.3292	-.32436	-6.2916	-.62916	.15241	.48195	.232
Res_distFp4	13	7.0000	-1.4005	5.59955	3.3568	.25822	.67310	2.42688	5.890
Res_Lm3	14	1.0285	-.3965	.63196	2.6277	.18770	.13584	.50828	.258
Res_Bm3	13	1.1054	-.6083	.49709	-.09216	-.00709	.11738	.42323	.179
Res_mesFm3	11	1.6947	-1.2366	.45802	-2.3512	-.21374	.20846	.69137	.478
Res_distFm3	11	1.0000	-.2466	.75342	3.3699	.30635	.15503	.51417	.264
Res_LM1/2	12	7.2143	-1.9302	5.28402	-1.8613	-.15511	.53626	1.85767	3.451
Res_BM1/2	11	7.4214	-1.2593	6.16207	1.2356	.11233	.62339	2.06755	4.275
Res_mesFM1/2	12	8.1562	-1.4239	6.73231	4.5385	.37821	.63545	2.20125	4.846
Res_distFM1/2	11	2.4788	-1.2668	1.21202	.9805	.08914	.27906	.92552	.857

STEFEN: Beaver Morphometrics

Res_LP4	7	1.2165	-1.4575	-.24099	-6.4007	-.91438	.19976	.52852	.279
Res_BP4	7	1.4735	-1.7598	-.28630	-5.9222	-.84603	.22128	.58545	.343
Res_mesFP4	6	1.1555	-.4202	.73529	.2563	.04272	.22401	.54872	.301
Res_distFP4	6	1.0000	-.3429	.65714	1.0967	.18278	.16186	.39648	.157
Res_LM3	6	1.8218	-1.9768	-.15495	-7.1629	-1.19382	.24099	.59029	.348
Res_BM3	6	1.8192	-1.9279	-.10868	-7.7469	-1.29115	.26123	.63985	.409
Res_mesFM3	6	1.5271	-1.0103	.51680	-3.0078	-.50129	.25274	.61908	.383
Res_distFM3	6	1.2399	-1.1244	.11550	-3.3070	-.55117	.19007	.46556	.217

Descriptive statistics *Capatanka minor*

variable	N	range	min	max	sum	mean	standard error	st.- dev	variance
L M1/2	7	.97	1.80	2.77	17.20	2.4571	.14764	.39063	.153
B M1/2	5	2.00	2.20	4.20	16.74	3.3480	.35619	.79647	.634
mesF M1/2	7	1	0	1	6	.86	.143	.378	.143
distF M1/2	7	0	0	0	0	.00	.000	.000	.000
L P4	2	.10	3.31	3.41	6.72	3.3600	.05000	.07071	.005
B P4	2	.34	3.45	3.79	7.24	3.6200	.17000	.24042	.058
distF P4	2	0	2	2	4	2.00	.000	.000	.000
L M3	2	.86	1.50	2.36	3.86	1.9300	.43000	.60811	.370
B M3	1	.00	1.60	1.60	1.60	1.6000	.	.	.
mesF M3	2	1	0	1	1	.50	.500	.707	.500
distF M3	2	1	0	1	1	.50	.500	.707	.500
Res_LM1/2	7	1.20979	.56864	1.77844	6.71189	.95884	.18414	.48720	.237
Res_BM1/2	5	2.51586	-.46689	2.04896	3.02430	.60486	.44807	1.00191	1.004
Res_mesFM1/2	7	.15615	.42000	.57615	3.87692	.55385	.02231	.05902	.003
Res_distFM1/2	7	.00000	.49380	.49380	3.45657	.49380	.00000	.00000	.000
Res_LP4	2	.08020	-.68764	-.60744	-1.29508	-.64754	.04010	.05671	.003
Res_BP4	2	.19877	-.75429	-.55552	-1.30981	-.65491	.09939	.14055	.020
Res_distFP4	2	.00000	.04176	.04176	.08352	.04176	.00000	.00000	.000
Res_LM3	2	2.53646	-.90483	1.63163	.72680	.36340	1.26823	1.79355	3.217
Res_BM3	1	.00000	1.58177	1.58177	1.58177	1.58177	.	.	.
Res_mesFM3	2	1.26357	-.48320	.78036	.29716	.14858	.63178	.89348	.798
Res_distFM3	2	1.23988	-.64462	.59526	-.04936	-.02468	.61994	.87673	.769

Descriptive statistics *Capatanka magnus*

variable	N	range	min	max	sum	mean	standard error	st.- dev	variance
L m1/2	2	.00	3.90	3.90	7.80	3.9000	.00000	.00000	.000
B m1/2	2	1.00	3.00	4.00	7.00	3.5000	.50000	.70711	.500
mesF m1/2	1	0	1	1	1	1.00	.	.	.
dist F m1/2	1	0	1	1	1	1.00	.	.	.
L p4	2	.60	4.20	4.80	9.00	4.5000	.30000	.42426	.180
B p4	2	1.10	4.00	5.10	9.10	4.5500	.55000	.77782	.605
mesF p4	1	0	1	1	1	1.00	.	.	.
distF p4	1	0	1	1	1	1.00	.	.	.
L M1/2	4	.50	3.50	4.00	15.00	3.7500	.14434	.28868	.083
B M1/2	4	.10	4.50	4.60	18.20	4.5500	.02887	.05774	.003
L P4	2	.00	5.00	5.00	10.00	5.0000	.00000	.00000	.000
B P4	2	.00	5.30	5.30	10.60	5.3000	.00000	.00000	.000
L M3	2	.00	3.60	3.60	7.20	3.6000	.00000	.00000	.000
B M3	2	.00	4.50	4.50	9.00	4.5000	.00000	.00000	.000
Res_Lm1/2	2	.00000	-.8267	-.82672	-1.6535	-.82672	.00000	.00000	.000
Res_Bm1/2	2	.63972	-1.0347	-.3950	-1.4297	-.71486	.31986	.45235	.205
Res_mesF1/2	1	.00000	-.5774	-.5774	-.5774	-.57743	.	.	.
Res_distF1/2	1	.00000	-.4647	-.4647	-.4647	-.46471	.	.	.
Res_Lp4	2	6.64418	-1.9740	4.6701	2.6961	1.34805	3.32209	4.69814	22.073
Res_Bp4	2	6.05797	-2.3335	3.7245	1.3912	.69553	3.02899	4.28363	18.350
Res_mesFp4	1	.00000	-1.3292	-1.3292	-1.3292	-1.32916	.	.	.
Res_distFp4	1	.00000	-1.4005	-1.4005	-1.4005	-1.40045	.	.	.

Descriptive statistics *Palaeocaster fossor*

variable	N	range	min	max	sum	mean	standard error	st.- dev	variance
L m1/2	2	.30	3.40	3.70	7.10	3.5500	.15000	.21213	.045
B m1/2	2	.00	4.00	4.00	8.00	4.0000	.00000	.00000	.000
mesF m1/2	2	0	1	1	2	1.00	.000	.000	.000
distF m1/2	2	0	1	1	2	1.00	.000	.000	.000
L p4	2	.50	4.00	4.50	8.50	4.2500	.25000	.35355	.125
B p4	2	.50	3.70	4.20	7.90	3.9500	.25000	.35355	.125
mesF p4	1	0	1	1	1	1.00	.	.	.
distF p4	1	0	1	1	1	1.00	.	.	.
L M1/2	6	.70	2.80	3.50	19.80	3.3000	.11832	.28983	.084
B M1/2	6	.70	3.80	4.50	24.40	4.0667	.10220	.25033	.063
mesF M1/2	4	1	1	2	5	1.25	.250	.500	.250
distF M1/2	4	0	1	1	4	1.00	.000	.000	.000
L P4	3	.75	3.35	4.10	11.45	3.8167	.23511	.40723	.166
B P4	3	.20	3.90	4.10	11.90	3.9667	.06667	.11547	.013
mesF P4	2	0	1	1	2	1.00	.000	.000	.000
distF P4	2	0	1	1	2	1.00	.000	.000	.000
L M3	3	.40	2.60	3.00	8.60	2.8667	.13333	.23094	.053
B M3	3	.20	3.00	3.20	9.40	3.1333	.06667	.11547	.013
mesF M3	2	0	1	1	2	1.00	.000	.000	.000
distF M3	2	0	1	1	2	1.00	.000	.000	.000
Res_Lm1/2	2	.11203	-.75203	-.64000	-1.39203	-.69602	.05602	.07922	.006
Res_Bm1/2	2	.00000	-1.03472	-1.03472	-2.06943	-1.03472	.00000	.00000	.000
Res_mesFm1/2	2	.00000	-.57743	-.57743	-1.15487	-.57743	.00000	.00000	.000
Res_distFm1/2	2	.00000	-.46471	-.46471	-.92941	-.46471	.00000	.00000	.000
Res_Lp4	1	.00000	-1.85543	-1.85543	-1.85543	-1.85543	.	.	.
Res_Bp4	1	.00000	-2.07654	-2.07654	-2.07654	-2.07654	.	.	.
Res_mesFp4	1	.00000	-1.32916	-1.32916	-1.32916	-1.32916	.	.	.
Res_distFp4	1	.00000	-1.40045	-1.40045	-1.40045	-1.40045	.	.	.
Res_LM1/2	4	.12472	-1.34182	-1.21710	-5.24256	-1.31064	.03118	.06236	.004
Res_BM1/2	4	.62896	-1.84427	-1.21531	-5.74178	-1.43545	.14862	.29724	.088
Res_mesFM1/2	4	.15615	-.42385	-.26769	-1.53923	-.38481	.03904	.07808	.006
Res_distFM1/2	4	.00000	-.26680	-.26680	-1.06718	-.26679	.00000	.00000	.000
Res_LP4	3	7.60147	-1.24099	6.36048	3.95869	1.31957	2.52057	4.36575	19.060
Res_BP4	2	.00000	-.81860	-.81860	-1.63720	-.81860	.00000	.00000	.000
Res_mesFP4	2	.00000	-.42017	-.42017	-.84034	-.42017	.00000	.00000	.000
Res_distFP4	2	.00000	-.34286	-.34286	-.68571	-.34286	.00000	.00000	.000
Res_LM3	2	.00000	-2.04824	-2.04824	-4.09648	-2.04824	.00000	.00000	.000
Res_BM3	2	.26007	-1.49878	-1.23871	-2.73749	-1.36875	.13003	.18391	.034
Res_mesFM3	2	.00000	-.48320	-.48320	-.96641	-.48320	.00000	.00000	.000
Res_distFM3	2	.00000	-.64462	-.64462	-1.28924	-.64462	.00000	.00000	.000

Descriptive statistics *Palaeocastor nebrascensis*

variable	N	range	min	max	sum	mean	standard error	st.- dev	variance
L m1/2	22	1.86	2.04	3.90	74.98	3.4082	.08848	.41500	.172
B m1/2	22	2.08	2.60	4.68	80.81	3.6732	.11829	.55483	.308
mesF m1/2	22	3	0	3	27	1.23	.160	.752	.565
distF m1/2	22	1	0	1	21	.95	.045	.213	.045
L p4	8	1.51	3.74	5.25	34.74	4.3425	.18326	.51834	.269
B p4	8	1.97	2.81	4.78	29.50	3.6875	.22076	.62440	.390
mesF p4	8	2	1	3	10	1.25	.250	.707	.500
distF p4	8	0	1	1	8	1.00	.000	.000	.000
L m3	4	.90	2.62	3.52	12.47	3.1175	.18710	.37420	.140
B m3	4	.86	2.60	3.46	12.36	3.0900	.21455	.42911	.184
mesF m3	4	0	1	1	4	1.00	.000	.000	.000
distF m3	4	0	1	1	4	1.00	.000	.000	.000
L M1/2	21	1.45	2.28	3.73	64.32	3.0629	.08173	.37453	.140
B M1/2	15	1.35	2.82	4.17	52.63	3.5087	.11599	.44922	.202
mesF M1/2	21	3	0	3	24	1.14	.125	.573	.329
distF M1/2	20	4	0	4	19	.95	.276	1.234	1.524
L P4	13	1.33	3.07	4.40	48.57	3.7365	.11040	.39804	.158
B P4	11	1.74	3.04	4.78	44.85	4.0773	.18331	.60798	.370
mesF P4	12	3	1	4	18	1.50	.289	1.000	1.000
distF P4	12	3	0	3	13	1.08	.336	1.165	1.356
L M3	6	.25	2.30	2.55	14.35	2.3917	.03458	.08472	.007
B M3	3	.70	3.02	3.72	9.97	3.3233	.20739	.35921	.129
mesF M3	6	0	1	1	6	1.00	.000	.000	.000
distF M3	6	1	0	1	1	.17	.167	.408	.167
Res_Lm1/2	21	2.29502	-1.75577	.53926	-19.01508	-.90548	.21181	.97062	.942
Res_Bm1/2	21	2.36464	-2.00913	.35551	-23.02507	-1.0964	.17322	.79381	.630
Res_mesFm1/2	21	2.00000	-1.57743	.42257	-14.12509	-.67262	.16768	.76839	.590
Res_distFm1/2	21	2.00000	-1.46471	.53529	-14.75882	-.702801	.20592	.94365	.890
Res_Lp4	8	2.27873	-3.30614	-1.02741	-14.46836	-1.80855	.29789	.84257	.710
Res_Bp4	8	1.73452	-2.89670	-1.16218	-14.52667	-1.81583	.23364	.66083	.437
Res_mesFp4	8	2.00958	-2.32916	-.31957	-8.62366	-1.07796	.31380	.88757	.788
Res_distFp4	8	2.00000	-2.40045	-.40045	-9.20358	-1.15045	.31339	.88641	.786
Res_Lm3	4	2.05339	-2.41964	-.36626	-5.50151	-1.37538	.41934	.83867	.703
Res_Bm3	4	1.54689	-2.34485	-.79796	-6.41208	-1.60302	.32238	.64475	.416
Res_mesFm3	4	2.00000	-2.54198	-.54198	-6.16794	-1.54199	.40825	.81650	.667
Res_distFm3	4	2.00000	-2.24658	-.24658	-4.98630	-1.24658	.40825	.81650	.667
Res_LM1/2	21	2.80845	-1.62868	1.17978	-9.72884	-.46328	.19405	.88925	.791
Res_BM1/2	15	2.61015	-1.34110	1.26905	-1.95869	-.13058	.23326	.90340	.816
Res_mesFM1/2	21	1.00000	-.42385	.57615	-1.43231	-.06821	.10003	.45838	.210
Res_distFM1/2	20	1.23941	-.50620	.73320	1.42469	.07124	.10836	.48459	.235
Res_LP4	13	1.51326	-1.33723	.17603	-6.34282	-.48791	.14488	.52236	.273
Res_BP4	11	1.16369	-1.15768	.00601	-5.14461	-.46770	.11005	.36500	.133
Res_mesFP4	12	1.00000	-.42017	.57983	.89076	.07423	.13499	.46761	.219

Res_distFP4	12	.76923	-.34286	.42637	1.27033	.10586	.08513	.29490	.087
Res_LM3s	6	1.44665	-1.24428	.20237	-.76842	-.12807	.22462	.5502	.303
Res_BM3s	3	.91024	-1.17496	-.26472	-1.97747	-.65916	.26968	.46710	.218
Res_mesFM3	6	1.00000	-.48320	.51680	2.10078	.35013	.16667	.40825	.167
Res_distFM3	6	1.23988	-.64462	.59526	2.33169	.38862	.20665	.50618	.256

Descriptive statistics *Palaeocastor peninsulatus*

variable	N	range	min	max	sum	mean	standard error	st.- dev	variance
L m1/2	3	.40	3.30	3.70	10.40	3.4667	.12019	.20817	.043
B m1/2	3	.30	3.20	3.50	10.10	3.3667	.08819	.15275	.023
mesF m1/2	2	1	1	2	3	1.50	.500	.707	.500
distF m1/2	2	0	1	1	2	1.00	.000	.000	.000
L p4	1	.00	3.90	3.90	3.90	3.9000	.	.	.
B p4	1	.00	3.70	3.70	3.70	3.7000	.	.	.
L m3	1	.00	3.00	3.00	3.00	3.0000	.	.	.
Res_Lm1/2	3	.14938	-1.75203	-1.60265	-4.99469	-1.66490	.04488	.07774	.006
Res_Bm1/2	3	.19192	-1.71486	-1.52294	-4.88868	-1.62956	.05642	.09772	.010
Res_mesFm1/2	2	.50017	-1.57743	-1.07726	-2.65470	-1.32735	.25009	.35368	.125
Res_distFm1/2	2	.00000	-1.46471	-1.46471	-2.92941	-1.46471	.00000	.00000	.000
Res_Lp4	1	.00000	-2.79613	-2.79613	-2.79613	-2.79613	.	.	.
Res_Bp4	1	.00000	-3.07654	-3.07654	-3.07654	-3.07654	.	.	.
Res_Lm3	1	.00000	-.38583	-.38583	-.38583	-.38583	.	.	.

Descriptive statistics *Palaeocaster* sp.

variable	N	range	min	max	sum	mean	standard error	st.- dev	variance
L m1/2	49	1.70	2.30	4.00	152.90	3.1204	.04305	.30137	.091
B m1/2	49	1.70	2.30	4.00	160.80	3.2816	.04744	.33209	.110
mesF m1/2	42	5	0	5	47	1.12	.137	.889	.790
distF m1/2	44	1	0	1	42	.95	.032	.211	.044
L p4	21	1.43	3.00	4.43	75.33	3.5871	.09923	.45472	.207
B p4	21	1.60	2.40	4.00	66.46	3.1648	.09673	.44326	.196
mesF p4	18	3	1	4	23	1.28	.177	.752	.565
distF p4	18	0	1	1	18	1.00	.000	.000	.000
L m3	19	1.00	2.10	3.10	49.90	2.6263	.06747	.29409	.086
B m3	18	1.20	2.10	3.30	47.80	2.6556	.07286	.30912	.096
mesF m3	13	1	1	2	15	1.15	.104	.376	.141
distF m3	13	2	0	2	13	1.00	.113	.408	.167
L M1/2	14	1.40	2.00	3.40	39.90	2.8500	.08880	.33224	.110
B M1/2	13	1.30	2.70	4.00	44.70	3.4385	.10224	.36864	.136
mesF M1/2	8	3	0	3	11	1.38	.375	1.061	1.125
distF M1/2	8	3	0	3	11	1.38	.460	1.302	1.696
L P4	7	.70	3.10	3.80	23.20	3.3143	.09110	.24103	.058
B P4	7	1.40	2.90	4.30	23.50	3.3571	.19501	.51594	.266
mesF P4	3	1	1	2	5	1.67	.333	.577	.333
distF P4	3	0	1	1	3	1.00	.000	.000	.000
L M3	6	.70	2.00	2.70	13.80	2.3000	.11547	.28284	.080
B M3	6	.40	2.70	3.10	17.50	2.9167	.06009	.14720	.022
mesF M3	3	3	1	4	8	2.67	.882	1.528	2.333
distF M3	3	4	0	4	5	1.67	1.202	2.082	4.333
Res_Lm1/2	35	2.44814	-1.86407	.58407	-20.22563	-.57788	.14955	.88473	.783
Res_Bm1/2	34	2.44780	-1.90677	.54103	-19.37927	-.56998	.13221	.77093	.594
Res_mesFm1/2	30	2.00069	-1.57743	.42326	-15.32234	-.51075	.10095	.55293	.306
Res_distFm1/2	32	8.00000	-1.46471	6.53529	-7.37059	-.23033	.25670	1.45210	2.109
Res_Lp4	20	8.88139	-3.26239	5.61900	-5.96694	-.29835	.66115	2.95675	8.742
Res_Bp4	20	8.91436	-3.30579	5.60857	-6.50445	-.32522	.67308	3.01008	9.061
Res_mesFp4	17	9.00958	-3.32436	5.68522	.42831	.02520	.80891	3.33523	11.124
Res_distFp4	17	9.00000	-3.40045	5.59955	-.80761	-.04751	.80869	3.33431	11.118
Res_Lm3	13	7.97331	-1.42142	6.55189	.58380	.04491	.58132	2.095982	4.393
Res_Bm3	13	8.36881	-1.45023	6.91859	1.20082	.09237	.60496	2.181214	4.758
Res_mesFm3	10	8.00000	-1.54198	6.45802	10.27481	1.02748	.92406	2.92214	8.539
Res_distFm3	11	8.00000	-1.24658	6.75342	18.28767	1.66252	.99509	3.30034	10.892
Res_LM1/2	12	1.12249	-.59349	.52899	-4.24889	-.35407	.09147	.31685	.100
Res_BM1/2	12	2.00634	-1.21531	.79103	-4.40717	-.36726	.18859	.65330	.427
Res_mesFM1/2	6	1.00000	-.42385	.57615	-.69923	-.11654	.19540	.47863	.229
Res_distFM1/2	6	1.00000	-.50620	.49380	.15982	.02664	.16455	.40307	.162
Res_LP4	6	1.32079	-1.00040	.32038	-2.75692	-.45949	.17709	.43377	.188

STEFEN: Beaver Morphometrics

Res_BP4	6	.59077	-.64321	-.05245	-2.27467	-.37911	.09705	.23771	.057
Res_mesFP4	3	1.15546	-.42017	.73529	.05042	.01681	.36204	.62707	.393
Res_distFP4	3	1.00000	-.34286	.65714	-.02857	-.00952	.33333	.57735	.333
Res_LM3	5	1.25061	-1.51227	-.26166	-3.80951	-.76190	.24884	.55643	.310
Res_BM3	5	.52014	-1.36875	-.84861	-5.80345	-1.16069	.08819	.19721	.039
Res_mesFM3	2	.52713	-1.01034	-.48320	-1.49354	-.74677	.26357	.37274	.139
Res_distFM3	2	.23988	-.64462	-.40474	-1.04936	-.52468	.11994	.16962	.029

Descriptive statistics *Pseudopalaecastor barbouri*

variable	N	range	min	max	sum	mean	standard error	st.- dev	variance
L m1/2	2	.03	2.73	2.76	5.49	2.7450	.01500	.02121	.000
B m1/2	2	.09	3.28	3.37	6.65	3.3250	.04500	.06364	.004
L p4	2	.58	3.10	3.68	6.78	3.3900	.29000	.41012	.168
B p4	2	.16	2.90	3.06	5.96	2.9800	.08000	.11314	.013
L m3	1	.00	2.10	2.10	2.10	2.1000	.	.	.
B m3	1	.00	2.91	2.91	2.91	2.9100	.	.	.
L M1/2	5	.68	2.41	3.09	13.43	2.6860	.12917	.28884	.083
B M1/2	5	.50	2.50	3.00	13.46	2.6920	.08399	.18780	.035
L P4	3	.17	2.53	2.70	7.76	2.5867	.05667	.09815	.010
B P4	3	.72	2.40	3.12	8.50	2.8333	.22040	.38175	.146
L M3	3	.02	2.18	2.20	6.57	2.1900	.00577	.01000	.000
B M3	3	.35	2.05	2.40	6.65	2.2167	.10138	.17559	.031
Res_Lm1/2	2	.01120	-1.40099	-1.38979	-2.79078	-1.39539	.00560	.00792	.000
Res_Bm1/2	2	.05757	-1.63169	-1.57412	-3.20581	-1.60291	.02879	.04071	.002
Res_Lp4	1	.00000	-3.66566	-3.66566	-3.66566	-3.66566	.	.	.
Res_Bp4	1	.00000	-3.52845	-3.52845	-3.52845	-3.52845	.	.	.
Res_Lm3	1	.00000	-1.46591	-1.46591	-1.46591	-1.46591	.	.	.
Res_Bm3	1	.00000	-1.50818	-1.50818	-1.50818	-1.50818	.	.	.
Res_LM1/2	4	.84810	-1.83046	-.98236	-5.28891	-1.3223	.20791	.41583	.173
Res_BM1/2	4	.47801	-.95738	-.47937	-2.52127	-.63032	.11193	.22385	.050
Res_LP4	2	.00000	-1.98191	-1.98191	-3.96381	-1.98191	.00000	.00000	.000
Res_BP4	2	.08185	-2.36260	-2.28075	-4.64335	-2.32167	.04092	.05788	.003
Res_LM3	2	.01787	-1.60111	-1.58324	-3.18435	-1.59218	.00893	.01263	.000
Res_BM3	2	.26007	-1.45851	-1.19844	-2.65694	-1.32847	.13003	.18390	.034