

Appendix 2: Results of descriptive statistic

The Appendix 2 is an electronic part of the manuscript:

WAGNER, J. & ČERMÁK, S. 2012. Revision of the early Middle Pleistocene bears (Ursidae, Mammalia) of Central Europe, with special respect to possible co-occurrence of spelaeoid and arctoid lineages. *Bulletin of Geosciences* 87(3), 461–496.

Table 1. Metric characters and index for p4 inf.

p4 inf.		MAXL	MAXW	MAXW/MAXL
	n	52	53	50
<i>U. arctos</i> (Balkan)	mean $\pm$ S.D.	12.14 $\pm$ 0.997	6.86 $\pm$ 0.544	0.5678 $\pm$ 0.027
	min.–max.	10.3–14.3	5.9–8.6	0.5252–0.6324
<i>U. arctos</i> (Siberia)	n	17	21	17
	mean $\pm$ S.D.	12.04 $\pm$ 0.816	7.34 $\pm$ 0.475	0.6016 $\pm$ 0.034
	min.–max.	11.1–13.9	6.7–8.1	0.5349–0.66374
<i>U. arctos</i> (Tibet)	n	12	12	12
	mean $\pm$ S.D.	14.23 $\pm$ 0.877	8.24 $\pm$ 0.664	0.5787 $\pm$ 0.022
	min.–max.	13.2–15.4	7.2–9.0	0.5333–0.6119
<i>U. arctos</i> (Kamchatka)	n	20	22	20
	mean $\pm$ S.D.	14.45 $\pm$ 0.901	8.5 $\pm$ 0.735	0.5965 $\pm$ 0.030
	min.–max.	12.7–16.0	7.2–9.6	0.5417–0.6414
<i>U. arctos</i> (all specimens)	n	104	113	102
	mean $\pm$ S.D.	12.80 $\pm$ 1.398	7.44 $\pm$ 0.891	0.5816 $\pm$ 0.031
	min.–max.	10.3–16.0	5.9–9.6	0.5252–0.6637
	variance	1.9558	0.7940	0.0010
	skewness	0.3719	0.6243	0.3047
	kurtosis	–0.7744	–0.3674	–0.478
<i>U. deningeri</i> (C 718)	n	7	6	6
	mean $\pm$ S.D.	15.46 $\pm$ 1.023	8.67 $\pm$ 1.029	0.5651 $\pm$ 0.037
	min.–max.	13.8–16.4	7.1–10.2	0.5145–0.6220
<i>U. deningeri</i> (Koněprusy Caves)	n	9	8	8
	mean $\pm$ S.D.	14.56 $\pm$ 1.027	8.61 $\pm$ 0.692	0.5938 $\pm$ 0.028
	min.–max.	13.1–16.0	7.4–9.7	0.5649–0.6418
<i>U. deningeri</i> (Kozi Grzbiet)	n	8	9	8
	mean $\pm$ S.D.	14.38 $\pm$ 0.778	8.99 $\pm$ 0.599	0.6328 $\pm$ 0.050
	min.–max.	13.1–15.6	8.2–9.8	0.5359–0.700
<i>U. deningeri</i> (all specimens)	n	24	23	22
	mean $\pm$ S.D.	14.76 $\pm$ 1.020	8.77 $\pm$ 0.745	0.6002 $\pm$ 0.047
	min.–max.	13.1–16.4	7.1–10.2	0.5145–0.700
	variance	1.0399	0.5547	0.0022
	skewness	–0.01	–0.2579	0.2447
	kurtosis	–1.1195	0.1939	–0.3775
Kövesvárad, sp. A	n	4	4	4
	mean $\pm$ S.D.	15.70 $\pm$ 1.160	9.33 $\pm$ 0.544	0.5956 $\pm$ 0.043
	min.–max.	14.6–16.8	8.9–10.1	0.5361–0.6370
Gombasek	n	3	3	3
	mean $\pm$ S.D.	13.63 $\pm$ 1.950	8.53 $\pm$ 1.457	0.6276 $\pm$ 0.073
	min.–max.	11.4–15.0	7.5–10.2	0.5448–0.6800

List of character abbreviations used in the tables: BLTA – buccal length of talon(id); BLTR – buccal length of trigon(id); IND1 – (LPA/LANT)/(LME/LPOST), for M1 sup.; LE1 – entoconid1-complex length; LE2 – entoconid2-complex length; LANT – length of anterior lobe; LINL – lingual length; LLTA – lingual length of talonid; LLTR – lingual length of trigon(id); LME – metacon length; LMEC – metacon-complex length; LPA – paracon length; LPAC – paracon-complex length; LPOST – length of posterior lobe; MAXL – maximal length; MAXW – maximal width; WCON – width of constriction; WANT – width of anterior lobe (across Pa); WPOST – width of posterior lobe (across Me); WTA – width of talonid; WTR – width of trigonid.

Table 2. Metric characters and index for m1 inf.

m1 inf.		MAXL	BLTR	LLTR	BLTR	LLTA	LE1	LE2	WTR
<i>U. arctos</i> (Balkan)	n	51	50	48	50	48	41	45	49
	mean $\pm$ S.D.	22.25 $\pm$ 1.052	14.07 $\pm$ 0.709	13.023 $\pm$ 0.802	8.21 $\pm$ 0.467	9.26 $\pm$ 0.53	4.81 $\pm$ 0.773	2.78 $\pm$ 0.530	8.70 $\pm$ 0.484
	min.–max.	20.3–24.8	12.8–15.8	11.0–14.9	6.9–9.2	8.1–10.4	3.9–8.1	1.8–4.0	7.6–9.4
<i>U. arctos</i> (Siberia)	n	21	21	21	21	21	16	19	21
	mean $\pm$ S.D.	24.17 $\pm$ 1.191	15.44 $\pm$ 0.848	13.94 $\pm$ 1.276	8.68 $\pm$ 0.479	10.26 $\pm$ 0.995	4.71 $\pm$ 0.689	3.28 $\pm$ 0.785	9.71 $\pm$ 0.620
	min.–max.	22.8–27.2	14.1–17.7	11.8–16.3	7.9–9.7	8.7–12.3	4.0–6.2	2.0–4.8	8.9–11.0
<i>U. arctos</i> (Tibet)	n	10	10	10	12	12	11	12	12
	mean $\pm$ S.D.	24.99 $\pm$ 1.016	16.08 $\pm$ 0.077	14.48 $\pm$ 0.793	8.86 $\pm$ 0.458	10.52 $\pm$ 0.567	5.04 $\pm$ 0.602	3.575 $\pm$ 0.567	10.29 $\pm$ 0.706
	min.–max.	23.7–26.3	15.3–17.4	13.7–15.7	8.2–9.5	9.7–11.2	4.1–6.0	2.7–4.5	9.1–11.5
<i>U. arctos</i> (Kamchatka)	n	20	21	21	20	20	7	21	21
	mean $\pm$ S.D.	25.04 $\pm$ 1.253	15.92 $\pm$ 1.132	14.69 $\pm$ 1.089	9.16 $\pm$ 0.452	10.51 $\pm$ 0.546	4.97 $\pm$ 0.403	3.65 $\pm$ 0.656	10.51 $\pm$ 0.650
	min.–max.	23.1–27.2	13.9–17.8	12.8–16.8	7.9–9.8	9.3–11.2	4.3–5.6	2.5–4.6	8.9–11.4
<i>U. arctos</i> (all specimens)	n	108	108	106	109	107	79	103	109
	mean $\pm$ S.D.	23.36 $\pm$ 1.708	14.87 $\pm$ 1.239	13.66 $\pm$ 1.224	8.53 $\pm$ 0.596	9.820 $\pm$ 0.872	4.83 $\pm$ 0.686	3.16 $\pm$ 0.701	9.44 $\pm$ 0.967
	min.–max.	19.9–27.2	12.3–17.8	11.0–16.8	6.9–9.8	8.1–12.3	3.9–8.1	1.8–4.8	7.6–11.5
	variance	2.9158	1.5362	1.4987	0.3557	0.7608	0.4702	0.4917	0.9349
	skewness	0.2041	0.3493	0.3345	–0.0098	0.4969	1.9930	0.4482	0.2897
	kurtosis	–0.5118	–0.3474	–0.3618	–0.313	–0.3814	6.4138	–0.4548	–0.7827
<i>U. deningeri</i> (C 718)	n	24	23	24	23	24	16	22	24
	mean $\pm$ S.D.	27.79 $\pm$ 1.557	17.43 $\pm$ 0.866	15.53 $\pm$ 0.816	10.33 $\pm$ 0.757	12.32 $\pm$ 1.130	5.02 $\pm$ 1.424	5.12 $\pm$ 1.740	10.17 $\pm$ 0.739
	min.–max.	24.5–31.5	16.4–19.3	14.2–16.9	8.9–12.0	10.4–14.9	3.6–10.0	0.0–8.3	8.6–11.8
<i>U. deningeri</i> (Koněprusy Caves)	n	20	21	22	27	26	24	26	23
	mean $\pm$ S.D.	27.03 $\pm$ 1.729	16.97 $\pm$ 1.230	15.16 $\pm$ 1.173	10.10 $\pm$ 0.662	11.92 $\pm$ 0.897	5.00 $\pm$ 1.439	5.24 $\pm$ 1.984	10.00 $\pm$ 0.626
	min.–max.	24.2–31.3	15.2–19.5	12.9–17.6	8.9–11.7	10.4–13.6	3.5–9.4	0.0–7.5	8.8–11.4
<i>U. deningeri</i> (Kozi Grzbiet)	n	1	1	1	3	2	3	3	3
	mean $\pm$ S.D.	25.20	16.50	14.60	10.37 $\pm$ 1.656	12.00 $\pm$ 1.980	4.97 $\pm$ 1.553	4.80 $\pm$ 0.265	10.07 $\pm$ 0.808
	min.–max.	–	–	–	8.8–12.1	10.6–13.4	3.7–6.7	4.6–5.1	9.2–10.8
<i>U. deningeri</i> (all specimens)	n	45	45	47	53	52	43	51	50
	mean $\pm$ S.D.	27.39 $\pm$ 1.677	17.19 $\pm$ 1.061	15.34 $\pm$ 1.003	10.21 $\pm$ 0.763	12.11 $\pm$ 1.042	5.00 $\pm$ 1.405	5.16 $\pm$ 1.804	10.09 $\pm$ 0.682
	min.–max.	24.2–31.5	15.2–19.5	12.9–17.6	8.8–12.1	10.4–14.9	3.5–10.0	0.0–8.3	8.6–11.8
	variance	2.8136	1.1256	1.0063	0.5816	1.0850	1.9733	3.254	0.4653
	skewness	0.2984	0.3646	–0.0415	0.2659	0.4499	2.0664	–1.3593	0.2859
	kurtosis	0.0460	–0.1553	0.1169	0.0390	–0.4091	4.6588	2.3645	–0.0602
Kövesvárad, sp. A	n	1	1	1	1	1	1	3	2
	mean $\pm$ S.D.	30.10	18.20	17.00	11.80	13.00	5.80	4.70 $\pm$ 2.427	10.95 $\pm$ 0.354
	min.–max.	–	–	–	–	–	–	3.2–7.5	10.7–11.2
Chlum, sp. A	n	2	2	3	2	3	0	0	2
	mean $\pm$ S.D.	26.65 $\pm$ 0.495	16.90 $\pm$ 0.424	15.80 $\pm$ 1.127	9.70 $\pm$ 0.141	11.77 $\pm$ 0.513	–	–	10.05 $\pm$ 0.636
	min.–max.	26.3–27.0	16.6–17.2	15.1–17.1	9.6–9.8	11.2–12.2	–	–	9.6–10.5
Chlum, sp. B	n = 1	22.9	14.1	13.4	8.8	9.6	5.7	2.2	8.4
Gombasek	n	0	0	1	4	5	2	3	2
	mean $\pm$ S.D.	–	–	16.10	9.48 $\pm$ 0.435	10.98 $\pm$ 0.691	7.35 $\pm$ 0.212	1.50 $\pm$ 2.598	9.05 $\pm$ 0.495
	min.–max.	–	–	–	8.9–9.9	10.2–11.9	7.2–7.5	0.0–4.5	8.7–9.4
Süßenborn	n = 1	25.7	16.1	15.8	9.4	9.8	6.8	0	10.3
Eberbach	n = 1	25.4	16.5	14.6	8.9	10.9	5.7	3.4	10.2

Table 2. continued

m1 inf.		WTA	WCON	WTR/MAXL	WTA/WTR	LLTR/MAXL	BLTR/MAXL	LE2/LE1
	n	49	50	49	48	48	50	41
<i>U. arctos</i> (Balkan)	mean $\pm$ S.D.	10.84 $\pm$ 0.647	9.09 $\pm$ 0.659	0.3911 $\pm$ 0.016	1.2435 $\pm$ 0.043	0.5829 $\pm$ 0.019	0.6321 $\pm$ 0.013	0.5871 $\pm$ 0.135
	min.–max.	9.6–12.3	7.9–10.7	0.3632–0.4259	1.1222–1.337	0.5419–0.6336	0.6052–0.6700	0.3210–0.9744
	n	21	21	21	21	21	21	15
<i>U. arctos</i> (Siberia)	mean $\pm$ S.D.	11.85 $\pm$ 0.847	10.22 $\pm$ 0.767	0.4020 $\pm$ 0.017	1.2202 $\pm$ 0.042	0.5764 $\pm$ 0.040	0.6390 $\pm$ 0.013	0.7075 $\pm$ 0.201
	min.–max.	10.8–13.8	9.4–12.1	0.3586–0.4304	1.1569–1.289	0.5021–0.6573	0.6184–0.6595	0.3871–1.1429
	n	11	12	10	11	10	10	11
<i>U. arctos</i> (Tibet)	mean $\pm$ S.D.	12.56 $\pm$ 0.830	10.68 $\pm$ 0.911	0.4165 $\pm$ 0.019	1.2313 $\pm$ 0.042	0.5793 $\pm$ 0.018	0.6434 $\pm$ 0.013	0.7315 $\pm$ 0.190
	min.–max.	11.5–13.7	9.4–12.0	0.3882–0.4392	1.1616–1.2816	0.5498–0.6039	0.6255–0.6616	0.4828–1.024
	n	19	21	20	19	20	20	7
<i>U. arctos</i> (Kamchatka)	mean $\pm$ S.D.	12.35 $\pm$ 0.836	11.07 $\pm$ 0.814	0.4196 $\pm$ 0.020	1.1794 $\pm$ 0.054	0.5861 $\pm$ 0.030	0.6373 $\pm$ 0.028	0.6558 $\pm$ 0.155
	min.–max.	11.0–13.9	9.9–12.6	0.3836–0.4631	1.0476–1.2809	0.5378–0.6885	0.5890–0.7295	0.4464–0.9070
	n	105	110	106	104	105	107	78
<i>U. arctos</i> (all specimens)	mean $\pm$ S.D.	11.52 $\pm$ 1.015	9.90 $\pm$ 1.098	0.4027 $\pm$ 0.021	1.2246 $\pm$ 0.050	0.5823 $\pm$ 0.027	0.6357 $\pm$ 0.017	0.6390 $\pm$ 0.165
	min.–max.	9.6–13.9	7.9–12.6	0.3586–0.4631	1.0476–1.3370	0.5021–0.6885	0.5890–0.7295	0.3210–1.1429
	variance	1.0311	1.2045	0.0004	0.0025	0.0007	0.0003	0.0271
	skewness	0.4639	0.4379	0.3033	–0.487	0.4105	1.3687	0.6190
	kurtosis	–0.385	–0.4452	0.1587	0.5276	2.7482	7.3554	0.6180
	n	25	24	24	24	23	22	16
<i>U. deningeri</i> (C 718)	mean $\pm$ S.D.	12.93 $\pm$ 0.955	10.65 $\pm$ 0.932	0.3660 $\pm$ 0.020	1.2760 $\pm$ 0.056	0.5564 $\pm$ 0.027	0.6268 $\pm$ 0.017	1.0416 $\pm$ 0.389
	min.–max.	11.5–14.9	8.6–12.8	0.3380–0.4338	1.1961–1.3689	0.5180–0.6176	0.5993–0.6544	0.0000–1.5208
	n	26	26	20	20	20	20	22
<i>U. deningeri</i> (Koněprusy Caves)	mean $\pm$ S.D.	12.53 $\pm$ 0.789	10.29 $\pm$ 0.794	0.3689 $\pm$ 0.017	1.2591 $\pm$ 0.049	0.5594 $\pm$ 0.022	0.6245 $\pm$ 0.012	1.1930 $\pm$ 0.424
	min.–max.	11.3–13.7	9.0–11.9	0.3333–0.4008	1.1584–1.3864	0.5108–0.6061	0.6014–0.6451	0.0000–1.7027
	n	3	2	1	3	1	1	3
<i>U. deningeri</i> (Kozi Grzbiet)	mean $\pm$ S.D.	12.87 $\pm$ 1.358	10.4 $\pm$ 1.414	0.36508	1.2767 $\pm$ 0.042	0.57937	0.65476	1.0365 $\pm$ 0.3460
	min.–max.	11.6–14.3	9.4–11.4	–	1.241–1.3241	–	–	0.6866–1.3784
	n	54	52	45	47	44	43	41
<i>U. deningeri</i> (all specimens)	mean $\pm$ S.D.	12.73 $\pm$ 0.904	10.46 $\pm$ 0.879	0.3673 $\pm$ 0.018	1.2690 $\pm$ 0.052	0.5583 $\pm$ 0.024	0.6264 $\pm$ 0.015	1.1225 $\pm$ 0.404
	min.–max.	11.3–14.9	8.6–12.8	0.3333–0.4338	1.1584–1.3864	0.5108–0.6176	0.5993–0.6548	0.0000–1.7027
	variance	0.8166	0.7719	0.0003	0.0027	0.0006	0.0002	0.1628
	skewness	0.2978	0.3188	0.9934	0.1156	0.4118	0.2459	–1.2486
	kurtosis	–0.7851	–0.1731	2.7662	–0.152	–0.0722	–0.6951	1.6503
	n	3	2	1	2	1	1	1
Kövesvárad, sp. A	mean $\pm$ S.D.	13.77 $\pm$ 0.981	11.65 $\pm$ 1.344	0.37210	1.28 $\pm$ 0.068	0.56478	0.60465	1.29310
	min.–max.	13.2–14.9	10.7–12.6	–	1.2336–1.3304	–	–	–
	n	3	2	1	1	2	2	0
Chlum, sp. A	mean $\pm$ S.D.	12.7 $\pm$ 0.265	10.4 $\pm$ 0.000	0.36502	1.29167	0.5686 $\pm$ 0.008	0.6341 $\pm$ 0.004	–
	min.–max.	12.4–12.9	10.4–10.4			0.5630–0.5741	0.6312–0.6370	–
	n = 1	10.6	8.4	0.366812227	1.261904762	0.585152838	0.615720524	0.385964912
Gombasek	n	3	4	0	0	0	0	2
	mean $\pm$ S.D.	11.93 $\pm$ 1.102	10.35 $\pm$ 0.443	–	–	–	–	0 $\pm$ 0.000
	min.–max.	10.8–13.0	9.9–10.9	–	–	–	–	0.0000–0.0000
Süßenborn	n = 1	11.7	10.6	0.40077821	1.13592233	0.614785992	0.626459144	0
Eberbach	n = 1	12.1	9.7	0.401574803	1.18627451	0.57480315	0.649606299	0.596491228

Table 3. Metric characters and index for m2 inf.

m2 inf.		MAXL	BLTR	LLTR	BLTR	LLTA	LE1	LE2
	n	54	52	51	52	51	38	47
<i>U. arctos</i> (Balkan)	mean $\pm$ S.D.	22.93 $\pm$ 1.263	14.54 $\pm$ 0.912	12.11 $\pm$ 0.789	8.44 $\pm$ 0.721	10.80 $\pm$ 0.711	4.56 $\pm$ 0.594	4.02 $\pm$ 0.504
	min.–max.	20.5–25.3	13.0–16.6	10.5–13.8	6.9–10.4	9.4–12.5	3.5–5.8	3.2–5.6
	n	18	21	19	21	17	18	21
<i>U. arctos</i> (Siberia)	mean $\pm$ S.D.	24.24 $\pm$ 1.121	15.58 $\pm$ 0.934	13.21 $\pm$ 0.922	9.08 $\pm$ 0.762	11.33 $\pm$ 0.953	4.92 $\pm$ 0.477	4.19 $\pm$ 0.587
	min.–max.	22.6–26.5	14.1–17.8	12.0–14.7	7.5–10.1	9.3–12.9	4.1–5.8	3.0–5.3
	n	12	12	12	12	12	11	12
<i>U. arctos</i> (Tibet)	mean $\pm$ S.D.	25.99 $\pm$ 0.614	16.33 $\pm$ 0.615	13.98 $\pm$ 0.569	9.68 $\pm$ 0.551	12.12 $\pm$ 0.469	5.37 $\pm$ 0.283	4.42 $\pm$ 0.369
	min.–max.	25.1–27.0	15.5–17.5	13.1–15.3	8.8–10.2	11.3–13.0	4.7–5.8	3.7–5.10
	n	21	22	22	22	22	15	22
<i>U. arctos</i> (Kamchatka)	mean $\pm$ S.D.	25.13 $\pm$ 1.324	16.06 $\pm$ 1.044	13.51 $\pm$ 0.873	9.17 $\pm$ 0.644	11.73 $\pm$ 0.805	5.33 $\pm$ 0.635	4.18 $\pm$ 1.020
	min.–max.	22.9–27.4	14.3–17.7	12.2–15.2	8.2–10.2	10.1–12.9	4.5–7.1	0.0–5.2
	n	108	112	109	110	105	85	107
<i>U. arctos</i> (all specimens)	mean $\pm$ S.D.	23.91 $\pm$ 1.644	15.25 $\pm$ 1.166	12.83 $\pm$ 1.068	8.85 $\pm$ 0.807	11.21 $\pm$ 0.910	4.89 $\pm$ 0.641	4.13 $\pm$ 0.673
	min.–max.	20.5–27.4	13.0–17.8	10.5–15.3	6.9–10.4	9.1–13.0	3.5–7.1	0.0–5.6
	variance	2.7037	1.3587	1.1398	0.6513	0.8288	0.4106	0.4527
	skewness	0.0115	0.1084	0.0834	–0.1124	–0.019	0.1350	–2.0879
	kurtosis	–0.6388	–0.5172	–0.5029	–0.5572	–0.7469	0.5718	12.2167
<i>U. deningeri</i> (C 718)	n	16	16	17	15	16	9	17
	mean $\pm$ S.D.	28.29 $\pm$ 1.919	17.44 $\pm$ 1.216	15.21 $\pm$ 1.355	10.85 $\pm$ 1.149	13.26 $\pm$ 0.992	6.23 $\pm$ 0.474	4.74 $\pm$ 1.493
	min.–max.	25.4–31.1	15.9–20.0	12.5–17.5	9.5–13.0	11.9–14.9	5.4–6.8	0.0–6.1
<i>U. deningeri</i> (Koněprusy Caves)	n	15	15	15	17	16	15	15
	mean $\pm$ S.D.	29.54 $\pm$ 1.956	18.38 $\pm$ 1.286	15.72 $\pm$ 1.002	11.06 $\pm$ 0.857	13.78 $\pm$ 1.463	6.07 $\pm$ 1.147	5.01 $\pm$ 0.632
	min.–max.	24.9–32.8	15.7–20.7	13.5–17.3	9.1–12.1	10.5–15.8	4.8–8.8	3.6–6.2
<i>U. deningeri</i> (Kozi Grzbiet)	n	8	7	8	9	10	7	10
	mean $\pm$ S.D.	29.24 $\pm$ 1.918	17.80 $\pm$ 1.308	15.84 $\pm$.0998	11.41 $\pm$ 0.985	13.16 $\pm$ 1.492	6.11 $\pm$ 0.821	4.68 $\pm$ 0.766
	min.–max.	26.5–31.5	15.8–19.5	13.9–17.4	10.1–12.5	10.8–15.7	5.4–7.5	3.5–5.8
<i>U. deningeri</i> (all specimens)	n	39	38	40	41	42	31	42
	mean $\pm$ S.D.	28.97 $\pm$ 1.969	17.88 $\pm$ 1.299	15.53 $\pm$ 1.171	11.06 $\pm$ 0.997	13.43 $\pm$ 1.307	6.13 $\pm$ 0.902	4.82 $\pm$ 1.075
	min.–max.	24.9–32.8	15.7–20.7	12.5–17.5	9.1–13.0	10.5–15.8	4.8–8.8	0.0–6.2
	variance	3.8770	1.6877	1.3721	0.9939	1.7072	0.8140	1.1565
	skewness	–0.1684	0.3617	–0.5787	–0.0193	–0.1272	0.9197	–2.3014
	kurtosis	–0.7066	–0.5471	–0.1115	–0.9263	–0.3762	1.0847	8.8829
<i>Kövesvárad</i> , sp. A	n	3	4	5	3	2	4	3
	mean $\pm$ S.D.	29.67 $\pm$ 1.429	18.33 $\pm$ 1.295	16.34 $\pm$ 1.498	11.07 $\pm$ 0.404	12.9 $\pm$ 0.849	6.00 $\pm$ 0.383	4.87 $\pm$ 0.737
	min.–max.	28.1–30.9	16.4–19.2	13.9–18.0	10.6–11.3	12.3–13.5	5.7–6.5	4.3–5.7
<i>Chlum</i> , sp. A	n	8	8	8	9	9	4	14
	mean $\pm$ S.D.	28.49 $\pm$ 1.494	17.73 $\pm$ 0.956	15.31 $\pm$ 1.372	10.47 $\pm$ 1.077	13.28 $\pm$ 1.202	6.60 $\pm$ 1.017	4.66 $\pm$ 0.663
	min.–max.	26.3–30.2	16.6–18.9	13.3–17.1	8.3–11.7	10.6–14.4	5.2–7.4	3.3–6.1
<i>Chlum</i> , sp. B	n = 1	23.8	15.2	12.8	8.7	11.0	4.9	3.7
<i>Gombasek</i>	n	9	8	8	8	8	7	9
	mean $\pm$ S.D.	28.23 $\pm$ 1.440	17.31 $\pm$ 1.158	14.84 $\pm$ 1.241	10.78 $\pm$ 1.058	13.23 $\pm$ 1.176	5.86 $\pm$.0454	4.37 $\pm$ 0.889
	min.–max.	26.4–30.4	16.2–19.7	12.7–16.6	9.8–13.2	11.5–14.7	5.2–6.4	3.1–5.9
<i>Süßenborn</i>	n	4	4	5	3	4	4	5
	mean $\pm$ S.D.	28.48 $\pm$ 1.763	17.13 $\pm$ 0.866	15.08 $\pm$ 0.602	10.8 $\pm$ 0.954	13.33 $\pm$ 1.396	6.03 $\pm$ 0.574	4.82 $\pm$ 1.402
	min.–max.	26.3–30.6	16.3–18.1	14.3–15.9	9.9–11.8	11.3–14.5	5.2–6.5	2.5–6.3
<i>Eberbach</i>	n = 1	27.1	17.4	13.5	9.8	13.5	5.6	5.1

Table 3. continued

m2 inf.		WTR	WTA	WCON	WCON/MAXL	WTR/MAXL	LE2/LE1	BLTA/LLTA
	n	53	52	50	50	53	38	49
<i>U. arctos</i> (Balkan)	mean $\pm$ S.D.	13.11 $\pm$ 0.772	14.08 $\pm$ 0.801	12.96 $\pm$ 0.818	0.5662 $\pm$ 0.023	0.5723 $\pm$ 0.021	0.8923 $\pm$ 0.123	0.7804 $\pm$ 0.050
	min.–max.	11.4–15.2	12.4–16.2	11.0–15.0	0.5236–0.6298	0.5265–0.6165	0.6275–1.2105	0.6699–0.8814
	n	21	20	21	18	18	18	17
<i>U. arctos</i> (Siberia)	mean $\pm$ S.D.	14.50 $\pm$ 0.709	15.00 $\pm$ 0.862	14.519 $\pm$ 0.987	0.5888 $\pm$ 0.030	0.591 $\pm$ 0.024	0.8445 $\pm$ 0.141	0.7995 $\pm$ 0.050
	min.–max.	13.4–16.0	13.5–16.4	13.3–16.6	0.5375–0.6285	0.5396–0.6282	0.5882–1.0714	0.7209–0.8817
	n	9	11	12	12	9	11	12
<i>U. arctos</i> (Tibet)	mean $\pm$ S.D.	15.42 $\pm$ 0.972	16.06 $\pm$ 0.895	15.53 $\pm$ 0.976	0.5973 $\pm$ 0.028	0.5933 $\pm$ 0.028	0.8283 $\pm$ 0.087	0.8002 $\pm$ 0.053
	min.–max.	13.9–16.4	14.8–17.2	13.7–17.1	0.5415–0.6429	0.5494–0.6318	0.6852–0.9623	0.6923–0.8632
	n	23	19	22	20	21	15	22
<i>U. arctos</i> (Kamchatka)	mean $\pm$ S.D.	15.48 $\pm$ 1.025	15.35 $\pm$ 0.925	15.42 $\pm$ 0.946	0.6124 $\pm$ 0.017	0.6127 $\pm$ 0.020	0.7921 $\pm$ 0.243	0.7826 $\pm$ 0.036
	min.–max.	13.7–17.3	13.9–16.8	13.8–17.1	0.5840–0.6527	0.5763–0.6450	0.0000–1.0400	0.6694–0.8403
	n	23	19	22	20	21	15	22
<i>U. arctos</i> (all specimens)	n	111	107	110	103	104	85	103
	mean $\pm$ S.D.	14.14 $\pm$ 1.358	14.76 $\pm$ 1.118	14.16 $\pm$ 1.475	0.5852 $\pm$ 0.032	0.5867 $\pm$ 0.027	0.8481 $\pm$ 0.156	0.7885 $\pm$ 0.048
	min.–max.	11.4–17.3	12.4–17.2	11–17.5	0.5236–0.6574	0.5265–0.648	0.0000–1.2105	0.6694–0.8817
	variance	1.8443	1.2503	2.1744	0.0010	0.0007	0.0242	0.0023
	skewness	0.3944	0.2694	0.2861	0.1301	0.1197	–1.6982	–0.2443
	kurtosis	–0.4195	–0.7575	–0.5446	–0.8527	–0.7287	9.5611	–0.4623
	n	16	16	17	16	16	9	15
<i>U. deningeri</i> (C 718)	mean $\pm$ S.D.	15.46 $\pm$ 1.299	17.09 $\pm$ 1.174	15.65 $\pm$ 1.166	0.5516 $\pm$ 0.025	0.5465 $\pm$ 0.028	0.7753 $\pm$ 0.155	0.815 $\pm$ 0.069
	min.–max.	13.3–17.7	14.8–18.8	13.6–17.5	0.5185–0.6163	0.5018–0.6279	0.5439–1.0370	0.7090–0.9767
	n	17	15	14	13	15	15	16
<i>U. deningeri</i> (Koněprusy Caves)	mean $\pm$ S.D.	15.96 $\pm$ 0.887	17.22 $\pm$ 0.856	15.89 $\pm$ 1.427	0.5407 $\pm$ 0.044	0.5456 $\pm$ 0.022	0.8479 $\pm$ 0.163	0.8099 $\pm$ 0.051
	min.–max.	14.7–17.9	16.2–18.5	13.1–18.4	0.4613–0.6174	0.5119–0.5904	0.5682–1.0625	0.7203–0.8976
	n	7	8	7	7	7	7	9
<i>U. deningeri</i> (Kozi Grzbiet)	mean $\pm$ S.D.	16.67 $\pm$ 1.052	17.31 $\pm$ 1.301	16.36 $\pm$ 1.830	0.5572 $\pm$ 0.054	0.5687 $\pm$ 0.039	0.7244 $\pm$ 0.104	0.8769 $\pm$ 0.094
	min.–max.	15.4–18.4	15.9–19.2	14.4–19.2	0.4949–0.6649	0.5111–0.6389	0.6000–0.8788	0.7214–1.0000
	n	7	8	7	7	7	7	9
<i>U. deningeri</i> (all specimens)	n	40	39	38	36	38	31	40
	mean $\pm$ S.D.	15.89 $\pm$ 1.153	17.18 $\pm$ 1.065	15.87 $\pm$ 1.383	0.5487 $\pm$ 0.038	0.5503 $\pm$ 0.029	0.7989 $\pm$ 0.154	0.8269 $\pm$ 0.073
	min.–max.	13.3–18.4	14.8–19.2	13.1–19.5	0.4613–0.6649	0.5018–0.6389	0.5439–1.0625	0.7090–1.0000
	variance	1.3290	1.1340	1.9140	0.0015	0.0008	0.0236	0.0053
	skewness	–0.1514	–0.1546	0.1535	0.6282	1.0661	0.2597	0.6603
	kurtosis	–0.1182	–0.7146	–0.2	1.7659	2.1442	–0.9994	0.0237
	n	5	4	3	2	2	3	2
Kövesvárad, sp. A	mean $\pm$ S.D.	17.44 $\pm$ 0.932	18.40 $\pm$ 1.134	16.43 $\pm$ 0.764	0.5626 $\pm$ 0.010	0.6022 $\pm$ 0.011	0.8319 $\pm$ 0.093	0.8519 $\pm$ 0.094
	min.–max.	16.7–18.6	17.8–20.1	15.6–17.1	0.5552–0.5700	0.5943–0.6100	0.7544–0.9344	0.7852–0.9187
	n	16	14	14	6	8	4	9
Chlum, sp. A	mean $\pm$ S.D.	15.91 $\pm$ 1.031	16.98 $\pm$ 0.777	15.90 $\pm$ 0.961	0.5602 $\pm$ 0.010	0.5592 $\pm$ 0.023	0.6867 $\pm$ 0.199	0.7944 $\pm$ 0.110
	min.–max.	13.9–17.6	15.5–18.5	13.7–17.0	0.5464–0.5729	0.5219–0.6029	0.4521–0.8846	0.5929–1.0000
	n	16	14	14	6	8	4	9
Chlum, sp. B	n = 1	13.6	15.3	14.5	0.6092	0.5714	0.7551	0.7909
Gombasek	n	9	9	8	8	9	7	8
	mean $\pm$ S.D.	15.78 $\pm$ 1.360	17.16 $\pm$ 1.206	15.40 $\pm$ 1.222	0.5483 $\pm$ 0.036	0.5584 $\pm$ 0.031	0.7796 $\pm$ 0.153	0.8172 $\pm$ 0.072
	min.–max.	13.5–18.2	15.3–19.3	13.6–17.8	0.4934–0.6014	0.5000–0.6149	0.5079–0.9423	0.7415–0.9304
Süßenborn	n	5	5	5	4	4	4	3
	mean $\pm$ S.D.	15.72 $\pm$ 0.779	17.62 $\pm$ 0.311	16.10 $\pm$ 0.644	0.5716 $\pm$ 0.059	0.5594 $\pm$ 0.051	0.7277 $\pm$ 0.167	0.8374 $\pm$ 0.050
	min.–max.	15.0–16.7	17.1–17.9	15.6–17.1	0.5131–0.6502	0.5226–0.6350	0.4808–0.8413	0.7810–0.8761
Eberbach	n = 1	16.3	15.7	14.7	0.5424	0.6015	0.9107	0.7259

Table 4. Metric characters and index for m3 inf.

m3 inf.		MAXL	BLTR	WTR	BLTR/MAXL	WTR/MAXL
<i>U. arctos</i> (Balkan)	n	38	33	36	32	35
	mean $\pm$ S.D.	19.29 $\pm$ 1.445	12.92 $\pm$ 1.051	14.08 $\pm$ 0.801	0.6666 $\pm$ 0.040	0.7345 $\pm$ 0.048
	min.–max.	16.2–22.0	11.2–16.3	12.3–16.2	0.5867–0.7477	0.6376–0.8235
<i>U. arctos</i> (Siberia)	n	11	13	14	9	10
	mean $\pm$ S.D.	19.71 $\pm$ 1.891	13.07 $\pm$ 1.180	14.33 $\pm$ 1.159	0.6626 $\pm$ 0.043	0.7331 $\pm$ 0.040
	min.–max.	17.0–22.2	10.6–15.0	12.3–16.9	0.6199–0.7363	0.6937–0.8059
<i>U. arctos</i> (Tibet)	n	11	9	12	9	11
	mean $\pm$ S.D.	20.97 $\pm$ 1.317	13.26 $\pm$ 1.184	15.45 $\pm$ 1.149	0.6254 $\pm$ 0.049	0.7377 $\pm$ 0.043
	min.–max.	19.5–23.3	11.5–14.9	13.0–17.0	0.5647–0.7163	0.6250–0.7970
<i>U. arctos</i> (Kamchatka)	n	12	8	12	8	12
	mean $\pm$ S.D.	20.23 $\pm$ 1.125	12.69 $\pm$ 0.753	14.70 $\pm$ 0.927	0.6295 $\pm$ 0.035	0.7269 $\pm$ 0.033
	min.–max.	17.7–21.8	11.6–14.0	12.9–16.0	0.5905–0.6771	0.6615–0.7656
<i>U. arctos</i> (all specimens)	n	76	66	79	61	72
	mean $\pm$ S.D.	19.79 $\pm$ 1.545	13.00 $\pm$ 1.054	14.52 $\pm$ 1.112	0.6551 $\pm$ 0.043	0.7345 $\pm$ 0.042
	min.–max.	16.2–23.3	10.6–16.3	12.3–17.5	0.5647–0.7477	0.6250–0.8235
	variance	2.3862	1.1103	1.2359	0.0018	0.0018
	skewness	–0.0573	0.4299	0.4633	0.1856	–0.0959
	kurtosis	–0.3141	0.4771	0.1541	–0.3509	–0.0144
<i>U. deningeri</i> (C 718)	n	14	13	14	12	13
	mean $\pm$ S.D.	24.18 $\pm$ 1.607	14.62 $\pm$ 1.333	17.81 $\pm$ 1.335	0.5915 $\pm$ 0.044	0.7412 $\pm$ 0.046
	min.–max.	20.3–26.3	12.9–17.3	15.9–20.3	0.5498–0.6652	0.6589–0.8122
<i>U. deningeri</i> (Koněprusy Caves)	n	20	20	21	19	20
	mean $\pm$ S.D.	25.04 $\pm$ 1.659	15.47 $\pm$ 1.136	17.82 $\pm$ 1.107	0.6176 $\pm$ 0.046	0.7117 $\pm$ 0.045
	min.–max.	22.5–28.0	13.5–18.4	16.1–21.4	0.5145–0.6916	0.6377–0.7985
<i>U. deningeri</i> (Kozi Grzbiet)	n	7	8	7	7	6
	mean $\pm$ S.D.	24.30 $\pm$ 2.263	15.43 $\pm$ 0.991	17.87 $\pm$ 0.986	0.6314 $\pm$ 0.027	0.7449 $\pm$ 0.058
	min.–max.	20.0–26.4	13.3–16.3	16.9–19.7	0.6061–0.6695	0.6873–0.8500
<i>U. deningeri</i> (all specimens)	n	41	41	42	38	39
	mean $\pm$ S.D.	24.62 $\pm$ 1.757	15.19 $\pm$ 1.213	17.82 $\pm$ 1.142	0.6119 $\pm$ 0.044	0.7267 $\pm$ 0.048
	min.–max.	20.0–28.0	12.9–18.4	15.9–21.4	0.5145–0.6916	0.6377–0.8500
	variance	3.0870	1.4722	1.3053	0.0019	0.0023
	skewness	–0.5258	–0.0541	0.9501	–0.1927	0.4625
	kurtosis	0.4652	–0.005	1.3660	–0.7207	–0.1324
Kövesvárad, sp. A	n	5	5	4	5	4
	mean $\pm$ S.D.	23.46 $\pm$ 2.869	14.66 $\pm$ 2.088	17.13 $\pm$ 0.250	0.6269 $\pm$ 0.078	0.7345 $\pm$ 0.086
	min.–max.	21.4–28.5	11.8–16.8	16.8–17.4	0.5339–0.7336	0.6105–0.8037
Kövesvárad, sp. B	n = 1	15.5	10.5	14.5	0.6774	0.9355
Chlum, sp. A	n	7	5	7	5	6
	mean $\pm$ S.D.	22.17 $\pm$ 1.953	13.40 $\pm$ 1.722	16.64 $\pm$ 0.728	0.5994 $\pm$ 0.078	0.7575 $\pm$ 0.068
	min.–max.	20.2–25.3	10.6–15.0	15.7–18.1	0.5138–0.6980	0.6482–0.8168
Gombasek	n	6	3	4	3	4
	mean $\pm$ S.D.	24.88 $\pm$ 4.417	17.03 $\pm$ 3.109	18.43 $\pm$ 2.512	0.6000 $\pm$ 0.045	0.7059 $\pm$ 0.057
	min.–max.	20.5–30.7	13.8–20.0	16.2–21.2	0.5679–0.6515	0.6678–0.7902
Eberbach	n = 1	21.4	14.4	15.9	0.6729	0.743

Table 5. Metric characters and index for P4 sup.

P4 sup.		MAXL	MAXW	WCON	LME	LMEC
	n	66	55	68	61	58
<i>U. arctos</i> (Balkan)	mean $\pm$ S.D.	14.93 $\pm$ 0.954	11.38 $\pm$ 0.600	9.47 $\pm$ 0.493	4.62 $\pm$ 0.369	6.06 $\pm$ 0.515
	min.–max.	13.1–17.3	9.9–12.7	8.4–10.8	3.5–5.5	4.9–7.5
<i>U. arctos</i> (Siberia)	n	23	3	23	20	25
	mean $\pm$ S.D.	15.27 $\pm$ 1.522	11.73 $\pm$ 0.115	10.50 $\pm$ 0.672	4.67 $\pm$ 0.717	5.87 $\pm$ 0.645
	min.–max.	11.4–17.5	11.6–11.8	9.7–12.2	3.1–5.6	4.6–6.9
<i>U. arctos</i> (Tibet)	n	12	0	12	12	12
	mean $\pm$ S.D.	17.78 $\pm$ 1.077	–	11.40 $\pm$ 0.526	4.83 $\pm$ 0.358	6.58 $\pm$ 0.463
	min.–max.	16.4–19.2	–	10.5–12.2	4.2–5.3	5.9–7.4
<i>U. arctos</i> (Kamchatka)	n	18	18	21	19	16
	mean $\pm$ S.D.	17.32 $\pm$ 1.260	12.46 $\pm$ 1.371	11.15 $\pm$ 1.005	4.94 $\pm$ 0.748	6.85 $\pm$ 0.947
	min.–max.	15.2–19.4	10.3–14.4	9.5–12.6	3.9–6.2	5.4–8.4
<i>U. arctos</i> (all specimens)	n	124	76	129	116	116
	mean $\pm$ S.D.	15.63 $\pm$ 1.588	11.65 $\pm$ 0.947	10.12 $\pm$ 1.062	4.70 $\pm$ 0.537	6.16 $\pm$ 0.702
	min.–max.	11.4–19.4	9.9–14.4	7.9–12.6	3.1–6.2	4.6–8.4
	variance	2.5213	0.8964	1.1274	0.2882	0.4932
	skewness	0.3427	0.9823	0.5907	0.0862	0.5219
	kurtosis	–0.0402	1.1429	–0.3469	0.5130	0.7407
<i>U. deningeri</i> (C 718)	n	7	8	8	7	8
	mean $\pm$ S.D.	19.93 $\pm$ 0.670	14.05 $\pm$ 0.695	12.38 $\pm$ 0.831	5.94 $\pm$ 0.854	8.00 $\pm$ 0.526
	min.–max.	18.8–20.9	13.4–15.2	11.4–14.0	4.4–7.3	7.1–8.6
<i>U. deningeri</i> (Koněprusy Caves)	n	20	21	21	20	21
	mean $\pm$ S.D.	18.04 $\pm$ 1.033	12.86 $\pm$ 0.891	11.24 $\pm$ 0.642	5.37 $\pm$ 0.739	7.48 $\pm$ 0.570
	min.–max.	15.9–20.2	11.3–14.3	10.2–12.3	4.5–7.7	6.7–9.0
<i>U. deningeri</i> (Kozi Grzbiet)	n	9	8	9	7	8
	mean $\pm$ S.D.	18.14 $\pm$ 1.058	12.59 $\pm$ 1.261	11.12 $\pm$ 1.174	4.96 $\pm$ 0.519	6.65 $\pm$ 0.778
	min.–max.	16.4–19.5	10.9–14.5	9.5–13.5	4.3–5.8	5.3–7.9
<i>U. deningeri</i> (all specimens)	valid N	36	37	38	34	37
	mean	18.43 $\pm$ 1.212	13.06 $\pm$ 1.066	11.45 $\pm$ 0.942	5.40 $\pm$ 0.777	7.41 $\pm$ 0.749
	minimum	15.9–20.9	10.9–15.2	9.5–14.0	4.3–7.7	5.3–9.0
	variance	1.4691	1.1353	0.8874	0.6036	0.5604
	skewness	–0.1328	–0.1866	0.4530	1.0141	–0.2849
	kurtosis	–0.2993	–0.3625	0.6665	1.5207	0.8996
<i>Kövesvárad</i> , sp. A	n	1	1	0	2	1
	mean $\pm$ S.D.	20	11.2	–	5.90 $\pm$ 0.566	8
	min.–max.	–	–	–	5.5–6.3	–
<i>Kövesvárad</i> , sp. B	n = 1	14.7	10.2	8.8	4.8	6.9
<i>Chlum</i> , sp. A	n	5	8	7	7	6
	mean $\pm$ S.D.	19.32 $\pm$ 1.038	12.80 $\pm$ 0.832	11.30 $\pm$ 1.399	5.94 $\pm$ 0.907	8.03 $\pm$ 1.196
	min.–max.	18.2–20.6	11.1–13.8	8.9–13.6	4.2–6.7	6.0–9.2
<i>Gombasek</i>	n	4	4	4	3	3
	mean $\pm$ S.D.	18.08 $\pm$ 1.212	12.80 $\pm$ 1.669	11.25 $\pm$ 1.389	5.23 $\pm$ 0.153	6.97 $\pm$ 0.808
	min.–max.	16.7–19.6	11.3–14.7	10.0–13.2	5.1–5.4	6.1–7.7

Table 5. continued

P4 sup.		LINL	LME/LMEC	MAXW/MAXL	LINL/MAXL	WCON/LINL
	n	65	55	53	64	65
<i>U. arctos</i> (Balkan)	mean $\pm$ S.D.	11.86 $\pm$ 0.669	0.7618 $\pm$ 0.044	0.7644 $\pm$ 0.042	0.7951 $\pm$ 0.046	0.7999 $\pm$ 0.035
	min.–max.	10.4–14.2	0.6667–0.8548	0.6644–0.8406	0.6545–0.8987	0.7254–0.8879
	n	22	20	2	21	23
<i>U. arctos</i> (Siberia)	mean $\pm$ S.D.	12.91 $\pm$ 0.605	0.8038 $\pm$ 0.100	0.7556 $\pm$ 0.074	0.8570 $\pm$ 0.083	0.8152 $\pm$ 0.040
	min.–max.	12.0–14.1	0.6739–1.0000	0.7030–0.8082	0.7429–1.1053	0.7578–0.9385
	n	12	12	0	12	12
<i>U. arctos</i> (Tibet)	mean $\pm$ S.D.	13.83 $\pm$ 0.819	0.7360 $\pm$ 0.042	–	0.7792 $\pm$ 0.046	0.8255 $\pm$ 0.039
	min.–max.	12.5–15.0	0.6563–0.7903	–	0.7143–0.8659	0.7571–0.8828
	n	16	15	16	15	16
<i>U. arctos</i> (Kamchatka)	mean $\pm$ S.D.	13.33 $\pm$ 1.261	0.7285 $\pm$ 0.038	0.7265 $\pm$ 0.054	0.7696 $\pm$ 0.046	0.8556 $\pm$ 0.043
	min.–max.	10.4–14.9	0.6375–0.8000	0.6131–0.7910	0.6842–0.8563	0.7941–0.9423
	n	118	106	71	115	119
<i>U. arctos</i> (all specimens)	mean $\pm$ S.D.	12.45 $\pm$ 1.066	0.7650 $\pm$ 0.066	0.7556 $\pm$ 0.048	0.8027 $\pm$ 0.060	0.8108 $\pm$ 0.045
	min.–max.	10.4–15.0	0.6375–1.0000	0.6131–0.8406	0.6545–1.1053	0.6723–0.9423
	variance	1.1355	0.0044	0.0023	0.0036	0.0020
	skewness	0.4458	1.4935	–0.6637	1.5446	0.1355
	kurtosis	–0.3414	4.1225	0.7279	7.5538	1.4580
	n	8	7	7	7	8
<i>U. deningeri</i> (C 718)	mean $\pm$ S.D.	15.94 $\pm$ 0.991	0.7285 $\pm$ 0.077	0.6970 $\pm$ 0.023	0.7868 $\pm$ 0.037	0.7765 $\pm$ 0.021
	min.–max.	14.5–17.8	0.5946–0.8488	0.6734–0.7287	0.7286–0.8308	0.7403–0.8138
	n	21	20	20	20	21
<i>U. deningeri</i> (Koněprusy Caves)	mean $\pm$ S.D.	14.45 $\pm$ 1.054	0.7182 $\pm$ 0.090	0.7111 $\pm$ 0.039	0.7985 $\pm$ 0.042	0.7793 $\pm$ 0.031
	min.–max.	12.8–16.5	0.5889–1.0000	0.6374–0.7736	0.7143–0.8678	0.7030–0.8333
	n	9	7	8	9	9
<i>U. deningeri</i> (Kozi Grzbiet)	mean $\pm$ S.D.	13.78 $\pm$ 1.550	0.7508 $\pm$ 0.068	0.6948 $\pm$ 0.034	0.7575 $\pm$ 0.046	0.8087 $\pm$ 0.039
	min.–max.	11.6–16.9	0.6232–0.8302	0.6606–0.7436	0.7073–0.8667	0.7676–0.8696
	valid N	38	34	35	36	38
<i>U. deningeri</i> (all specimens)	mean	14.61 $\pm$ 1.367	0.7271 $\pm$ 0.082	0.7046 $\pm$ 0.035	0.7860 $\pm$ 0.044	0.7857 $\pm$ 0.033
	minimum	11.6–17.8	0.5889–1.0000	0.6374–0.7736	0.7073–0.8678	0.7030–0.8696
	variance	1.8692	0.0068	0.0013	0.0020	0.0011
	skewness	–0.0109	1.0033	0.2736	0.0836	0.3935
	kurtosis	0.0693	2.4260	–0.5315	–0.9007	0.9402
	n	0	1	0	0	0
Kövesvárad, sp. A	mean $\pm$ S.D.	–	0.6875	–	–	–
	min.–max.	–	–	–	–	–
Kövesvárad, sp. B	n = 1	11.2	0.6957	0.6939	0.7619	0.7857
	n	5	6	4	5	4
Chlum, sp. A	mean $\pm$ S.D.	15.16 $\pm$ 1.254	0.7328 $\pm$ 0.029	0.6834 $\pm$ 0.042	0.7854 $\pm$ 0.061	0.7642 $\pm$ 0.042
	min.–max.	13.7–17.1	0.7000–0.7791	0.6262–0.7253	0.7087–0.8636	0.7133–0.8014
	n	4	3	4	4	4
Gombasek	mean $\pm$ S.D.	14.63 $\pm$ 2.161	0.7566 $\pm$ 0.071	0.7075 $\pm$ 0.070	0.8082 $\pm$ 0.095	0.7725 $\pm$ 0.048
	min.–max.	12.6–17.0	0.7013–0.8361	0.6175–0.7740	0.6885–0.8983	0.7044–0.8154

Table 6. Metric characters and index for M1 sup.

M1 sup.		MAXL	WANT	WPOST	WCON	LANT	LPA	LPOST	LME
	n	58	60	62	62	53	61	62	53
<i>U. arctos</i> (Balkan)	mean $\pm$ S.D.	21.06 $\pm$ 1.009	14.33 $\pm$ 0.722	15.58 $\pm$ 0.750	14.23 $\pm$ 0.624	10.04 $\pm$ 0.525	8.20 $\pm$ 0.484	10.35 $\pm$ 0.563	8.50 $\pm$ 0.518
	min.–max.	19.2–23.7	12.4–15.6	13.9–17.5	12.5–15.7	9.1–11.3	7.0–9.3	9.1–11.6	7.2–9.5
<i>U. arctos</i> (Siberia)	n	20	23	24	24	24	24	24	24
	mean $\pm$ S.D.	22.31 $\pm$ 1.330	15.83 $\pm$ 0.930	16.64 $\pm$ 1.162	15.69 $\pm$ 1.029	10.66 $\pm$ 0.937	8.47 $\pm$ 0.886	10.74 $\pm$ 0.830	8.46 $\pm$ 0.857
	min.–max.	20.2–24.9	14.3–17.7	14.6–18.7	13.9–17.3	8.8–12.5	6.9–10.5	9.4–12.7	6.5–9.9
<i>U. arctos</i> (Tibet)	n	10	9	12	12	11	11	12	12
	mean $\pm$ S.D.	23.54 $\pm$ 1.107	16.97 $\pm$ 0.805	17.91 $\pm$ 0.942	16.90 $\pm$ 1.067	11.18 $\pm$ 0.533	8.49 $\pm$ 0.481	11.59 $\pm$ 0.427	8.61 $\pm$ 0.370
	min.–max.	22.2–24.9	16.2–18.2	16.5–19.3	15.4–18.2	10.5–12.0	7.9–9.2	11.2–12.2	8.0–9.2
<i>U. arctos</i> (Kamchatka)	n	22	21	22	21	22	22	22	20
	mean $\pm$ S.D.	23.16 $\pm$ 1.307	16.87 $\pm$ 1.176	17.30 $\pm$ 1.125	16.44 $\pm$ 0.936	11.24 $\pm$ 0.776	9.09 $\pm$ 0.618	11.25 $\pm$ 1.063	8.78 $\pm$ 0.770
	min.–max.	21.7–26.1	14.8–14.8	15.1–19.4	14.8–18.2	9.8–13.0	8.1–10.7	10.2–13.7	7.7–10.7
<i>U. arctos</i> (all specimens)	n	113	118	125	124	114	123	124	114
	mean $\pm$ S.D.	21.91 $\pm$ 1.503	15.29 $\pm$ 1.439	16.35 $\pm$ 1.275	15.15 $\pm$ 1.347	10.52 $\pm$ 0.843	8.40 $\pm$ 0.709	10.70 $\pm$ 0.839	8.52 $\pm$ 0.655
	min.–max.	19.2–26.1	12.4–19.0	13.9–19.4	12.5–18.2	8.8–13.0	6.9–10.7	9.1–13.7	6.5–10.7
	variance	2.2581	2.0710	1.6259	1.8134	0.7103	0.5032	0.7037	0.4293
	skewness	0.5087	0.4385	0.5009	0.5123	0.3536	0.4523	0.9722	0.1341
	kurtosis	–0.0965	–0.3374	–0.5021	–0.6219	0.0316	0.5428	1.5168	0.9725
<i>U. deningeri</i> (C 718)	n	15	17	19	17	14	18	19	19
	mean $\pm$ S.D.	25.27 $\pm$ 1.794	17.69 $\pm$ 1.244	18.41 $\pm$ 1.551	16.89 $\pm$ 1.176	12.08 $\pm$ 0.733	10.11 $\pm$ 0.718	12.69 $\pm$ 1.159	9.53 $\pm$ 0.779
	min.–max.	22.1–28.7	15.7–19.8	15.9–21.2	14.9–18.6	10.8–13.1	9.1–11.2	11.0–15.2	7.8–10.9
<i>U. deningeri</i> (Koněprusy Caves)	n	22	23	23	23	22	22	23	24
	mean $\pm$ S.D.	25.88 $\pm$ 1.827	17.70 $\pm$ 1.037	18.18 $\pm$ 0.980	16.81 $\pm$ 1.037	12.41 $\pm$ 1.201	10.06 $\pm$ 0.684	12.25 $\pm$ 1.073	9.08 $\pm$ 0.577
	min.–max.	22.6–28.8	15.0–19.5	16.1–20.0	14.2–19.1	10.5–16.5	8.7–11.7	9.8–14.5	8.2–10.2
<i>U. deningeri</i> (Kozi Grzbiet)	n	9	9	11	10	9	9	10	11
	mean $\pm$ S.D.	25.33 $\pm$ 1.502	17.80 $\pm$ 0.986	18.49 $\pm$ 1.188	17.22 $\pm$ 1.046	11.76 $\pm$ 0.967	9.37 $\pm$ 0.517	12.51 $\pm$ 1.156	9.26 $\pm$ 0.535
	min.–max.	22.7–27.3	15.8–18.9	16.2–19.8	15.3–18.9	10.5–13.0	8.8–10.3	9.8–13.6	8.3–10.0
<i>U. deningeri</i> (all specimens)	n	46	49	53	50	45	49	52	54
	mean $\pm$ S.D.	25.57 $\pm$ 1.746	17.71 $\pm$ 1.083	18.33 $\pm$ 1.236	16.92 $\pm$ 1.077	12.18 $\pm$ 1.041	9.95 $\pm$ 0.714	12.46 $\pm$ 1.117	9.27 $\pm$ 0.667
	min.–max.	22.1–28.8	15.0–19.8	15.9–21.2	14.2–19.1	10.5–16.5	8.7–11.7	9.8–15.2	7.8–10.9
	variance	3.0495	1.1725	1.5278	1.1596	1.0833	0.5105	1.2471	0.4446
	skewness	0.1908	–0.3212	0.2542	–0.3349	1.4504	0.2508	0.0425	0.0644
	kurtosis	–0.5982	–0.2853	–0.1794	–0.0382	5.7166	–0.6313	0.2303	–0.2045
Kövesvárad, sp. A	n	1	4	1	2	4	5	2	2
	mean $\pm$ S.D.	26.30	18.63 $\pm$ 1.297	17.80	16.5 $\pm$ 0.141	12.88 $\pm$ 0.591	10.24 $\pm$ 0.230	12.75 $\pm$ 0.778	9.3 $\pm$ 0.283
	min.–max.	–	17.2–20.0		16.4–16.6	12.3–13.7	9.9–10.5	12.2–13.3	9.1–9.5
Chlum, sp. A	n	5	5	5	5	5	5	5	5
	mean $\pm$ S.D.	24.16 $\pm$ 0.856	16.78 $\pm$ 1.119	17.20 $\pm$ 0.557	15.90 $\pm$ 0.579	11.76 $\pm$ 0.434	9.26 $\pm$ 0.716	12.26 $\pm$ 0.730	8.98 $\pm$ 0.811
	min.–max.	23.3–25.4	15.8–18.0	16.4–17.7	15.1–16.5	11.2–12.2	8.0–9.7	11.5–13.0	8.1–9.7
Gombasek	n	3	4	4	4	3	2	4	3
	mean $\pm$ S.D.	24.27 $\pm$ 1.350	17.83 $\pm$ 1.778	18.60 $\pm$ 1.715	17.20 $\pm$ 1.568	11.23 $\pm$ 0.737	9.35 $\pm$ 0.354	12.58 $\pm$ 1.473	9.27 $\pm$ 0.058
	min.–max.	22.9–25.6	15.8–20.1	17.0–21.0	15.7–19.4	10.4–11.8	9.1–9.6	11.3–14.7	9.2–9.3
Süßenborn	n = 1	–	18.6	18.1	17.6	–	–	13.5	10.2
Eberbach	n = 1	27.3	19	19.9	17.8	13	10	13.7	9.7

Table 6. continued

M1 sup.		IND1	WCON/MAXL	WANT/MAXL	WPOST/MAXL	LME/MAXL	LPA/MAXL	WANT/WPOST
	n	49	58	56	58	52	57	60
<i>U. arctos</i> (Balkan)	mean $\pm$ S.D.	0.9939 $\pm$ 0.059	0.6769 $\pm$ 0.027	0.684 $\pm$ 0.026	0.7416 $\pm$ 0.027	0.4027 $\pm$ 0.019	0.3889 $\pm$ 0.020	0.9219 $\pm$ 0.021
	min.–max.	0.8716–1.1870	0.6188–0.7500	0.6139–0.7371	0.6887–0.8073	0.3621–0.4450	0.3468–0.4198	0.8699–0.9733
	n	23	20	19	20	20	20	23
<i>U. arctos</i> (Siberia)	mean $\pm$ S.D.	1.0131 $\pm$ 0.069	0.6955 $\pm$ 0.023	0.7006 $\pm$ 0.023	0.7338 $\pm$ 0.026	0.3758 $\pm$ 0.026	0.3757 $\pm$ 0.029	0.9514 $\pm$ 0.024
	min.–max.	0.9331–1.1871	0.6596–0.7324	0.6667–0.7463	0.6851–0.7700	0.3218–0.4195	0.3364–0.4449	0.9066–0.9876
	n	10	10	9	10	10	10	9
<i>U. arctos</i> (Tibet)	mean $\pm$ S.D.	1.1003 $\pm$ 0.226	0.7100 $\pm$ 0.034	0.7181 $\pm$ 0.018	0.7547 $\pm$ 0.027	0.3677 $\pm$ 0.011	0.3617 $\pm$ 0.018	0.9579 $\pm$ 0.019
	min.–max.	1.0027–1.7392	0.6707–0.7753	0.6911–0.7417	0.7202–0.8042	0.3496–0.3833	0.3293–0.3886	0.9223–0.9879
	n	20	21	21	22	20	22	21
<i>U. arctos</i> (Kamchatka)	mean $\pm$ S.D.	1.0231 $\pm$ 0.057	0.7143 $\pm$ 0.026	0.7328 $\pm$ 0.034	0.7475 $\pm$ 0.034	0.3837 $\pm$ 0.025	0.3927 $\pm$ 0.018	0.9776 $\pm$ 0.018
	min.–max.	0.9249–1.1673	0.6790–0.7778	0.6820–0.8089	0.6927–0.8178	0.3407–0.4229	0.3600–0.4229	0.9415–1.0165
	n	105	112	108	113	105	112	118
<i>U. arctos</i> (all specimens)	mean $\pm$ S.D.	1.0132 $\pm$ 0.093	0.6900 $\pm$ 0.031	0.6991 $\pm$ 0.034	0.7433 $\pm$ 0.029	0.3897 $\pm$ 0.025	0.3837 $\pm$ 0.024	0.9386 $\pm$ 0.033
	min.–max.	0.8716–1.7392	0.6188–0.7778	0.6139–0.8089	0.6851–0.8178	0.3218–0.4450	0.3261–0.4449	0.8442–1.0165
	variance	0.0086	0.0010	0.0011	0.0008	0.0006	0.0006	0.0011
	skewness	4.8531	0.3585	0.4378	0.1509	–0.2091	–0.1996	–0.1582
	kurtosis	36.0866	0.2096	1.1913	–0.3242	–0.3853	–0.4061	–0.1455
	n	14	13	15	15	15	14	17
<i>U. deningeri</i> (C 718)	mean $\pm$ S.D.	1.0875 $\pm$ 0.062	0.6643 $\pm$ 0.026	0.6937 $\pm$ 0.027	0.7203 $\pm$ 0.028	0.3747 $\pm$ 0.024	0.3947 $\pm$ 0.017	0.9672 $\pm$ 0.036
	min.–max.	0.9900–1.22349	0.6287–0.7149	0.6507–0.7550	0.6793–0.7738	0.3333–0.4208	0.3668–0.4173	0.9183–1.0455
	n	21	21	21	21	22	22	23
<i>U. deningeri</i> (Koněprusy Caves)	mean $\pm$ S.D.	1.1154 $\pm$ 0.064	0.6564 $\pm$ 0.033	0.6897 $\pm$ 0.022	0.7083 $\pm$ 0.027	0.3520 $\pm$ 0.010	0.3891 $\pm$ 0.014	0.9737 $\pm$ 0.026
	min.–max.	0.9627–1.2087	0.6028–0.7236	0.6585–0.7439	0.6617–0.7520	0.3358–0.3664	0.3681–0.4149	0.9317–1.0284
	n	8	8	8	9	9	8	9
<i>U. deningeri</i> (Kozi Grzbiet)	mean $\pm$ S.D.	1.0942 $\pm$ 0.065	0.6770 $\pm$ 0.033	0.7016 $\pm$ 0.024	0.7254 $\pm$ 0.037	0.3621 $\pm$ 0.023	0.3699 $\pm$ 0.024	0.9724 $\pm$ 0.043
	min.–max.	1.0261–1.2114	0.6374–0.7470	0.6520–0.7391	0.6642–0.7826	0.3208–0.3906	0.3396–0.4053	0.9175–1.0625
	n	43	42	44	45	46	44	49
<i>U. deningeri</i> (all specimens)	mean $\pm$ S.D.	1.1024 $\pm$ 0.063	0.6627 $\pm$ 0.031	0.6933 $\pm$ 0.024	0.7157 $\pm$ 0.030	0.3614 $\pm$ 0.021	0.3874 $\pm$ 0.019	0.9712 $\pm$ 0.033
	min.–max.	0.9627–1.2349	0.6028–0.7470	0.6507–0.7550	0.6617–0.7826	0.3208–0.4208	0.3396–0.4173	0.9175–1.0625
	variance	0.0040	0.0010	0.0006	0.0009	0.0004	0.0004	0.0011
	skewness	0.0148	0.5485	0.5131	0.1965	0.7645	–0.5367	0.6198
	kurtosis	–0.3701	0.2958	0.0230	–0.5869	0.6498	0.0187	0.2892
	n	1	1	1	1	1	1	1
Kövesvárad, sp. A	mean $\pm$ S.D.	1.1244	0.6312	0.6806	0.6768	0.3612	0.3878	1.0056
	min.–max.	–	–	–	–	–	–	–
	n	5	5	5	5	5	5	5
Chlum, sp. A	mean $\pm$ S.D.	1.0766 $\pm$ 0.067	0.6583 $\pm$ 0.019	0.6941 $\pm$ 0.028	0.7121 $\pm$ 0.016	0.3712 $\pm$ 0.023	0.3832 $\pm$ 0.026	0.9751 $\pm$ 0.044
	min.–max.	0.9791–1.1627	0.6292–0.6766	0.6583–0.7317	0.6969–0.7362	0.3447–0.3917	0.3404–0.4077	0.9249–1.0169
	n	2	3	3	3	3	2	4
Gombasek	mean $\pm$ S.D.	1.0652 $\pm$ 0.003	0.6790 $\pm$ 0.013	0.7035 $\pm$ 0.033	0.7339 $\pm$ 0.010	0.3827 $\pm$ 0.022	0.3862 $\pm$ 0.016	0.9582 $\pm$ 0.034
	min.–max.	1.0632–1.0672	0.6641–0.6872	0.6797–0.7407	0.7227–0.7424	0.3633–0.4061	0.3750–0.3974	0.9294–1.0056
Süßenborn	n = 1	–	–	–	–	–	–	1.027624309
Eberbach	n = 1	1.0864	0.6520	0.6960	0.7289	0.3553	0.3663	0.9548

Table 7. Metric characters and index for M2 sup.

M2 sup.		MAXL	WANT	WPOS	WCON	BLTR	LLTR	BLTA	LPA	LPAC
	n	58	59	60	59	54	40	53	36	47
<i>U. arctos</i> (Balkan)	mean $\pm$ S.D.	31.68 $\pm$ 2.011	16.57 $\pm$ 0.903	16.76 $\pm$ 0.829	16.51 $\pm$ 0.839	20.2 $\pm$ 1.474	14.83 $\pm$ 1.534	13.08 $\pm$ 1.805	6.79 $\pm$ 1.279	10.13 $\pm$ 0.501
	min.–max.	26.6–36.0	14.9–18.6	14.7–19.6	14.6–19.2	16.1–22.6	12.3–19.5	9.0–17.6	4.6–9.5	9.0–11.4
	n	24	26	26	26	26	25	21	24	26
<i>U. arctos</i> (Siberia)	mean $\pm$ S.D.	34.23 $\pm$ 2.006	18.22 $\pm$ 1.267	17.74 $\pm$ 1.574	17.38 $\pm$ 1.601	21.03 $\pm$ 1.403	15.98 $\pm$ 0.737	13.41 $\pm$ 1.738	6.58 $\pm$ 1.042	10.66 $\pm$ 1.150
	min.–max.	31.3–37.9	15.7–21.1	14.9–21.8	14.7–21.0	17.1–23.2	15.0–17.5	11.1–18.2	4.7–8.7	8.3–12.4
	n	11	12	12	12	12	5	8	6	12
<i>U. arctos</i> (Tibet)	mean $\pm$ S.D.	36.54 $\pm$ 2.448	19.6 $\pm$ 0.694	18.8 $\pm$ 0.536	18.14 $\pm$ 0.885	21.97 $\pm$ 1.141	16.5 $\pm$ 0.925	14.78 $\pm$ 1.556	7.98 $\pm$ 1.023	11.03 $\pm$ 0.541
	min.–max.	33.4–41.9	18.4–20.5	18.0–19.6	17.0–19.6	20.1–23.9	15.4–17.5	13.0–17.1	6.7–9.6	9.9–11.6
	n	16	22	22	22	21	22	18	20	20
<i>U. arctos</i> (Kamchatka)	mean $\pm$ S.D.	34.80 $\pm$ 2.326	19.48 $\pm$ 1.254	18.21 $\pm$ 0.948	18.12 $\pm$ 0.902	21.82 $\pm$ 1.710	16.70 $\pm$ 1.686	14.17 $\pm$ 1.508	7.24 $\pm$ 1.036	11.13 $\pm$ 1.031
	min.–max.	31.4–38.6	17.5–21.8	16.6–19.8	16.1–19.5	18.8–25.1	14.5–20.4	11.4–16.7	5.5–10.0	10.0–13.2
	n	112	124	125	124	116	95	105	88	107
<i>U. arctos</i> (all specimens)	mean $\pm$ S.D.	33.19 $\pm$ 2.665	17.79 $\pm$ 1.669	17.49 $\pm$ 1.305	17.18 $\pm$ 1.304	20.85 $\pm$ 1.615	15.64 $\pm$ 1.568	13.55 $\pm$ 1.767	7.02 $\pm$ 1.342	10.56 $\pm$ 0.907
	min.–max.	26.6–41.9	14.9–21.8	14.7–21.8	14.6–21.0	16.1–25.1	12.3–20.4	9.0–18.2	4.6–11.3	8.3–13.2
	variance	7.1023	2.7866	1.7037	1.7014	2.6093	2.4584	3.1237	1.8022	0.8227
	skewness	0.2602	0.4013	0.7278	0.5925	–0.3205	0.6659	0.0139	0.7746	0.4242
	kurtosis	0.3518	–0.7997	0.6664	–0.0153	0.6551	0.4709	0.1440	1.0668	0.8640
	n	23	24	24	21	23	21	23	19	22
<i>U. deningeri</i> (C 718)	mean $\pm$ S.D.	40.67 $\pm$ 2.965	20.65 $\pm$ 1.708	20.72 $\pm$ 1.556	20.16 $\pm$ 1.415	23.87 $\pm$ 2.355	17.60 $\pm$ 1.359	17.67 $\pm$ 2.037	9.21 $\pm$ 1.491	12.07 $\pm$ 1.376
	min.–max.	34.9–45.8	17.1–24.2	17.2–23.3	16.9–23.2	20.1–27.8	14.1–20.2	15.1–20.7	6.8–11.8	9.9–14.1
	n	25	25	25	25	25	25	25	18	20
<i>U. deningeri</i> (Koněprusy Caves)	mean $\pm$ S.D.	41.90 $\pm$ 3.411	20.42 $\pm$ 1.286	20.37 $\pm$ 1.283	19.70 $\pm$ 1.262	24.37 $\pm$ 1.954	17.54 $\pm$ 1.661	18.43 $\pm$ 2.154	9.05 $\pm$ 1.413	12.28 $\pm$ 1.182
	min.–max.	37.7–50.1	18.7–23.5	18.7–23.4	18.1–22.4	21.4–27.6	15.9–23.3	14.1–22.7	7.1–12.1	10.9–15.6
	n	4	7	5	6	7	7	5	5	6
<i>U. deningeri</i> (Kozi Grzbiet)	mean $\pm$ S.D.	39.63 $\pm$ 1.087	21.46 $\pm$ 1.448	20.70 $\pm$ 0.984	20.87 $\pm$ 1.537	23.11 $\pm$ 1.027	17.49 $\pm$ 1.064	17.90 $\pm$ 2.102	9.52 $\pm$ 1.013	12.30 $\pm$ 0.498
	min.–max.	38.5–41.1	19.4–23.3	19.8–22.0	19.2–23.4	21.9–24.7	15.7–18.6	15.6–19.6	8.3–10.6	11.6–12.8
	n	52	56	54	52	55	53	53	42	48
<i>U. deningeri</i> (all specimens)	mean $\pm$ S.D.	41.18 $\pm$ 3.146	20.64 $\pm$ 1.509	20.55 $\pm$ 1.374	20.02 $\pm$ 1.382	24.00 $\pm$ 2.061	17.56 $\pm$ 1.455	18.05 $\pm$ 2.091	9.18 $\pm$ 1.388	12.19 $\pm$ 1.204
	min.–max.	34.9–50.1	17.1–24.2	17.2–23.4	16.9–23.4	20.1–27.8	14.1–23.3	14.1–22.7	6.8–12.1	9.9–15.6
	variance	9.8982	2.2785	1.8871	1.9092	4.2463	2.1156	4.3718	1.9253	1.4485
	skewness	0.6994	0.2770	0.2035	0.4160	0.1441	1.0102	0.1351	0.2775	0.1612
	kurtosis	0.4716	0.0507	–0.1257	0.0157	–0.8159	3.8005	–0.9849	–0.7178	0.2169
	n	2	2	3	1	2	3	3	2	2
<i>Kövesvárad, sp. A</i>	mean $\pm$ S.D.	39.5 $\pm$ 2.404	20.95 $\pm$ 1.202	20.07 $\pm$ 0.404	20.00	23.00 $\pm$ 1.556	16.83 $\pm$ 1.724	18.17 $\pm$ 3.535	8.75 $\pm$ 0.354	12.7 $\pm$ 0.141
	min.–max.	37.8–41.2	20.1–21.8	19.7–20.5	–	21.9–24.1	15.3–18.7	14.1–20.5	8.5–9.0	12.6–12.8
	n	9	10	10	10	11	7	9	7	9
<i>Chlum, sp. A</i>	mean $\pm$ S.D.	41.48 $\pm$ 3.317	20.66 $\pm$ 1.166	20.08 $\pm$ 1.143	19.69 $\pm$ 1.322	25.17 $\pm$ 1.613	17.36 $\pm$ 1.207	16.68 $\pm$ 2.268	10.46 $\pm$ 1.047	12.66 $\pm$ 1.146
	min.–max.	36.3–47.0	18.8–22.1	18.3–22.1	18.2–22.3	22.4–28.7	15.7–19.0	11.5–19.0	8.8–11.7	10.2–13.9
	n	6	5	6	6	4	5	3	3	4
<i>Gombasek</i>	mean $\pm$ S.D.	39.62 $\pm$ 2.372	20.38 $\pm$ 1.186	20.45 $\pm$ 0.756	19.83 $\pm$ 0.929	23.68 $\pm$ 1.377	16.88 $\pm$ 0.983	16.03 $\pm$ 1.102	9.73 $\pm$ 1.115	11.4 $\pm$ 1.329
	min.–max.	37.6–43.4	19.1–22.3	19.5–21.3	18.6–21.1	22.5–25.6	15.4–18.0	15.3–17.3	8.9–11.0	9.7–12.6
<i>Süßenborn</i>	n = 1	47.0	23.2	21.6	21.7	26.5	21.9	20.4	11.0	13.5
<i>Sackdilling</i>	n = 1	33.7	16.8	16.3	15.8	21.0	14.3	13.9	9.4	9.4

Table 7. continued

M2 sup.		LME	LMEC	LLTR/MAXL	BLTA/MAXL	WANT/MAXL	WCON/MAXL	LPA/LPAC	LPAC/BLTR
<i>U. arctos</i> (Balkan)	n	33	53	36	51	57	57	36	46
	mean $\pm$ S.D.	6.44 $\pm$ 1.281	9.22 $\pm$ 1.156	0.4624 $\pm$ 0.041	0.6464 $\pm$ 0.107	0.5230 $\pm$ 0.024	0.5217 $\pm$ 0.027	0.6731 $\pm$ 0.130	0.5016 $\pm$ 0.031
	min.–max.	4.1–9.6	6.4–11.5	0.4066–0.5873	0.4455–0.8820	0.4841–0.5924	0.4792–0.5828	0.4646–0.9223	0.4505–0.5789
<i>U. arctos</i> (Siberia)	n	22	26	23	18	24	24	24	26
	mean $\pm$ S.D.	7.1 $\pm$ 1.731	9.39 $\pm$ 1.058	0.4675 $\pm$ 0.016	0.6584 $\pm$ 0.105	0.5263 $\pm$ 0.022	0.4991 $\pm$ 0.025	0.6253 $\pm$ 0.113	0.5064 $\pm$ 0.039
	min.–max.	4.6–10.5	6.2–11.3	0.4417–0.5032	0.5045–0.8922	0.4876–0.5617	0.4537–0.5399	0.4957–0.9286	0.4333–0.5882
<i>U. arctos</i> (Tibet)	n	5	12	1	7	11	11	6	12
	mean $\pm$ S.D.	7.96 $\pm$ 1.146	10.27 $\pm$ 0.904	0.4715	0.6784 $\pm$ 0.043	0.5374 $\pm$ 0.022	0.4957 $\pm$ 0.021	0.7316 $\pm$ 0.104	0.5023 $\pm$ 0.020
	min.–max.	6.4–9.1	8.7–11.3	–	0.6268–0.7600	0.4893–0.5552	0.4582–0.5255	0.5982–0.8276	0.4737–0.5373
<i>U. arctos</i> (Kamchatka)	n	12	21	16	17	16	16	19	19
	mean $\pm$ S.D.	5.56 $\pm$ 0.875	9.54 $\pm$ 1.193	0.4749 $\pm$ 0.031	0.6654 $\pm$ 0.091	0.5483 $\pm$ 0.029	0.5126 $\pm$ 0.030	0.6546 $\pm$ 0.112	0.5146 $\pm$ 0.035
	min.–max.	4.4–6.9	7.3–12.2	0.3984–0.5285	0.5135–0.8085	0.4960–0.5891	0.4644–0.5580	0.5288–0.9174	0.4425–0.5796
<i>U. arctos</i> (all specimens)	n	75	117	79	96	111	111	87	105
	mean $\pm$ S.D.	6.69 $\pm$ 1.533	9.47 $\pm$ 1.61	0.4654 $\pm$ 0.033	0.6571 $\pm$ 0.099	0.5280 $\pm$ 0.026	0.5117 $\pm$ 0.028	0.6674 $\pm$ 0.130	0.5067 $\pm$ 0.034
	min.–max.	4.1–10.5	6.2–12.2	0.3984–0.587	0.4455–0.8922	0.4809–0.5924	0.4537–0.5828	0.4646–1.0000	0.4333–0.5947
	variance	2.3498	1.3468	0.0011	0.0099	0.0007	0.0008	0.0170	0.0012
	skewness	0.5300	–0.4869	0.7482	0.4410	0.3978	0.1548	0.7080	0.2800
	kurtosis	–0.4186	0.3555	1.8651	–0.1997	–0.3132	–0.6517	–0.4059	–0.3144
<i>U. deningeri</i> (C 718)	n	17	23	19	22	22	19	18	20
	mean $\pm$ S.D.	7.56 $\pm$ 1.090	10.68 $\pm$ 1.502	0.4343 $\pm$ 0.030	0.7568 $\pm$ 0.129	0.5069 $\pm$ 0.027	0.4901 $\pm$ 0.030	0.7612 $\pm$ 0.103	0.4995 $\pm$ 0.036
	min.–max.	6.3–9.8	8.1–13.2	0.3978–0.5101	0.5612–1.0249	0.4719–0.5945	0.4562–0.5863	0.6071–1.0000	0.4267–0.5702
<i>U. deningeri</i> (Koněprusy Caves)	n	17	25	25	25	25	25	16	20
	mean $\pm$ S.D.	7.75 $\pm$ 1.67	11.15 $\pm$ 1.301	0.4189 $\pm$ 0.025	0.7593 $\pm$ 0.095	0.4881 $\pm$ 0.018	0.4711 $\pm$ 0.020	0.7310 $\pm$ 0.0113	0.4958 $\pm$ 0.031
	min.–max.	6.0–9.7	9.1–14.2	0.3759–0.4765	0.5975–0.9422	0.4591–0.5273	0.4393–0.5117	0.5641–0.8897	0.4466–0.5673
<i>U. deningeri</i> (Kozi Grzbiet)	n	8	8	4	4	4	4	5	6
	mean $\pm$ S.D.	7.48 $\pm$ 0.932	9.79 $\pm$ 1.164	0.4374 $\pm$ 0.043	0.7645 $\pm$ 0.143	0.5155 $\pm$ 0.031	0.5038 $\pm$ 0.019	0.7806 $\pm$ 0.080	0.5279 $\pm$ 0.020
	min.–max.	5.8–8.8	8.7–11.6	0.3820–0.4733	0.6316–0.8950	0.4720–0.5455	0.4848–0.5247	0.6850–0.8618	0.4917–0.5455
<i>U. deningeri</i> (all specimens)	n	42	56	48	51	51	48	39	46
	mean $\pm$ S.D.	7.62 $\pm$ 1.075	10.76 $\pm$ 1.422	0.4265 $\pm$ 0.029	0.7586 $\pm$ 0.112	0.4984 $\pm$ 0.025	0.4813 $\pm$ 0.026	0.7513 $\pm$ 0.104	0.5016 $\pm$ 0.033
	min.–max.	5.8–9.8	8.1–14.2	0.3759–0.5101	0.5612–1.0249	0.4591–0.5945	0.4393–0.5863	0.5641–1.0000	0.4267–0.5702
	variance	1.1554	2.0221	0.0009	0.0125	0.0006	0.0007	0.0108	0.0010
	skewness	0.3795	0.1751	0.7585	0.4681	1.2902	1.4775	0.0553	0.1101
	kurtosis	–0.8047	–0.4438	0.7720	–0.2858	3.2586	4.1541	–0.5917	–0.5006
Kövesvárad, sp. A	n	3	3	2	2	1	1	2	1
	mean $\pm$ S.D.	7.47 $\pm$ 1.815	9.5 $\pm$ 1.572	0.4026 $\pm$ 0.003	0.7469 $\pm$ 0.229	0.4879	0.4854	0.6892 $\pm$ 0.036	0.5845
	min.–max.	5.4–8.8	8.4–11.3	0.4005–0.4048	0.5851–0.9087	–	–	0.6641–0.7143	–
Chlum, sp. A	n	7	11	7	9	8	8	7	9
	mean $\pm$ S.D.	6.50 $\pm$ 1.086	11.78 $\pm$ 0.961	0.4307 $\pm$ 0.017	0.6498 $\pm$ 0.076	0.5116 $\pm$ 0.026	0.4832 $\pm$ 0.023	0.8443 $\pm$ 0.028	0.4935 $\pm$ 0.031
	min.–max.	4.8–8.1	10.6–13.6	0.3961–0.4465	0.4852–0.7460	0.4679–0.5537	0.4463–0.5110	0.8120–0.8855	0.4304–0.5370
Gombasek	n	0	4	5	3	5	6	3	3
	mean $\pm$ S.D.	–	10.88 $\pm$ 0.685	0.435 $\pm$ 0.031	0.6957 $\pm$ 0.031	0.5183 $\pm$ 0.011	0.5010 $\pm$ 0.010	0.8912 $\pm$ 0.124	0.4682 $\pm$ 0.039
	min.–max.	–	10.5–11.9	0.3821–0.4654	0.6681–0.7300	0.5080–0.5319	0.4862–0.5159	0.7561–1.0000	0.4236–0.4922
Süßenborn	n = 1	–	11.3	0.4660	0.7698	0.4936	0.4617	0.8148	0.5094
Sackdilling	n = 1	5.7	10.8			0.4985	0.4688	1.0000	0.4476

Table 8. continued

	m2 inf										m3 inf																				
	I					II					III					IV					I					II					
	0	1	2	3	4	0	1	2	0	1	2	3	0	1	2	3	4	0	1	2	0	1	2	0	1	2	3				
U. aretos (Balkan)	n	36					37					35					33					21					22				
	%	3	31	17	43	6	73	11	16	74	17	9	0	27	18	45	0	9	100	0	0	100	0	0	55	45	0	0			
U. aretos (Siberia)	n	17					17					15					16					10					10				
	%	12	29	12	41	6	82	6	12	27	20	40	13	44	25	31	0	0	100	0	0	100	0	0	70	20	10	0			
U. aretos (Tibet)	n	12					12					10					11					12					11				
	%	17	8	0	75	0	100	0	0	60	10	30	0	55	18	18	9	0	100	0	0	100	0	0	91	0	9	0			
U. aretos (Kamchatka)	n	23					22					22					17					12					12				
	%	26	30	0	44	0	95	0	5	59	9	18	14	24	17	59	0	0	92	8	0	92	8	0	92	8	0	0			
U. aretos (all specimens)	n	93					93					85					82					60					60				
	%	14	27	9	47	3	83	5	12	58	14	22	6	37	18	40	1	4	98	2	0	98	2	0	74	23	3	0			
U. deningeri (C 718)	n	17					17					11					12					15					15				
	%	0	6	18	53	25	59	12	29	27	0	18	55	8	8	25	25	34	33	20	47	20	47	20	47	20	13				
U. deningeri (Koneprusy Caves)	n	15					16					13					15					21					20				
	%	7	0	7	40	48	75	6	19	23	8	38	31	0	0	33	27	40	48	33	19	10	30	40	20						
U. deningeri (Kozí Grzbiet)	n	7					10					8					9					8					6				
	%	0	0	14	72	14	90	0	10	25	0	75	0	33	0	0	45	22	63	12	25	0	17	33	50						
U. deningeri (all specimens)	n	39					43					32					46					44					41				
	%	3	3	12	51	31	72	7	21	25	3	41	31	11	3	22	31	33	45	25	30	12	34	32	22						
Kövesvárad, sp. A	n	0	0	1	0	3	3	0	1	0	0	5	1	0	0	2	2	0	3	2	0	2	2	1	0						
Kövesvárad, sp. B	n	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	0	0	0	1	0	0						
Chlum, sp. A	n	1	2	5	6	1	8	0	3	2	0	1	0	1	0	3	0	1	4	1	2	4	1	1	2						
Chlum, sp. B	n	0	0	0	1	0	0	0	1	1	0	0	0	0	0	1	0	0	–	–	–	–	–	–	–						
Gombasek	n	0	0	0	6	3	5	3	1	2	2	1	0	1	1	3	0	0	1	0	0	2	2	0	3						
Süßenborn	n	0	1	0	2	2	5	0	0	1	1	1	0	0	0	2	1	1	–	–	–	–	–	–	–						
Eberbach	n	0	0	1	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	1	0	0	0						

Table 9. Morphotypes frequency in upper cheek teeth.

		P4 sup												M1 sup											
		I						II						I						II					
		0	1	2	3	4	0	1	2	3	4	0	1	2	3	0	1	2	3	4					
U. arctos (Balkan)	n	47						46						43						47					
	%	51	15	21	9	4	59	2	13	4	22	30	21	44	5	26	17	44	4	9					
U. arctos (Siberia)	n	21						21						20						20					
	%	81	14	5	0	0	38	5	42	5	10	40	15	30	15	70	10	20	0	0					
U. arctos (Tibet)	n	12						12						11						12					
	%	58	25	17	0	0	33	0	67	0	0	64	9	9	18	75	25	0	0	0					
U. arctos (Kamchatka)	n	21						18						20						20					
	%	81	0	19	0	0	83	11	6	0	0	55	10	15	20	40	25	30	5	0					
U. arctos (all specimens)	n	106						102						97						104					
	%	61	17	16	4	2	55	4	24	3	14	43	16	30	11	42	17	33	4	4					
U. deningeri (C 718)	n	8						6						17						17					
	%	0	13	25	25	37	67	0	33	0	0	35	0	12	53	6	0	18	24	52					
U. deningeri (Koněprusy Caves)	n	21						21						21						24					
	%	19	0	24	19	38	56	10	14	10	10	33	0	5	62	8	8	24	8	50					
U. deningeri (Kozí Grzbiet)	n	9						9						9						10					
	%	44	0	12	0	44	11	11	22	34	22	44	0	12	44	0	10	50	10	30					
U. deningeri (all specimens)	n	38						36						47						51					
	%	21	3	21	16	39	47	8	20	14	11	36	0	9	55	6	6	27	14	47					
Kövesvárad, sp. A	n	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1					
Kövesvárad, sp. B	n	0	0	1	0	0	0	0	0	1	0	–	–	–	–	–	–	–	–	–					
Chlum, sp. A	n	4	0	3	0	2	4	0	1	0	2	0	2	0	3	1	0	0	1	3					
Gombasek	n	0	0	1	2	1	2	0	1	0	0	0	0	0	2	0	0	0	1	4					
Stübenborn	n	–	–	–	–	–	–	–	–	–	–	0	0	0	0	0	0	0	0	1					
Eberbach	n	–	–	–	–	–	–	–	–	–	–	0	0	0	1	0	0	0	0	1					
Sackdilling	n	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–					

Table 9. continued

	M2 sup																		
	I					II					III					IV			
	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	4		
	40					35					44					41			
<i>U. arctos</i> (Balkan)	n	32	20	30	18	40	29	11	20	44	56	0	0	2	27	27	44	0	
	%	22					21					21					22		
<i>U. arctos</i> (Siberia)	n	37	27	18	18	19	43	9	29	33	43	14	10	27	23	27	23	0	
	%	12					9					12					10		
<i>U. arctos</i> (Tibet)	n	8	42	25	25	0	33	45	22	0	75	25	0	10	10	60	20	0	
	%	20					17					18					22		
<i>U. arctos</i> (Kamchatka)	n	0	19	43	38	53	35	12	0	28	61	11	0	0	27	23	50	0	
	%	100					85					90					100		
<i>U. arctos</i> (all specimens)	n	24	23	29	24	33	33	14	20	32	56	10	2	9	24	28	39	0	
	%	24					18					22					23		
<i>U. deningeri</i> (C 718)	n	4	13	25	58	6	11	22	61	5	23	27	45	31	17	9	39	4	
	%	25					24					25					22		
<i>U. deningeri</i> (Koněprusy Caves)	n	4	8	24	64	4	13	17	66	8	28	20	44	54	23	5	9	9	
	%	6					6					8					7		
<i>U. deningeri</i> (Kozí Grzbiet)	n	17	0	0	83	0	17	33	50	0	25	12	63	29	43	14	14	0	
	%	55					48					55					52		
<i>U. deningeri</i> (all specimens)	n	5	9	22	64	4	13	21	62	5	25	22	46	40	23	8	23	6	
	%	5					62					46					23		
Kövesvárad, sp. A	n	0	0	2	1	1	0	0	2	0	0	2	1	2	0	1	0	0	
	n	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
Kövesvárad, sp. B	n	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	n	1	0	1	7	1	0	2	4	3	2	1	1	2	1	0	4	0	
Chlum, sp. A	n	1	3	0	2	0	1	2	2	0	1	1	3	3	1	0	1	0	
Gombasek	n	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	
Stübenborn	n	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
Eberbach	n	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
Sackdilling	n	1	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	