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APPENDIX 1. Length of selected bones (in mm) and their ratios, rounded to one decimal place to avoid giving a false impression of the accuracy of this preliminary analysis. Abbreviations: hum, humerus; cmc, carpometacarpus; cor, coracoid; phal, phalanx proximalis digiti majoris. Extant specimen numbers are those of the osteological collection of the ISEA PAS. Classification of modern taxa follow Dickinson and Remsen (2013).

Taxon	Specimen number	Taxonomic group	Total length				Medial length	hum/ulna	hum/cmc	cmc/cor	cmc/phal
			HUM	ULNA	CMC	Phalanx	COR				
<i>Gracanicanetta happi</i> gen. et sp. nov.	ISEA AF/GRA1 LMK-Pal	Anatidae	67.99	59.76	39.12	17.63	36.7	1.1	1.7	1.1	2.2
<i>Lavanttalornis hassleri</i>	7453a+a'+b+c+d	Anatidae	75.5	69.5	46.4	19.6	42.4	1.1	1.6	1.1	2.4
<i>Dendrocygna bicolor</i>	5549	Dendrocygnae	97.8	102.18	51.69	22.13	43.35	1.0	1.9	1.2	2.3
<i>Dendrocygna autumnalis</i>	4386	Dendrocygnae	93.9	98.46	52.72	22	41.55	1.0	1.8	1.3	2.4
<i>Dendrocygna viduata</i>	5278	Dendrocygnae	89.76	92.92	50.37	20.46	37.72	1.0	1.8	1.3	2.5
<i>Dendrocygna eytoni</i>	4417	Dendrocygnae	93.29	96.99	52.71	21.57	40.16	1.0	1.8	1.3	2.4
<i>Dendrocygna arborea</i>	5033	Dendrocygnae	115.18	114.22	63.14	26.03	46.43	1.0	1.8	1.4	2.4
<i>Oxyura jamacensis</i>	4657	Oxyurinae	69.63	60.98	35.2	15.38	38.97	1.1	2.0	0.9	2.3
<i>Bucephala clangula</i>	5573	Mergini	83.19	71.43	49.76	21.07	52.92	1.2	1.7	0.9	2.4
<i>Bucephala islandica</i>	860	Mergini	81.13	71.04	48.63	19.02		1.1	1.7		2.6
<i>Clangula hyemalis</i>	6282	Mergini	73.57	66.71	46.7	20.19	46.59	1.1	1.6	1.0	2.3
<i>Lophodytes cucullatus</i>	5141	Mergini	60.91	49.24	37.17	15.32	37.82	1.2	1.6	1.0	2.4
<i>Melanitta fusca</i>	7525	Mergini	95.26	85.23	54.89	23.16	49.32	1.1	1.7	1.1	2.4
<i>Melanitta nigra</i>	2432	Mergini	96.71	88.22	55.81	22.69	46.22	1.1	1.7	1.2	2.5
<i>Mergellus albellus</i>	3440	Mergini	74.38	60.4	41.76	17.25	46.08	1.2	1.8	0.9	2.4
<i>Mergus merganser</i>	5638	Mergini	99.56	83.24	60.21	24.68	67.09	1.2	1.7	0.9	2.4
<i>Mergus serrator</i>	2163	Mergini	92.58	76.3	52.66	21.94	60.53	1.2	1.8	0.9	2.4
<i>Somateria mollissima</i>	4719	Mergini	114.02	100.21	68.81	27.91	63.18	1.1	1.7	1.1	2.5
<i>Alopochen aegyptiaca</i>	1397	Tadornini	142.91	135.17	82.25	33.63	64.96	1.1	1.7	1.3	2.4

<i>Chloephaga picta</i>	2262	Tadornini	146.07	144.92	84.08	35.29	63.03	1.0	1.7	1.3	2.4
<i>Tadorna ferruginea</i>	5671	Tadornini	113.92	109.65	69.74	29.29	51.15	1.0	1.6	1.4	2.4
<i>Tadorna tadorna</i>	6635	Tadornini	101.71	94.61	60.72	25.66	47.03	1.1	1.7	1.3	2.4
<i>Tadorna variegata</i>	3991	Tadornini	114.27	108.63	67.6	26.81	49.07	1.1	1.7	1.4	2.5
<i>Aythya ferrina</i>	6710	Aythiini	86.75	76.93	47.39	19.44	48.05	1.1	1.8	1.0	2.4
<i>Aythya fuligula</i>	8453	Aythiini	83.51	71.46	44.7	18.04	44.62	1.2	1.9	1.0	2.5
<i>Aythya marila</i>	2447	Aythiini	89.85	77.83	48.72	19.71	46.85	1.2	1.8	1.0	2.5
<i>Aythya collaris</i>	6467	Aythiini	74.31	65.35	41.62	17.19	44.14	1.1	1.8	0.9	2.4
<i>Netta rufina</i>	5230	Aythiini	96.77	84.27	53.04	22.48	47.72	1.1	1.8	1.1	2.4
<i>Amazonetta braziliensis</i>	5285	Anatini	65.38	57.99	39.18	14.65	34.83	1.1	1.7	1.1	2.7
<i>Anas bahamensis</i>	6672	Anatini	76.87	69.68	47.09	18.34	40.2	1.1	1.6	1.2	2.6
<i>Anas capensis</i>	3961	Anatini	71.62	63.88	42.28	15.84	37.26	1.1	1.7	1.1	2.7
<i>Anas crecca</i>	1728	Anatini	58.17	50.03	36.62	14.28	33.85	1.2	1.6	1.1	2.6
<i>Anas formosa</i>	5092	Anatini	62.53	53.65	37.96	14.98	35.52	1.2	1.6	1.1	2.5
<i>Anas gibberifrons</i>	4519	Anatini	68.71	61.33	44.15	17.65	36.77	1.1	1.6	1.2	2.5
<i>Anas platyrhynchos</i>	6638	Anatini	91.96	78.34	56.96	22.95	52.55	1.2	1.6	1.1	2.5
<i>Anas poecilorhyncha</i>	6137	Anatini	91.92	77.27	54.88	21.1	48.83	1.2	1.7	1.1	2.6
<i>Anas rubripes</i>	5457	Anatini	93.27	77.95	56.55	22.38	51.85	1.2	1.6	1.1	2.5
<i>Anas superciliosa</i>	4900	Anatini	98.8	84.43	60.14	23.76	53.06	1.2	1.6	1.1	2.5
<i>Malacorhynchus membranaceus</i>	4423	Anatini	64.72	59.17	38.8	16.27	31.8	1.1	1.7	1.2	2.4
<i>Mareca strepera</i>	1928	Anatini	83.82	71.76	51.98	21.48	42.98	1.2	1.6	1.2	2.4
<i>Mareca falcata</i>	3261	Anatini	77.26	65.16	47.05	19.25		1.2	1.6		2.4
<i>Mareca penelope</i>	3492	Anatini	80.77	68.13	50.9	21.13	42.59	1.2	1.6	1.2	2.4
<i>Mareca sibilatrix</i>	3819	Anatini	88.03	75.89	53.67	20.04	44.93	1.2	1.6	1.2	2.7
<i>Spatula clypeata</i>	7510	Anatini	69.36	60.8	43.3	17.82	36.57	1.1	1.6	1.2	2.4
<i>Spatula cyanoptera</i>	4387	Anatini	64.5	53.97	39.18	15.05	34.52	1.2	1.6	1.1	2.6
<i>Spatula discors</i>	3823	Anatini	60.43	51.61	36.72	14.79	33.38	1.2	1.6	1.1	2.5
<i>Spatula querquedula</i>	8637	Anatini	66.73	57.01	39.74	16	36.61	1.2	1.7	1.1	2.5
<i>Spatula rhynchotis</i>	4903	Anatini	79.18	67.93	49.07	20.29	44.81	1.2	1.6	1.1	2.4
<i>Aix galericulata</i>	8004	Incertae sedis	68.16	58.23	42.28	16.67	41.02	1.2	1.6	1.0	2.5
<i>Aix sponsa</i>	4724	Incertae sedis	70.73	56.91	45.62	17.88	42.12	1.2	1.6	1.1	2.6
<i>Biziura lobata</i>	5018	Incertae sedis	94.19	78.72	41.94	16.61	42.36	1.2	2.2	1.0	2.5

<i>Calonetta leucophrys</i>	4853	Incertae sedis	59.66	53.84	37.88	14.51	32.63	1.1	1.6	1.2	2.6
<i>Chenonetta jubata</i>	5478	Incertae sedis	88.43	80.38	54.4	22.06	47.67	1.1	1.6	1.1	2.5
<i>Nettapus auritus</i>	5663	Incertae sedis	53.7	48.31	30.96	12.75	28.74	1.1	1.7	1.1	2.4
<i>Nettapus coromandelianus</i>	6490	Incertae sedis	51.83	44.71	30.18	13.16	26.75	1.2	1.7	1.1	2.3
<i>Nettapus puchellus</i>	4521	Incertae sedis	59.25	51.2	34.52		31.7	1.2	1.7	1.1	
<i>Stictonetta naevosa</i>	4418	Incertae sedis	86.8	76.45	50.47	22.03	44.09	1.1	1.7	1.1	2.3