

Supplementary Table S1. Measurements (in mm) and indices of preserved *Pteroctopus tetracirrhus* examined. Abbreviations: ML, mantle length; TL, total length; TLI, total length index (ML as percentage of total length); MAI, mantle arm index (ML as percentage of longest arm), according with Roper and Voss (1983)*. RA1, right arm 1, etc.; LA1, left arm 1, etc. B, arm broken tip; R, arm regenerated.

Catalog number	ICMC 000112	ICMC 000016	ICMC 557/1991	ICMC 000111	ICMC 000053	ICMC 506/1991	ICMC 506/1991
Sex	Male	Male	Male	Male	Male	Male	Male
ML	56	65	67	78	84	88	96
TL	194	412	285	350	322	345	310
TLI	29	16	24	22	26	26	31
MAI	41	21	34	31	37	34	40
Arm length							
RA1	130	280	182	239	206	249	242
RA2	123	295	199	250	225	257	201
RA3	115	267	R	B	192	245	209
RA4	111	B	165	B	198	204	B
LA1	115	B	182	225	205	B	B
LA2	136	310	198	232	B	237	170 (R)
LA3	91	165	126	131	130	B	182
LA4	101	240	157	192	183	229	202

Supplementary Table S1. (cont.)

Catalog number	ICMC 000193	NHM-UK 20200243	ICMC 557/1991	ICMC 000341	ICMC 0018A-4-0	ICMC 91/2000	ICMC 000017
Sex	Female	Female	Female	Female	Female	Female	Female
ML	25	33	60	75	82	85	105
TL	63	110	276	325	421	353	415
TLI	40	30	22	23	19	24	25
MAI	76	41	27	27	24	36	33
Arm length							
RA1	33	81	R	278	323	233	314
RA2	30	B	222	232	336	230	B
RA3	31	73	R	251	B	218	271
RA4	29 (B)	77	R	265	B	228	265
LA1	27 (B)	75 (B)	200	253	312	210	310
LA2	29	78	205	253	B	216	R
LA3	23 (B)	71	184	244	280	223	272
LA4	29	71	186	245	273	214	B

*Roper, C.F.E., and Voss, G.L. (1983). Guidelines for taxonomic descriptions of cephalopod species. *Mem. Nat. Mus. Vict.* 44, 49-63.