

Supporting Information

Back-calculation of fish size in diet analysis of piscivorous predators: a new index for the alien *Silurus glanis*

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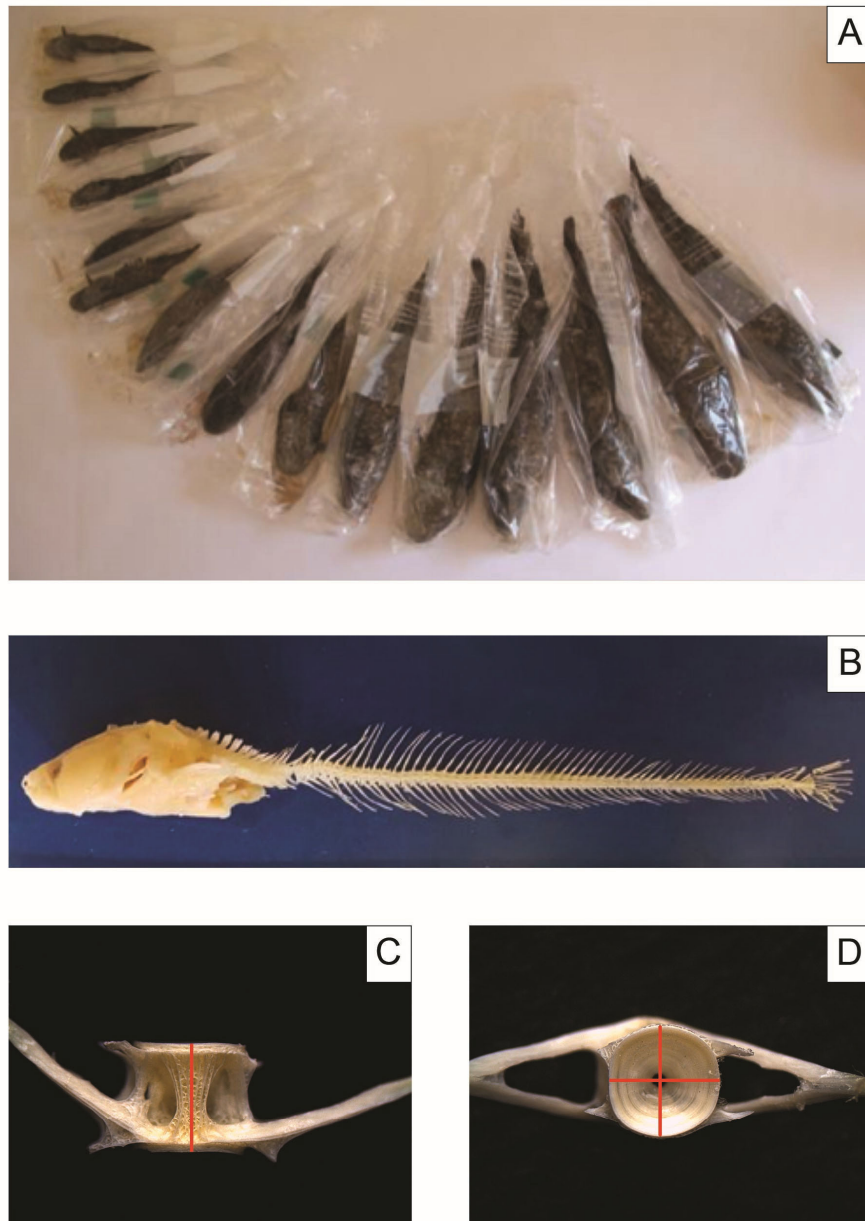


Figure S1. (A) Some of the *S. glanis* samples used for the morphometric characterization; (B) One *S. glanis* specimen during the cleaning procedure; (C-D) Measurements used for the K Index determination (C = length; D = diameters)

Table S1. Morphometric characterization of *S. glanis* samples

Sample	TW (g)	LT (mm)	LS (mm)	LPRP (mm)	DV-A (g)	LA (mm)	LIU (mm)	LD (mm)	DIOC (mm)	RP (mm)	RV (mm)
1	10	140	125	24	0.4	80	27	10	2.0	16	10
2	10	142	124	26	0.5	70	28	11	2.0	19	10
3	16	160	140	28	0.5	85	30	10	2.5	21	11
4	16	163	146	30	0.5	87	33	11	2.5	18	12
5	20	172	158	27	0.7	90	32	11	2.5	20	11
6	22	170	150	31	0.8	92	33	12	2.5	22	13
7	22	177	160	29	0.5	98	32	11	2.5	20	12
8	23	178	161	32	0.5	93	35	13	2.5	22	13
9	25	177	159	32	0.5	92	34	11	2.5	23	13
10	25	182	161	31	0.6	90	32	12	2.5	20	14
11	27	190	176	32	1.0	100	37	11	3.0	24	14
12	34	195	189	34	1.0	111	40	14	3.0	22	17
13	35	202	190	36	1.0	109	38	11	3.0	25	17
14	36	200	176	38	0.6	100	40	13	2.5	26	16
15	47	216	194	35	1.0	120	38	14	3.0	25	15
16	58	235	212	41	0.5	120	44	15	3.0	30	18
17	60	240	213	43	1.0	130	47	16	3.0	30	18
18	62	235	214	38	0.8	130	43	15	3.0	28	15
19	88	275	245	46	0.6	145	50	18	4.0	31	20
20	93	245	225	50	0.9	123	53	17	2.5	28	20
21	135	290	263	48	0.9	152	55	18	3.5	35	22
22	176	315	282	55	1.0	160	55	18	4.0	35	25
23	176	323	290	54	1.0	180	58	20	4.5	25	25
24	249	355	315	65	1.3	190	68	22	4.5	40	25
25	261	360	323	65	0.9	200	65	22	4.5	43	27
26	292	373	337	67	1.4	210	67	22	5.0	46	28
27	323	380	338	70	1.2	210	70	25	5.0	50	30

TW: total weight; LT: longitudo totalis = total length; LS: longitudo corporis = standard length; LPRP: distantia praepectoralis = prepectoral length (pre-pectoral distance); DV-A: distantia pinnae ventralis et analis (distantia V-A) = V-A distance (pelvic-anal distance); LA: longitudo analis = anal fin (base) length; LIU: liu = from the point of gills opercula connection to pre-pectoral fin base; LD: longitudo pinnae dorsalis = dorsal fin (base) length; DIOC: diameter oculi = eye diameter (orbital diameter); RP: radii pectoralis = pectoral fin rays (first pectoral spine); RV: radii ventralis = pelvic fin rays

In bold with grey background = specimens selected for model development; in bold and surrounded by lines = specimens selected for model validation

Table S2. Length and width of the pharyngeal elements from each *S. glanis* sample

Sample	weight (g)	length (mm) a	length (mm) b	mean length (mm)	st dev Length	width (mm) a	width (mm) b	mean width (mm)	st dev width
1	10	2.97	2.89	2.93	0.06	1.94	1.85	1.90	0.06
2	10	3.34	3.29	3.31	0.04	2.14	2.16	2.15	0.01
3	16	3.45	-	3.45	-	2.16	-	2.16	-
4	16	3.46	3.51	3.48	0.04	2.17	2.19	2.18	0.01
5	20	3.47	-	3.47	-	2.16	-	2.16	-
6	22	3.61	3.59	3.60	0.01	2.36	2.25	2.31	0.08
7	22	3.67	3.61	3.64	0.04	2.36	2.30	2.33	0.04
8	23	3.83	3.77	3.80	0.04	2.49	2.32	2.41	0.12
9	25	3.86	-	3.86	-	2.43	-	2.43	-
10	25	3.83	3.92	3.88	0.06	2.36	2.40	2.38	0.03
11	27	4.08	4.05	4.06	0.02	2.45	2.34	2.40	0.08
12	34	4.19	4.21	4.20	0.01	2.49	2.65	2.57	0.11
13	35	4.09	-	4.09	-	2.41	-	2.41	-
14	36	4.49	-	4.49	-	2.60	-	2.60	-
15	47	4.56	4.43	4.49	0.09	2.59	2.69	2.64	0.07
16	58	4.78	4.72	4.75	0.04	2.88	2.92	2.90	0.03
17	60	5.03	-	5.03	-	3.22	-	3.22	-
18	62	4.91	4.95	4.93	0.03	3.03	2.92	2.98	0.08
19	88	5.40	5.26	5.33	0.10	3.16	3.05	3.11	0.08
20	93	5.74	5.67	5.71	0.05	3.26	3.24	3.25	0.01
21	135	5.62	5.66	5.64	0.03	3.35	3.42	3.39	0.05
22	176	6.62	6.59	6.61	0.02	3.83	3.78	3.81	0.04
23	176	6.47	-	6.47	-	4.02	-	4.02	-
24	249	7.13	7.04	7.08	0.06	4.05	4.00	4.02	0.04
25	261	7.63	7.61	7.62	0.01	4.13	4.26	4.19	0.09
26	292	7.74	7.92	7.83	0.13	4.65	4.71	4.68	0.04
27	323	8.10	8.15	8.12	0.04	4.89	4.95	4.92	0.04