

**Data S3. List of ichthyosaur body lengths.** Data on total body length (i.e. total length from the tip of the rostrum to the tip of the tail) was collected from the literature or personal examination of specimens. The total length for each genus, shown in bold, has been calculated as the average of the estimations from all available specimens of that genus, and has been used to build the graph in Figure S6.

Genus	species	Total body length (m)	Specimen	Reference	Comments
<i>Cartorhynchus</i>	<i>lenticarpus</i>	<b>0.4</b>	AGM CH-628-16	Motani et al., 2015[1]	Estimate from reference
<i>Sclerocormus</i>	<i>parviceps</i>	<b>1.6</b>	AGB6265	Jiang et al., 2016[2]	Estimate from reference
<i>Chaohusaurus</i>	sp.	0.763	AGM I-1 CHS-5 composite	Motani et al., 2014[3]	Fig. 3
<i>Chaohusaurus</i>	sp.	0.99	AGM L-4	Jiang et al., 2016[2]	Estimate from reference
<i>Chaohusaurus</i>	<i>zhangjiawanensis</i>	0.74	WHGMR V26001	Chen et al., 2013[4]	Fig. 2
<i>Chaohusaurus</i>		<b>0.83</b>			
<i>Utatusaurus</i>	<i>hataii</i>	2.5	Reconstruction	Motani, 1998[5]	Fig. 2
<i>Cymbospondylus</i>	<i>petrinus</i>	9.3	UCMP 9950	Merriam, 1908[6]	Estimate from reference
<i>Cymbospondylus</i>	<i>buchseri</i>	5.5	PIMUZ T 4351	Sander, 1989[7]	Estimate from reference
<i>Cymbospondylus</i>		7.4			
<i>Xinminosaurus</i>	<i>catactes</i>	2.32	GMPKU-P-1071	Jiang et al., 2008 [8]	Estimate from reference
<i>Mixosaurus</i>	<i>cornalianus</i>	0.795		Fröbisch et al., 2013[9]	Estimate from reference
<i>Mixosaurus</i>	<i>cornalianus</i>	0.83	PIMUZ T4376	Schmitz et al., 2004[10]	Estimate from reference
<i>Mixosaurus</i>	<i>cornalianus</i>	0.9	PIMUZ T2420	Reposi, 1902[11]	Estimate from reference
<i>Mixosaurus</i>	<i>panxianensis</i>	0.73	GMPKU-P-1039	Jiang et al., 2006[12]	Estimate from reference
<i>Mixosaurus</i>	<i>xindianensis</i>	1	YIGM SPC V-0732	Chen & Cheng, 2010[13]	Estimate from reference
<i>Mixosaurus</i>		<b>0.85</b>			
<i>Phalarodon</i>	<i>callawayi</i>	<b>1.50</b>	CMC VP 7275	Schmitz et al., 2004[10]	Estimate from reference
<i>Besanosaurus</i>	<i>leptorhynchus</i>	<b>5.5</b>	BES SC 999	Dal Sasso & Pinna, 1996[14]	Estimate from reference
<i>Shonisaurus</i>	<i>popularis</i>	13.5	Reconstruction, based in BISP specimens	Kosch, 1990[15]	Fig. 1
<i>Shonisaurus</i>	<i>sikanniensis</i>	21	TMP 94.378.2	Nichols & Manabe, 2004 [16]	Estimate from reference
<i>Shonisaurus</i>		<b>17.25</b>			
<i>Shastasaurus</i>	<i>lingae</i>	8.3	YGMIR SPCV03109	Sander, 2011[17]	Estimate from reference
<i>Shastasaurus</i>	<i>lingae</i>	7	YGMIR SPCV03107	Sander, 2011[17]	Estimate from reference
<i>Shastasaurus</i>		<b>7.65</b>			
<i>Guizhouichthyosaurus</i>	<i>tangae</i>	5.4	TR 00001	Chen & Cheng, 2003[18]	Estimate from reference
<i>Guizhouichthyosaurus</i>	<i>tangae</i>	5.2	IVPP V 11853	Shang & Li, 2009[19]	Estimate from reference
<i>Guizhouichthyosaurus</i>	<i>tangae</i>	6	Various specimens GNG	Maisch et al., 2006[20]	Estimate from reference
<i>Guizhouichthyosaurus</i>		<b>5.5</b>			
<i>Qianichthyosaurus</i>	<i>zhoui</i>	1.21	V11838	Li, 1999[21]	Estimate from reference

<i>Qianichthosaurus</i>	<i>zhoui</i>	1.6	V11839, holotype	Li, 1999[21]	Estimate from reference
<i>Qianichthosaurus</i>	<i>zhoui</i>	1.5	CMNH V1412/C1120	Nichols et al., 2002[22]	Estimate from reference
<i>Qianichthosaurus</i>	<i>xingyiensis</i>	1.3	WS2011-46-R1	Yang et al., 2013[23]	Estimate from reference
<i>Qianichthosaurus</i>		<b>1.40</b>			
<i>Suevoleviathan</i>	<i>integer</i>	4.3	SMNS 15390	Maxwell, 2018[24]	Estimate from reference
<i>Suevoleviathan</i>	<i>integer</i>	2.62	MCZ 1042	Maxwell, 2018[24]	Estimate from reference
<i>Suevoleviathan</i>		<b>3.46</b>			
<i>Temnodontosaurus</i>	<i>platyodon</i>	6.38	BMNH R 2003	McGowan, 1974[25]	Estimate from reference
<i>Temnodontosaurus</i>	<i>trigonodon</i>	7.27	GPIT/RE/9409 (former 1491/13)	McGowan, 1996[26]	Estimate from reference
<i>Temnodontosaurus</i>	<i>trigonodon</i>	7.7	SMNS 15950	Maxwell & Vincent, 2016[27]	Estimate from reference
<i>Temnodontosaurus</i>	<i>trigonodon</i>	9.09	SMNS 50000	McGowan, 1996[26]	Estimate from reference
<i>Temnodontosaurus</i>	<i>trigonodon</i>	7.71	SMNS 52340	McGowan, 1996[26]	Estimate from reference
<i>Temnodontosaurus</i>		<b>7.63</b>			
<i>Leptonectes</i>	<i>tenuirostris</i>	1.33	BMNH R498	McGowan, 1974[25]	Fig. 12
<i>Leptonectes</i>	<i>tenuirostris</i>	1.73	BGS 51236	McGowan & Motani, 2003[28]	Fig. 72
<i>Leptonectes</i>	<i>tenuirostris</i>	2.17	M 3564	Personal observation	
<i>Leptonectes</i>	<i>tenuirostris</i>	3.8	DLR 002	McGowan, 1993[29]	Estimate from reference
<i>Leptonectes</i>	<i>solei</i>	8	BRSMG Ce 9856	McGowan, 1993[29]	Estimate from reference
<i>Leptonectes</i>	<i>solei</i>	5.6	MHN 96270	McGowan, 1993[29]	Fig. 5
<i>Leptonectes</i>		<b>3.77</b>			
<i>Hauffiopteryx</i>	<i>typicus</i>	1.93	GPIT/RE/9417 (former 1491/4)	Von Huene, 1931[30]	Estimate from reference
<i>Hauffiopteryx</i>	<i>typicus</i>	1.55	Composite	Caine & Benton, 2011[31]	Fig. 17
<i>Hauffiopteryx</i>		<b>1.74</b>			
<i>Excalibosaurus</i>	<i>costini</i>	5.7	ROM 47697	McGowan & Motani, 2003[28]	Fig. 2
<i>Eurhinosaurus</i>	<i>longirostris</i>	5.5	Lias $\epsilon$ II,9/10. Frankfurt	Von Huene, 1931[30]	Estimate from reference
<i>Eurhinosaurus</i>	<i>longirostris</i>	3.8	MB R 4004	Personal observation	
<i>Eurhinosaurus</i>		<b>4.65</b>			
<i>Stenopterygius</i>	<i>quadriscissus</i>	3.15	GPIT/RE/9283 (former 43/0219-1)	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	<i>quadriscissus</i>	2.3	Lias $\epsilon$ I,2. No 172. Göttingen	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	<i>quadriscissus</i>	2.5	Lias $\epsilon$ I,2. No 121. St. Petersburg	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	<i>quadriscissus</i>	1.8	Lias $\epsilon$ I,2. No 317. Berlin	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	<i>quadriscissus</i>	2.5	Lias $\epsilon$ I,2. No 224.	Von Huene,	Estimate from reference

			Berlin	1931[30]	
<i>Stenopterygius</i>	<i>quadriscissus</i>	2.9	Lias $\epsilon$ I,2. No 127. Bonn	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	<i>quadriscissus</i>	2.7	Lias $\epsilon$ I,2. No 188. Upsala	Von Huene, 1931v[30]	Estimate from reference
<i>Stenopterygius</i>	<i>quadriscissus</i>	2.2	Lias $\epsilon$ I,2. No 82	Von Huene, 1931v[30]	Estimate from reference
<i>Stenopterygius</i>	<i>quadriscissus</i>	1.6	Lias $\epsilon$ I,2. No 152	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	<i>quadriscissus</i>	1.3	Lias $\epsilon$ I,2. No 272	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	<i>quadriscissus</i>	2.85	Lias $\epsilon$ II, 4/5. No 276	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	<i>quadriscissus</i>	3.1	MHH 1981/33	Maxwell & Vincent, 2016[27]	Estimate from reference
<i>Stenopterygius</i>	<i>quadriscissus</i>	1.38	NHM R4086	Personal observation	
<i>Stenopterygius</i>	<i>quadriscissus</i>	2.75	SMNS 3775	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	<i>quadriscissus</i>	3.04	SMNS 16811	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	<i>quadriscissus</i>	2.85	SMNS 50963	Maxwell, 2012[32]	Estimate from reference
<i>Stenopterygius</i>	<i>quadriscissus</i>	2.08	SMNS 52036	Maxwell & Vincent, 2016[27]	Estimate from reference
<i>Stenopterygius</i>	<i>quadriscissus</i>	2.32	SMF 457	Lingham-Soliar, 2016[33]	Estimate from reference
<i>Stenopterygius</i>	<i>triscissus</i>	3.33	SMNS 14846	Maxwell, 2012[32]	Estimate from reference
<i>Stenopterygius</i>	<i>triscissus</i>	2.2	GPIT/RE/9416 (former 12/0224-2)	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	<i>uniter</i>	3.75	SMNS 17500	Maxwell, 2012[32]	Estimate from reference
<i>Stenopterygius</i>	<i>uniter</i>	3.17	SMNS 4865	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	sp.	2.07	Lias $\epsilon$ II,4. No 4	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	sp.	2.36	Lias $\epsilon$ II,10. No 6	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	sp.	2	OUM JZ 163	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	sp.	1.2	Lias $\epsilon$ II,6. No 287	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	sp.	1.9	Lias $\epsilon$ II,6. No 326	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	sp.	1.7	Lias $\epsilon$ II,6. No 105	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	sp.	3.33	Lias $\epsilon$ II,10. No 275	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	sp.	2.5	Lias $\epsilon$ II,11. No 233	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	sp.	3.4	Lias $\epsilon$ II,10. No 132. Upsala	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>	sp.	3.7	Lias $\epsilon$ II,10. No 186	Von Huene, 1931[30]	Estimate from reference
<i>Stenopterygius</i>		<b>2.50</b>			
<i>Ichthyosaurus</i>	<i>communis</i>	0.87	BMNH R1073	McGowan, 1974[25]	Fig. 2

<i>Ichthyosaurus</i>	<i>communis</i>	1.58	M3550	Personal observation	
<i>Ichthyosaurus</i>	<i>somersetensis</i>	2.7	NHMUK PV OR2013	Massare & Lomax, 2018[34]	Estimate from reference
<i>Ichthyosaurus</i>	<i>breviceps</i>	1.21	BMNH 43006	McGowan, 1974[25]	Fig. 7
<i>Ichthyosaurus</i>	<i>conybeari</i>	1.3	BGS 956	McGowan, 1974[25]	Estimate from reference
<i>Ichthyosaurus</i>		<b>1.53</b>			
<i>Ophthalmosaurus</i>	<i>icenicus</i>	4.12	NHMUK PV R3702, R3893 and R4124 composite	Andrews, 1915[35]	Estimate from reference
<i>Ophthalmosaurus</i>	<i>icenicus</i>	4.30	GPIT/RE/9410	Personal observation	
<i>Ophthalmosaurus</i>		<b>4.21</b>			
<i>Nannopterygius</i>	<i>enthekiodon</i>	3.5	BMNH 46497	McGowan & Motani, 2003[28]	Fig. 91
<i>Undorosaurus</i>	<i>gorodischensis</i>	<b>5</b>	UPM No. EP-II-20 (527)	Arkhangelsky & Zverkov, 2014[36]	Estimate from reference
<i>Cryopterygius</i>	<i>kristiansenae</i>	5.5	PMO 214.578	Druckenmiller et al. 2012[37]	Estimate from reference
<i>Cryopterygius</i>	<i>kielanae</i>	4	GMUL 3579-81	Tyborowski, 2016[38]	Estimate from reference
<i>Cryopterygius</i>		<b>4.75</b>			
<i>Platypterygius</i>	<i>platydactylus</i>	4.5	Holotype	McGowan & Motani, 2003[28]	Fig. 95
<i>Platypterygius</i>	<i>australis</i>	5.6	F 2453	Wade, 1984[39]	Estimate from reference
<i>Platypterygius</i>	<i>hercynicus</i>	4.65	SGS specimen	Kolb and Sander, 2009[40]	Estimate from reference
<i>Platypterygius</i>		<b>4.92</b>			
<i>Athabascasaurus</i>	<i>bituminensis</i>	<b>3.5</b>	TMP 200.29.01	Druckenmiller & Maxwell, 2010[41]	Estimate from reference

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