

Sea Reptile Masses and Dimensions

Estimated total body masses in kilograms (kg **in bold type**), total length in meters (TL), k value (kg = TL in meters cubed x k [which is shown for specimens modeled]), specimen numbers noted when available (pc indicates in private collection). Specific gravity used is 1.025.

Note that because the k value is a measure of length relative to total body mass, the higher the value, the less the length is relative to mass.

		TL/kg/k
THALATTOSAURS		
<i>Askeptosaurus italicus</i>	PIMUZ T 4846 4832	2.9/ 35 /1.44 3.9/ 85
<i>Anshunosaurus wushaensis</i>	IVPP V 13782	3.1/ 35 /1.17
<i>Miodentosaurus brevis</i>	ZMNH M8742	5/ 190 /1.52
<i>Xinpusaurus suni</i>	GMPKU 2000/005	1.3/ 3.5 /1.6
<i>Concavispina biseridens</i>	ZMNH M8804	3.7/ 75 /1.48
PLACODONTIFORMES		
<i>Paraplacodus broilli</i>	PIMUZ T4775	1.25/4/2
<i>Placodus gigas</i>	SMF R1035	3.2/ 100 /3.05
<i>Cyamodus muensteri</i>	PIMUZ T58 BT1007	0.75/ 3.5 1.4/ 22
? <i>Cyamodus orientalis</i>	ZMNH M8820	1.47/ 20
<i>Psephoderma alpinum</i>	ST 22003	2.4/ 95
<i>Henodus chelyops</i>	GPIT PV 30003	1.4/ 40
PACHYPLEUROSAURS		
<i>Neusticosaurus edwardse</i>	IPZ 3935	1.25/ 5.4 /2.8
<i>Serpianosaurus mirigiolensis</i>	MUZ T3931	0.85/ 1.7 /2.8
<i>Wumengosaurus delicatomandibularis</i>	GMPKU-P-1210	1.3/ 6 /2.7
NOTHOSAURS & PISTOSAURS		
<i>Simosaurus gaillardoti</i>	SMNS 14733	4.2/ 200 /2.7

<i>Pistosaurus longaevus</i>	SIAF R4041	3/ 100 /3.7
PLESIOSAURS		
<i>Archaeonectrus rostratus</i>	BMNH 38525	3.1/ 190 /6.4
<i>Rhomaleosaurus cramptoni</i>	NMING F8785	6.7/ 2100 /6.9
<i>Attenborosaurus conybeari</i>	BMNH R.1339	7.2/ 1700 /4.55
<i>Peloneustes philarchus</i>	CAMSM X.50163	3.8/ 600 /10.9
<i>Liopleurodon ferox</i>	GPIT 175412 NHMR 3536	4.9/ 1350 /11.5 6.6/ 3300
<i>Stenorhynchosaurus munozi</i>	SGC VL17052004-1	5.3/ 1650 /11.1
<i>Sachicasaurus vitae</i>	MP111209-1	10.8/ 13500 /10.7
<i>Monquirasaurus boyacensis</i>	MF 1	9.4/ 9130 /11.1
<i>Eiectus longmani</i>	MCZ 1285	10/ 10700 /10.7
<i>Plesiosaurus dolichoderius</i>	NMH 22656 OXFUM J.10304	3.1/ 135 /4.7 3.4/ 185
<i>Seeleyosaurus gulleimiimperatoris</i>	M.B.R.1992	3.8/ 250 /4.55
<i>Microcleidus macropterus</i>	BMNH 36184	5.1/ 650 /4.9
<i>Hydrorion brachypterygius</i>	MH 8 GPIT/477/1/1	2.9/ 110 /4.5 3.2/ 150
<i>Cryptoclidus eurymerus</i>	NHM R8575	5.5/ 1000 /6
<i>Muraenosaurus leedsii</i>	NHM R2422	5.9/ 1000
<i>Hydrotherosaurus alexandrae</i>	UCMP 33912	8/ 1200 /2.2
<i>Thalassomedon hanningtoni</i>	DMNH 1588	10.1/ 2500 /4.9
<i>Styxosaurus snowii</i>	SDSM 451	10.5/ 2300 /2
<i>Albertonectes vanderveideii</i>	TMP 2007.011.0001	11/ 2000 /1.5
<i>Brancasaurus brancai</i>	GWU A3.B4	4.1/ 350 /5.1
<i>Dolichorhynchops osborni</i>	KUVP 1300	5.2/ 1000 /7.1
HUPEHSUCHIANS		
<i>Hupehsuchus nanchangensis</i>	WGSC 26004	0.95/ 2.5 /2.8

<i>Eretmorhipis carrolldongi</i>	YAGM V 1401	0.93/ 2 /2.5
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ICHTHYOSAURS

<i>Sclerocormus parviceps</i>	AGM AGB6265	1.55/ 9 /2.4
<i>Utatusaurus hataii</i>	composite	2.5/ 45 /2.9
<i>Chaohusaurus geishanensis</i>	AGM CHS-5	0.9/ 1.8 /2.47
Unnamed genus and species	UCMP 9950 UCMP 9954	9.55/ 2800 /3.2 14/ 10
<i>Barracudasauroides panxianensis</i>	GMPKU-P-1037	1.23/ 8.3 /4.5
<i>Mixosaurus cornalianus</i>	PIMUZ T5844	1.85/ 24 /3.8
<i>Qianchthyosaurus zhoui</i>	CMNH V1412IC1120	2/ 35 /4.4
unnamed genus <i>sikanniensis</i>	TMP 94.378.2	16.6+/ 17400 /3.8
<i>Shonisaurus popularis</i>	composite	13.7/ 15700 /6.1
<i>Hauffiopteryx typicus</i>	GPIT 1491/4 SMNS 51552	1.9/ 30 /4.4 2.9/ 110
<i>Temnodontosaurus platyodon</i>	NMH R1157	8.5/ 2600 /4.15
unnamed genus <i>trigonodon</i>	PB 1	11.2/ 4500 /3.2
<i>Suevoleviathan integer</i>	SMNS 15390	3.9/ 220 /3.7
<i>Leptonectes tenuirostris</i>	NHMUK R498 ROM VP47698	2.26/ 38 /3.3 2.56/ 55
<i>Excalibosaurus costini</i>	ROM 47697	5.95/ 1200
<i>Eurhinosaurus longirostris</i>	NMH 14566	3.4/ 120 /3.1
<i>Ichthyosaurus somersetensis</i>	NCMH 106234 NLMH 106234	2.5/ 105 /6.7 3.2/ 220
<i>Ichthyosaurus communis</i>	NHM R1162 BMNH 39492 & 2013	1/ 6.5 /6.5 2/ 50
<i>Ichthyosaurus? breviceps</i>	BMNH R4300 CAMSMX 50187	1.2/ 13 /7.5 1.58/ 30
<i>Stenopterygius quadriscissus</i>	SMF 457 —	2.1/ 60 /6.3 3.5/ 270
<i>Stenopterygius triscissus</i>	SMNS 14846	3.3/ 210 /5.8

<i>Stenopterygius uniter</i>	SMNS 17500	3.75/ 310 /5.9
<i>Cryptopterygius kristiansenae</i>	PMO 214.578	5.3/ 400 /2.7
<i>Nannopterygius enthekiodon</i>	NHMUK PV46497	4.2/ 375 /5.1
<i>Ophthalmosaurus icenicus</i>	NHMUK composite	4.5/ 640 /7 6/1500
<i>Aegirosaurus leptospondylus</i>	SM	1.6/ 15 /3.7
<i>Longirostra</i>	QMF 2453	6.1/ 1000 /4.4

MOSASAURS, ETC.

<i>Aigialosaurus dalmaticus</i>	1BSP 190211501	1.15/ 3 /2
<i>Tylosaurus proriger</i>	KUVP 1032 KUVP 5033 CFDC	8.3/ 1700 /2.9 12/ 5000 13.1/ 6700
<i>Platecarpus tympanicus</i>	LACM 128319	5.4/ 440 /2.8
<i>Plioplatecarpus? primaevus</i>	NMC 11840	3.9/ 170 /2.9
<i>Clidastes liodontus</i>	YPM 1335	3/ 55 /2
<i>Prognathodon? overtone</i>	TMP 2007.034.0001/2002.400.0001 2018.042.0005	6.7/ 630 /2.1 8/1000
<i>Plotosaurus bennisoni</i>	KUVP 1001	13/ 5900 /2.7
<i>Aphanizocnemus libanensis</i>	MSNM V783	0.3/ 0.28 /10.4
<i>Pachyrhachis problematicus</i>	HUJ-PAL 3659/3775	1.93/ 7 /0.97

TURTLES

<i>Allopleuron hofmanni</i>	composite	2.32/ 300 /24
<i>Santanachelys gaffneyi</i>	THUg 1386	0.19/ 0.37 /52
<i>Rhinochelys? nammourensis</i>	MSNM V3933	0.85/ 27 /44
<i>Protostega gigas</i>	CMNH 1420 & 1421	2.2/ 600 /56
<i>Archelon ischyros</i>	YPM 3000 NHMV	3.3/ 1800 /50 4/3200

CROCODYLIFORMES

<i>Macrospondylus bollensi</i>	GPIT/RE/1193/2	4.9/ 240 /2.1
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	07286	5/ 250
<i>Pelagosaurus typus</i>	BRLSI M3578 ?	0.44/ 0.17 3/ 60 /2.2
<i>Dakosaurus</i> unnamed species	pc	3.98/ 140 /2.2
<i>Thalattosuchus superciliosus</i>	NMH R 2054	3.1/ 116 /3.9
<i>Cricosaurus suevicus</i>	SMNS 9808	2/ 22 /2.75
<i>Cricosaurus albersdoerferi</i>	BMMD-BK 1-2	2.1/ 28 /3