

Supporting Tables from: The comparative energetics of the turtles and crocodiles *

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Table 1: Testudines and Crocodilia species that are included in the AmP collection at 2021/10/02, the data types as extracted from the literature and selected references. Data were also obtained from websites, which are presented in the AmP website for each entry. The codes of the data types are presented in Table 2.

species	data	references
<i>Actinemys marmorata</i>	am, Lp, Li, Wwb, Wwi, Ri, t-L	Germano and Riedle (2015)
<i>Aldabrachelys gigantea</i>	ab, ap, am, Lb, Lp, Li, Wwb, Wwp, Wwi, Ri	Ernst and Barbour (1989)
<i>Alligator mississippiensis</i>	ab, ap, am, Lp, Li, Ww0, Wwi, Ri, t-L	Deeming and Ferguson (1991), Jacobson and Kushlan (1989)
<i>Alligator sinensis</i>	ab, ap, am, Lp, Li, Ww0, Wwb, Wwi, Ri, t-L, t-Ww	Herbert et al. (2002)
<i>Apalone mutica</i>	am, Lp, Li, Wwb, Wwi, t-L, L-N	Plummer (1977)
<i>Apalone spinifera</i>	ab, ap, am, Lb, Lp, Li, Wwb, Wwi, Ri, t-L, L-dL	Plummer and Mills (2015)
<i>Astrochelys yniphora</i>	ab, am, Lb, Lp, Li, Wwp, Wwi, Ri, L-dL	Smith et al. (2001)
<i>Batagur affinis</i>	ab, ap, am, Lb, Lp, Li, Ww0, Wwb, Wwi, Ri, t-Ww, t-L	Hairul and Shahrul Anuar (2014), Moll et al. (2015)
<i>Batagur baska</i>	ab, ap, am, Wwb, Wwi, Ri, t-Ww	Weissenbacher et al. (2015)
<i>Caiman crocodilus</i>	ab, ap, am, Lb, Lp, Li, Ww0, Wwi, Ri, t-L	Campos et al. (2008), Miranda et al. (2002), Mourao et al. (2014)
<i>Caiman latirostris</i>	ab, ap, am, Lp, Li, Wwb, Wwi, Ri, t-L	Viotto et al. (2020)
<i>Caiman yacare</i>	ap, am, Lb, Lp, Li, Wwb, Wwi, Ri, t-L	Mourao et al. (2014)

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Continuation of Table 1		
species	data	references
Caretta caretta	ah, ab, ap, am, Lh, Lb, Lp, Li, Wwh, Wwb, Wwp, Wwi, Ri, E0, T-ah, t-L-T, t-Ww-T, L-Ww, L-N, L-dL, L0-Lt	Bjorndal et al. (2000, 2013), Braun-McNeill et al. (2008), Byrd et al. (2005), Ehrhart and Yoder (1978), Godfrey and Mrosovsky (1997), Hawkes et al. (2005), Hays and Speakman (1991), Hildebrand and Hatsel (1927), Miller et al. (2003), Norton (2005), Parker (1926, 1929), Reich et al. (2008), Scott et al. (2012), Snover et al. (2007), Spotila (2004), Stokes (2014), Stokes et al. (2006), Stoneburner (1980), Tiwari and Bjorndal (2000), Tucker (2010), Wabnitz and Pauly (2008), Zug et al. (1986)
Caretta caretta MED	ah, ab, ap, am, Lb, Lp, Li, Wwb, Wwp, Wwi, Ri, E0, T-ah, t-LfT, t-Ww-T, L-Ww, L-N	Broderick et al. (2003), Casale et al. (2011, 2009), Cateau (2014), Godfrey and Mrosovsky (1997), Groombridge (1990), Hays and Speakman (1991), Margaritoulis et al. (2003), Piovano et al. (2011), Reid et al. (2009), Stokes (2014), Tiwari and Bjorndal (2000), Zbinden et al. (2006), ?
Carettochelys insculpta	ap, am, Lb, Lp, Li, Wwb, Wwp, Wwi, Ri, t-WwVe, t-JOe, t-WwYe	Doody et al. (2003), Webb et al. (1986)
Centrochelys sulcata	ap, am, Wwb, Wwi, Ri, t-Ww, L-Ww	Ritz et al. (2010a)
Chelodina oblonga	ab, ap, am, Lb, Lp, Li, Wwb, Ri, L-dL, t-L, L-Ww	Ernst and Barbour (1989), Kennett (1996)
Chelonia mydas	ah, ab, ap, am, Lh, Lp, Li, Wwh, Wwp, Wwi, Ri, E0, T-ah, t-WwYe-T, t-WwVe-T, t-JOe-T, t-JCe-T, L0-Lt, L-Ww	Balazs and Chaloupka (2004), Balazs and Ross (1974), Bell et al. (2005), Bjorndal and Carr (1989), Broderick et al. (2003), Chaloupka et al. (2004), Christens (1990), Ekanayake et al. (2016), Frazer and Ehrhart (1985), Frazer and Ladner (1986), Goshe et al. (2010), Guinea (2009), Hendrickson (1958), K.S. et al. (2014), Limpus (1993), Limpus and Fien (2009), Limpus and Nicholls (1988), Limpus et al. (2005), Moreira et al. (1995), Pereira et al. (2011), Prince (2017), Rusli et al. (2016), Salmon et al. (2009), Troeng and Chaloupka (2007), Venkatesan et al. (2005), Wine (2016), Zurita et al. (2012)
Chelonoidis niger	ab, ap, am, Lb, Li, Wwb, Wwi, Ri, t-Ww	Ritz et al. (2010b)
Chelus fimbriata	ab, am, Lb, Lp, Li, L-t, Wwb, Wwi, Ww-t, Ri, t-L	Prithard (2008)

Continuation of Table 1		
species	data	references
Chelydra serpentina	ap, am, Lp, Li, Wwb, Wwi, Ww-L, Ri, t-Ww, T-a.b	Williamson et al. (1989), Yntema (1978)
Chrysemys picta	ab, ap, am, Li, Wwb, Ri, t-L, t-Ww	Rowe (1994), Wilbur (1975)
Claudius angustatus	ab, ap, am, Lb, Lp, Li, Wwb, Wwp, Wwi, Ri	Legler and Vogt (2013)
Clemmys guttata	ab, ap, am, Lb, Lp, Li, Wwi, Ri, t-L	Ernst (1975)
Crocodylus acutus	ab, ap, am, Lb, Lp, Li, Wwb, Wwi, Ri, L0-Lt, L-Ww	García-Grajales et al. (2012)
Crocodylus intermedius	ap, am, Lb, Lp, Li, Wwi, Ri, t-L	Y. (2016)
Crocodylus johnsoni	ab, ap, am, Lb, Lp, Li, Wwb, Wwp, Wwi, Ri, t-WwYe, t-WwVe, t-JOe	Whitehead (1987), Whitehead et al. (1990)
Crocodylus mindorensis	ab, ap, am, Lp, Li, Wwb, Wwp, Wwi, Ri	Marzola et al. (2014)
Crocodylus moreletii	ab, ap, am, Lb, Lp, Li, Wwb, Wwi, Ri, L0-Lt, L-Ww	Pérez-Higareda et al. (1995)
Crocodylus niloticus	ab, ap, am, Lb, Lp, Li, Wwb, Wwp, Wwi, Ri, L-Ww	Ngwanya et al. (2013)
Crocodylus palustris	ab, ap, am, Lb, Lp, Li, Wwb, Wwi, Ri	
Crocodylus porosus	ab, ap, am, Lb, Lp, Li, Wwb, Wwp, Wwi, Ri, L-Ww	Brien (2015)
Crocodylus rhombifer	ab, ap, am, Lp, Li, Wwb, Wwi, Ri	Targarona et al. (2010)
Crocodylus siamensis	ab, ap, am, Lb, Lp, Li, Wwi, Ri, L-Ww	Chentanez et al. (1983), Kanwatakid-Savini et al. (2012)
Cuora flavomarginata	ab, ap, am, Lb, Lp, Li, Wwb, Wwp, Wwi, Ri, t-L	Chen and Lue (2002)
Deinosuchus rugosus	ap, am, Li, Wwi, Ri, t-L	Erickson and Brochu (1999)
Deirochelys reticularia	ab, ap, am, Lb, Lp, Li, Wwb, Wwi, Ri, t-L	Buhlmann et al. (2009)
Dermatemys mawii	ab, ap, am, Lb, Lp, Li, L.t, Wwb, Wwp, Wwi, Ww.t, Ri	Legler and Vogt (2013)
Dermochelys coriacea	ab, ap, am, Lb, Lp, Li, Wwb, Wwi, Ri, JXi, pAi, t-L.f, t-Ww	Jones (2009)
Elseya albagula	ab.T, ap, am, Lb, Lp, Li, Ww0, Wwi, Ri, t-L	Limpus (2008)
Elseya dentata	ab, ap, am, Lb, Lp, Li, Wwb, Wwp, Wwi, Ri, L-dL, t-L	Ernst and Barbour (1989), Kennett (1996)
Elusor macrurus	ab, ap, am, Lb, Lp, Li, Wwi, Ri, t-L	Limpus (2008)
Emydoidea blandingii	ab, ap, am, Lb, Li, Wwb, Wwi, Ri, t-L, t-Ww	Congdon and van Loben Sels (1991)
Emydura macquarii	ab.T, ap, am, Lb, Lp, Li, Wwb, Wwp, Wwi, Ri, t-L	Spencer (2002)
Emydura victoriae	ab, ap, am, Wwb, Wwi, Ri, t-Ww	Gaikhorst et al. (2011), Jones (2003)
Emys orbicularis	ab, ap, am, Lb, Lp, Li, Wwb, Ri, t-L, t-Ww	Masin et al. (2015)
Eretmochelys imbricata	ab, ap, am, Lb, Li, Wwb, Wwi, Ri, t-L	Bell and Pike (1980), Witzell (1980)

Continuation of Table 1		
species	data	references
Gavialis gangeticus	ab, ap, am, Lb, Lp, Li, L-t, Ww0, Wwb, Wwi, R-L	
Geochelone elegans	ab, ap, am, Lb, Li, Ww0, Wwb, Wwi, Ri, t-Ww, t-L	Vyas (1997)
Glyptemys insculpta	ab, ap, am, Lb, Lp, Li, Wwb, Wwi, Ri, t-L	Marchand et al. (2018)
Glyptemys muhlenbergii	ab, ap, am, Lb, Lp, Li, Wwi, Ri, t-L	Lovich et al. (1998)
Gopherus agassizii	ab, ap, am, Lb, Lp, Li, Wwb, Wwp, Wwi, Ri, t-L	Ernst and Barbour (1989), Medica et al. (2012)
Gopherus berlandieri	ab, ap, am, Lb, Li, Wwb, Ri, t-Ww, t-L	Judd and McQueen (1980)
Gopherus morafkai	ab, ap, am, Lb, Lp, Li, Wwb, Wwi, Ri, t-L	Averill-Murray et al. (2018), Bridges (2012)
Gopherus polyphemus	ab, ap, am, Lb, Lp, Li, Wwb, Wwp, Wwi, Ri, t-L	Ernst and Barbour (1989), Mushinsky et al. (1994)
Graptemys caglei	ab, ap, am, Lb, Li, Wwi, Ri, t-L	Lindeman (1999)
Graptemys ernsti	ab, ap, am, Lb, Li, Wwi, Ri, t-L	Lindeman (1999)
Graptemys oculifera	ab, ap, am, Lb, Li, Wwb, Wwi, Ri, t-L	Jones and Hartfield (1995)
Graptemys ouachitensis	ab, am, Lb, Lp, Li, Wwi, Ri, t-L	Lindeman (1999)
Graptemys pseudogeographica	ab, am, Lb, Lp, Li, Wwi, Ri, L-r	Webb (1961)
Graptemys versa	ab, ap, am, Lb, Lp, Li, Wwi, t-L, L-N	Lindeman (2005)
Heosemys spinosa	ab, am, Lb, Lp, Li, Ww0, Wwb, Wwi, Ri, t-Ww, L-Ww	Goetz (2007)
Homopus signatus	ab, ap, am, Lb, Lp, Li, Wwb, Wwi, Ri, L-dL	Loehr (2004)
Hydromedusa maximiliani	ab, ap, am, Lb, Lp, Li, Wwb, Wwi, Ri, L-dL	Martins and Souza (2008), Novelli and de Sousa (2008)
Kinosternon flavescens	ab, ap, am, Lb, Li, Wwi, Ri, t-L, Ww-WwR	Iverson (1991)
Kinosternon hirtipes	ab, ap, am, Lb, Li, Wwi, Ri, t-L	Iverson et al. (1991)
Kinosternon scorpioides	ab, am, Lb, Lp, Li, Ww0, Wwi, Ri, t-L, t-Le	dos Santos Braga et al. (2021), Iverson (2010)
Kinosternon sonoriense	am, Lb, Lp, Li, Wwb, Wwi, Ri, t-L	Hensley et al. (2010)
Kinosternon subrubrum	ab, ap, am, Lb, Li, Wwi, Ri, t-L, L-Ww	Iverson (1979)
Lepidochelys kempii	ab, ap, am, Lb, Lp, Li, Wwb, Wwp, Wwi, Ri	Spotila (2004)
Lepidochelys olivacea	ab, ap, am, Wwb, Wwp, Wwi, Ri, t-Ww	Markham and Kirkwood (1988)
Macrochelys temminckii	ab, ap, am, Lb, Lp, Li, Wwp, Wwi, Ri, t-L	Dobie (1971)
Malaclemys terrapin	ab.T, ap, am, Wwb, Wwi, Ri, t-Ww.T	Roosenburg and Kelley (1996)
Malacochersus tornieri	ab, ap, am, Lb, Li, L-t, Wwb, Wwi, Ww.t, Ri	Ewert et al. (2004)
Mauremys japonica	ap, am, Lb, Lp, Li, Wwb, Wwi, Ri, t-L	Yabe (1989)
Mauremys reevesii	ab, am, Wwb, Wwp, Wwi, Ri, t-Ww	Du et al. (2009)
Mauremys rivulata	ab, ap, am, Lb, Lp, Li, Wwi, Ri, t-L	Çiçek et al. (2016)

Continuation of Table 1		
species	data	references
Mauremys sinensis	ap, am, Lb, Lp, Li, Wwb, Wwp, Wwi, Ri, t-L	Chen and Lue (1998)
Mecistops cataphractus	ab, ap, am, Lp, Li, Ww0, Wwb, Wwi, Ri	
Melanochelys tricarinata	ap, am, Lb, Lp, Li, Wwb, Wwi, Ri, t-L, L-Ww	Kumar et al. (2010)
Melanosuchus niger	ab, am, Lp, Li, Wwb, Wwi, Ri, L-L	Herron (1991)
Myuchelys bellii	ab, ap, am, Lb, Lp, Li, Ww0, Wwi, Ri, t-L	Fielder et al. (2015)
Natator depressus	ah, ab, ap, am, Lh, Lb, Lp, Li, Ww0, Wwh, Wwp, Wwi, Ri, E0, T-ah, L0-Lt, L-Ww, t-Ww	Bentley (2017), Limpus (2007), Rusli et al. (2016), Salmon (2017), Stubbs et al. (2019), Venkatesan et al. (2005), Western Australian Department of Biodiversity, Conservation and Attractions (2019), Wine (2016), ?
Osteolaemus tetraspis	ab, ap, am, Lp, Li, Ww0, Wwb, Wwi, Ri	
Paleosuchus palpebrosus	ab, ap, am, Lb, Lp, Li, Wwb, Wwi, Ri, t-L	Campos et al. (2013)
Paleosuchus trigonatus	ab, ap, am, Lp, Li, Wwb, Wwi, Ri, t-L, t-Ww	
Pangshura tecta	ab, ap, am, Lb, Lp, Li, Wwb, Wwi, Ri, t-L, t-Ww	Vyas (1979)
Pelodiscus sinensis	am, Lp, Li, Wwb, Wwi, Ri, t-Ww, T-ab	Ji et al. (2003)
Pelomedusa subrufa	ab, ap, am, Lb, Lp, Li, Wwb, Wwp, Wwi, L-N	Strydom (2001)
Pelusios castanoides	ab, ap, am, Lb, Lp, Li, Wwp, Wwi, Ri, t-L	Gerlach (2008)
Pelusios subniger	ab, ap, am, Lb, Lp, Li, Wwp, Wwi, Ri, t-L	Gerlach (2008)
Platysternon mega-cephalum	ab, ap, am, Lp, Li, Wwb, Ri, L-Ww	Sung et al. (2014, 2015)
Podocnemis expansa	ab, ap, am, Lb, Lp, Li, Wwb, Wwp, Wwi, Ri, t-L.e, t-L	Chinsamy and Valenzuela (2008), Magalhães et al. (2017)
Podocnemis lewyana	ap, am, Lb, Lp, Li, Wwb, Wwi, Ri, L-dL, T-ab	Páaez et al. (2015), Páez et al. (2009)
Podocnemis unifilis	ab, ap, am, Lb, Lp, Li, Wwb, Wwp, Wwi, Ri, t-L.f, t-Ww.f	Meers et al. (2016), Miorando et al. (2015)
Psammobates geometricus	ab, ap, am, Lb, Lp, Li, Wwi, Ri, L-dL	Baard (1995)
Psammobates oculiferus	am, Lb, Lp, Li, Wwp, Ri, t-L, t-Ww	Keswick (2012)
Pseudemydura umbrina	ab, ap, am, Lb, Lp, Li, Wwb, Wwp, Wwi, Ri, L-Ww, t-L.f, t-Ww.f, T-JO	Arnall (2018), Arnall et al. (2015), Burbidge (1981), Burbidge et al. (2010)
Pseudemys alabamensis	ab, ap, am, Lb, Li, Ri, t-L, L-Ww	Graham (1971)
Pseudemys concinna	ab, ap, am, Lb, Li, Wwb, Wwi, Ri, t-L	Dreslik (1997)
Pseudemys nelsoni	ab, ap, am, Lb, Li, Wwb, Wwi, Ri, L0-Lt	Munscher et al. (2015)
Pseudemys peninsularis	ap, am, Lb, Li, Wwi, Ri, L0-Lt	Munscher et al. (2015)
Pseudemys texana	ab, ap, am, Lb, Lp, Li, Wwi, Ri, t-L	Lindeman (2007)
Rhinemys rufipes	ab, ap, am, Lb, Lp, Li, Wwp, Wwi, Ri, L0-Lt	Magnusson et al. (1997)

Continuation of Table 1		
species	data	references
Sternotherus depressus	ab, ap, am, Lb, Li, Wwi, Ri, L-r	Melancon et al. (2011)
Sternotherus minor	ab, ap, am, Lb, Lp, Li, Wwb, Wwi, Ri, L-r	Becker (2003), Cox et al. (1991)
Sternotherus odoratus	ab, ap, am, Lb, Li, Wwi, Ri, t-L	Ernst (1986)
Stigmochelys pardalis	ab, ap, am, Li, Wwb, Wwi, Ri, t-Ww, L-Ww	Ritz et al. (2010b)
Terrapene carolina	ab, ap, am, Lb, Lp, Li, Wwi, Ri, t-L	Ernst et al. (1998)
Terrapene ornata	ab, ap, am, Lb, Li, Wwi, Ri, t-L, L-Ww	Skorczewski and Andersen (2021)
Testudo graeca	ab-T, ap, am, Wwb, Ri, t-Ww	Hichami et al. (2016), Ritz et al. (2012)
Testudo hermanni	ab, ap, am, Lp, Li, Wwb, Wwi, Ri, t-Ww	Ritz et al. (2012)
Tomistoma schlegelii	ab, ap, am, Lp, Li, Ww0, Wwi, Ri	
Trachemys scripta	ab, ap, am, Lb, Li, Wwb, Wwi, Ri, t-L	Frazer et al. (1990)
Trionyx triunguis	am, Lp, Li, Ww0, Wwb, Wwi, Ri, t-Wwe, t-Wde, t-JOe	Leshem et al. (1991)

Table 2: The codes of the data types as presented in Table 1. Zero variate data left, uni-variate data right. Life history events: 0 start development, h hatch, b birth, p puberty, m death, i death. T stands for temperature.

code	description	code	description
ah	age at h	t-Le	time, embryo length
ab	age at birth	t-L	time, length
ab_T	age at birth (several T)	t-L_T	time, length (several T)
ap	age (or time since birth) at p	t-L_f	time, length (several f)
am	age at death (life span)	t-L_fT	time, length (several f, T)
Lh	length at h	t-Wwe	time, embryo wet weight
Lb	length at b	t-WwYe	time, embryo yolk wet weight
Lp	length at p	t-WwVe	time, embryo wet weight excluding yolk
Li	length at i	t-Ww	time, wet weight
L_t	length at time t	t-Ww_f	time, wet weight (several f)
Ww0	wet weight at 0	t-Ww_T	time, wet weight (several T)
Wwh	wet weight at h	t-Wde	time, embryo dry weight (total)
Wwb	wet weight at b	t-JOe	time, embryo O ₂ consumption
Wwp	wet weight at p	t-JOe_T	time, embryo O ₂ cons (several T)
Wwi	wet weight at i	L-L	length, length (different length measures)
Ww_L	wet weight at length	L-dL	length, change in length
Ww_t	wet weight at time	L0-Lt	length at capture, length at recapture
E0	reserve energy at 0	L-Ww	length, wet weight
Ri	reproduction rate at i	L-r	length, specific growth rate
R_L	reproduction rate at length	L-N	length, number of eggs/offspring
pAi	maximum assimilation rate (energy)	Ww-WwR	wet weight, clutch wet weight
JXi	food consumption at i	T-ah	temperature, age at h
		T-ab	temperature, age at b
		T-JO	temperature, O ₂ consumption

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