Marine and Freshwater Research, 2020, **71**, 1517–1542
https://doi.org/10.1071/MF19332 © CSIRO 2020

Supplementary material

Trophic ecology of albacore tuna (*Thunnus alalunga*) in the western tropical Indian Ocean and adjacent waters

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Table S1. Relations and set of rules used for reconstitution of length and weight of digested prey recovered from the stomachs of albacore tuna (*Thunnus alalunga*) in the Western Indian Ocean and adjacent waters.

Reconstituted length is dorsal mantle length (DML) for cephalopods, total length (TL) for crustaceans, and standard length (SL) for fish. Reconstituted weight is total wet weight of undigested animal (RW). Reconstitutions was based on otolith length (OL), dentary bone length (DBL) and standard length for fishes; lower rostral length (LRL) and lower hood length (LHL) for cephalopods; telson length (TLL), length of cephalothorax (CTL) and total length for crustaceans. Length is in mm and weight in g. Some equations were adjusted to measurements in mm and transformed from original format shown in the references to simplify presentation. Equations presented in bold are species-specific, regular font represents equations taken from another species within genus, italic are genus-specific equations. 'Not estimated' means that no reliable equation was available to the authors for LRL range collected in our study

Order, Class, Phylum, Category, Family, Species and Category	Length reconstitution rules	Weight reconstitution rules	Relationships used for length reconstitution	Relationships used for weight reconstitution	Species substitution	References
Mollusca						
Cephalopoda						
Oegopsidae						
Enoploteuthidae						
Abraliopsis morisii	LRL→DML	LRL→RW	DML = 0.89 + 24.28 × LRL	RW = 0.878095431 × LRL$^{2.75}$	*Abraliopsis gilchristi*	Lu and Ickeringill 2002
Abraliopsis gilchristi	LRL→DML	LRL→RW	**DML = 0.89 + 24.28 × LRL**	**RW = 0.878095431 × LRL$^{2.75}$**		Lu and Ickeringill 2002
Abraliopsis spp.	LRL→DML	LRL→RW	DML = 0.89 + 24.28 × LRL	RW = 0.878095431 × LRL$^{2.75}$	*Abraliopsis gilchristi*	Lu and Ickeringill 2002
Ancistrocheirus lesueurii	LRL→DML	LRL→RW	**DML = -41.3 + 40.75 × LRL**	**RW = 0.823657904 × LRL$^{3.56}$**		Clarke 1986
Pterygioteuthis sp.	LRL→DML	LRL→RW	DML = -4.54 + 35.33 × LRL	RW = 2.435129651 × LRL$^{2.61}$	*Pterygioteuthis gemmata*	Lu and Ickeringill 2002
Pyroteuthis margaritifera	LRL→DML	LRL→RW	**DML = -5.26 + 26.73 × LRL**	**RW = 2.637944459 × LRL$^{2.7}$**		Lu and Ickeringill 2002
Cranchiidae						
Cranchia scabra	LRL→DML	LRL→RW	**DML = 35.94 +35.26 × LRL**	**RW = 6.889510242 × LRL$^{1.88}$**		Lu and Ickeringill 2002
Taonius sp.	LRL→DML	LRL→RW	**DML = -12.3 +61.43 × LRL**	**RW = 2.19460044424291 × LRL$^{2.19}$**		Xavier and Cherel 2009 based on data from Rodhouse *et al*. 1990
Histioteuthidae						
Stigmatoteuthis dofleini	LRL→DML	LRL→RW	**DML = -62.338 + 35.032 × LRL**	**RW = 1.37712776433596 × LRL^{3}**		Kubodera 2002
Lycoteuthidae						
Lycoteuthis lorigera	LRL→DML	LRL→RW	**DML = -13.04 + 34.56 × LRL**	**RW = 1.37712776433596 × LRL^{3}**		Lu and Ickeringill 2002
Octopoteuthidae						
Octopoteuthis rugosa	LRL→DML	LRL→RW	*DML = -1.51 + 18.55 × LRL*	*RW = 1.25860000992948 × LRL$^{2.54}$*	*Octopoteuthis* sp.	Lu and Ickeringill 2002
Octopoteuthis sp.	LRL→DML	LRL→RW	*DML = -1.51 + 18.55 × LRL*	*RW = 1.25860000992948 × LRL$^{2.54}$*		Lu and Ickeringill 2002
Taningia danae	Not estimated	LRL→RW	–	**RW = 0.417279090198691 × LRL$^{3.42}$**		Clarke 1986
Ommastrephidae						
Eucleoteuthis luminosa	LRL→DML	LRL→RW	**DML = 19.42 + 33.18 × LRL**	**RW = 3.126768365 × LRL$^{2.15}$**		Lu and Ickeringill 2002
Ommastrephes bartramii	LRL→DML	LRL→RW	**DML = 17.736 + 34.141 × LRL**	**RW = 2.7232 × LRL$^{2.7538}$**		E. V. Romanov, unpubl. data

Order, Class, Phylum, Category, Family, Species and Category	Length reconstitution rules	Weight reconstitution rules	Relationships used for length reconstitution	Relationships used for weight reconstitution	Species substitution	References
Ornithoteuthis volatilis	LRL→DML	LRL→RW	**DML = 2.58 + 33.74 × LRL**	**RW = 1.973877732 × LRL$^{2.27}$**		Lu and Ickeringill 2002
Sthenoteuthis oualaniensis	LRL→DML	LRL→RW	**DML = 23.308 + 32.121 × LRL**	**RW = 2.897 × LRL$^{2.7254}$**		E. V. Romanov, unpubli. data
Todarodes sp.	LRL→DML	LRL→RW	*DML = -11.3 + 41.36 × LRL*	*RW = 2.188026509 × LRL$^{2.83}$*		Clarke, 1986; Xavier and Cherel, 2009[A]
Onychoteuthidae						
Onychoteuthis sp2 ‘*banksii*’	LRL→DML	LRL→RW	**DML = 2.31 + 32.75 × LRL**	**RW = 0.960789439 × LRL$^{2.8}$**	*Onychoteuthis* ‘*banksii*’	Lu and Ickeringill 2002
Walvisteuthis rancureli	LRL→DML	LRL→RW	DML = 2.31 + 32.75 × LRL	RW = 0.960789439 × LRL$^{2.8}$	*Onychoteuthis* ‘*banksii*’	Lu and Ickeringill 2002
Thysanoteuthidae						
Thysanoteuthis rhombus	LRL→DML	Not estimated	**DML = 45.5075410449497 × LRL$^{1.3889}$**	–		Arkhipkin 1983
Octopoda						
Alloposidae						
Haliphron atlanticus	LHL→DML	Not estimated	**DML = 12.18249396 × LHL$^{1.45}$**	–		Xavier and Cherel 2009
Argonautidae						
Argonauta argo	LHL→DML	LHL→RW	*DML = -9.698778987 × LHL$^{1.314}$*	*RW = 0.222239422 × LHL$^{3.4555}$*	*Argonauta* sp.	Staudinger *et al*. 2013
Ocythoidae						
Ocythoe tuberculata	LHL→DML	LHL→RW	**DML = 2.27+5.82 × LHL**	**RW = 0.349937749 × LHL$^{2.51}$**		Lu and Ickeringill 2002
Tremoctopodidae						
Tremoctopus gracilis	LHL→DML	LHL→RW	**DML = -15.342+23.777 × LHL**	**RW = 0.7975 × LHL$^{3.3858}$**		Authors calculations based on data in appendix table 1 in Smale *et al*. (1993)
Crustacea						
Amphipoda						
Platyscelidae						
Platyscelus ovoides	CTL→TL	CTL→RW	**TL = 0.34 + 2.73 × TLL**	**RW = 0.000234044 × TLL$^{2.53}$**		Potier *et al*. 2011
Stomatopoda						
Squillidae						
Natosquilla investigatoris	TLL→TL	TLL→RW	**TL = 6.1564 + 5.1521 × TLL**	**RW = 0.0042 × TLL$^{2.7363}$**		M. Potier, unpubl. data
Decapoda						
Oplophoridae						
Oplophorus typus	Not estimated	CTL→RW	**–**	**RW = 0.000234044 × TLL$^{3.4022}$**		M. Potier, unpubl. data
Penaeidae						
Funchalia taaningi	Not estimated	CTL→RW	**–**	**RW = -4.8143 + 0.608 × TLL**		M. Potier, unpubl. data
Pisces						
Clupeiformes						
Engraulidae						
Engraulis capensis	OL→SL	OL→RW	**SL = 31.72801359 × OL$^{0.9812}$**	**RW = 1.01592548 × OL$^{2.8541}$**		Smale *et al*. 1995
Perciformes						
Carangidae						
Decapterus macrosoma	OL→SL	OL→RW	**SL = -42.451 + 46.589 × OL**	**RW = 0.226502340676469 × OL$^{3.758}$**		Wang *et al*. 2003
Decapterus sp.	OL→SL	OL→RW	*SL = -19.51 + 45.38 × OL*	*RW = 0.000001036148588 × OL$^{3.54}$*		Potier *et al*. 2011
Chiasmodontidae						

Order, Class, Phylum, Category, Family, Species and Category	Length reconstitution rules	Weight reconstitution rules	Relationships used for length reconstitution	Relationships used for weight reconstitution	Species substitution	References
Chiasmodon niger	OL→SL	OL→RW	**$SL = 6.53 + 22.7 \times OL$**	**$RW = 0.269820056384687 \times OL^{2.55}$**		Potier *et al*. 2011
Pseudoscopelus sp.	OL→SL	OL→RW	$SL = 6.53 + 22.7 \times OL$	$RW = 0.269820056384687 \times OL^{2.55}$	*Chiasmodon niger*	Potier *et al*. 2011
Gempylidae						
Lepidocybium flavobrunneum	FL→SL	Not estimated	**$SL = -0.4849+0.9241 \times FL$**	–		E. V. Romanov, unpubl. data
Nealotus tripes	OL→SL	OL→RW	**$SL = -14.91 + 36.78 \times OL$**	**$RW = 0.042 \times OL^{3.81}$**		Ohshimo *et al*., 2018 (Equation for RW corrected by E. V. Romanov) [B]
Mugilidae						
Liza sp.	OL→SL	OL→RW	$SL = 14.00900028 \times OL^{1.3355}$	$RW = 0.163654136802704 \times OL^{2.88}$	*Chelon richardsonii*	Smale *et al*. 1995
Nomeidae						
Cubiceps pauciradiatus	OL→SL	OL→RW	**$SL = 0.163654136802704 \times OL^{1.3395}$**	**$RW = 0.163654136802704 \times OL^{2.88}$**		Potier *et al*. 2011
Tetraodontiformes						
Molidae						
Ranzania laevis	TL→SL	TL→RW	**$SL = 4.2120 + 0.9186 \times TL$**	**$RW = 0.0007 \times TL^{2.5071}$**		Smith *et al*. 2010 (RW); E. V. Romanov unpubl. data (SL)
Aulopiformes						
Alepisauridae						
Alepisaurus ferox	DBL→SL	SL→RW	**$SL = -28.6199 + 6.7346 \times DBL$**	**$RW = 0.000006718595889 \times SL^{2.8381}$**		E. V. Romanov, unpubl. data
Omosudidae						
Omosudis lowii	DBL→SL	DBL→RW	**$SL = -9.03 + 4.73 \times DBL$**	**$RW = 0.003661069 \times DBL^{2.37}$**		Potier *et al*. 2011
Paralepididae						
Lestidiops similis	OL→SL	OL→RW	$SL = 30.198 + 46.589 \times OL$	$RW = 0.0000003 \times OL^{3.371}$	Lestidiops sphyrenoides	Battaglia *et al*. 2015
Magnisudis atlantica	OL→SL	OL→RW	**$SL = -130.46 + 85.73 \times OL$**	**$RW = 0.0024 \times OL^{6.52}$**		Ohshimo *et al*. 2018
Paralepis sp.	OL→SL	OL→RW	*$SL = -1.88 + 50.12 \times OL$*	*$RW = 0.1916478626 \times OL^{3.4096}$*		E. V. Romanov, unpubl. data
Beryciformes						
Berycidae						
Beryx splendens	OL→SL	SL→RW	**$SL = 1.5943+16.238 \times OL$**	**$RW = 0.000040209736245 \times SL^{2.98}$**		Al-Mamry *et al*. 2010 (SL); Ivanin and Rebik 2012 (RW)
Diretmidae						
Diretmus argenteus	OL→SL	OL→RW	**$SL = 7.557194323 \times OL^{1.1861}$**	**$RW = 0.044811073 \times OL^{3.1983}$**		Smale *et al*. 1995
Gadiformes						
Moridae						
Antimora rostrata	OL→SL	OL→RW	**$SL = 6.132484686 \times OL^{1.5416}$**	**$RW = 0.000148177 \times OL^{5.6461}$**		Smale *et al*. 1995
Merlucciidae						
Merluccius spp.	OL→TL, TL→SL	TL→RW	$TL = 6.997 \times (OL+2.170)^{1.362}$ $SL = -0.58 + 0.93 \times TL$	$RW = 0.0076 \times (0.1 \times TL)^{2.9739}$	*Merluccius capensis*	Wilhelm *et al*. 2013 (OL-TL), Moutopoulos and Stergiou 2002 (TL-SL), Brinkman 2007 (TL-RW)
Myctophiformes						
Myctophidae						
Diaphus perspicillatus	OL→SL	OL→RW	**$SL = -7.14 + 18.73 \times OL$**	**$RW = 0.000004 \times OL^{3.195}$**		Potier *et al*. 2011

Order, Class, Phylum, Category, Family, Species and Category	Length reconstitution rules	Weight reconstitution rules	Relationships used for length reconstitution	Relationships used for weight reconstitution	Species substitution	References
Electrona risso	OL→SL	OL→RW	**$SL = 11.89835315 \times OL^{1.1537}$**	**$RW = 0.0227976 \times OL^{3.9285}$**		Smale *et al*. 1995
Hygophum hygomii	OL→SL	SL→RW	**$SL = 1.774 + 15.941 \times OL$**	**$RW = 0.000008 \times SL^{3.2189}$**		Battaglia *et al*. 2010 (SL); P. Alexander Hulley 2018 pers. comm., Hout Bay, South Africa (RW)
Lampanyctodes hectoris	OL→SL	OL→RW	**$SL = 18.92152192 \times OL^{1.3463}$**	**$RW = 0.074967544 \times OL^{4.2197}$**		Smale *et al*. 1995
Lobianchia gemellarii	OL→SL	SL→RW	**$SL = 5.270367002 \times OL^{1.4879}$**	**$RW = 0.00004 \times SL^{2.7737}$**		Smale *et al*. 1995 (SL); Battaglia *et al*. 2015 (RW)
Myctophum asperum	OL→SL	OL→RW	**$SL = 7.03 + 20.76 \times OL$**	**$RW = 0.244143283153437 \times OL^{2.96}$**		Potier *et al*. 2011
Symbolophorus barnardi	OL→SL	OL→RW	**$SL = 26.18534754 \times OL^{0.8475}$**	**$RW = 0.277065871 \times OL^{2.4423}$**		Smale *et al*. 1995
Stomiiformes						
Sternoptychidae						
Maurolicus muelleri	OL→SL	OL→RW	**$SL = 23.46945996 \times OL^{0.9618}$**	**$RW = 0.159997034 \times OL^{3.0971}$**		Smale *et al*. 1995

[A]Clarke (1986) presented equation for *Todarodes sagittatus*, while Xavier and Cherel (2009) presented same equation for *Todarodes* sp.

[B]Value 0.42 for parameter ‘a’ in the weight reconstitution equation in Ohshimo *et al*. (2018: Table 1) is apparently a misprint.

Table S2. Name species, taxon groups, clusters tree and biogeographic provinces corresponding to the multivariate classification and regression tree shown at the Fig. 7, see main text of the manuscript

Species code	Species	Taxa	Clusters	Provinces
JUC	Coastal and reef-associated fish juveniles	Fish	1	EAFR-MCM, ISSG
ONY	*Walvisteuthis rancureli*	Cephalopod		
STO	*Sthenoteuthis oualaniensis*	Cephalopod		
DIS	*Diaphus* sp.	Fish		
ONB	*Onychoteuthis* sp2 '*banksii*'	Cephalopod		
LEI	*Lestrolepis intermedia*	Fish		
LYL	*Lycoteuthis lorigera*	Cephalopod	2	EAFR-SA
MAU	*Maurolicus muelleri*	Fish		
SYP	*Symbolophorus barnardi*	Fish		
ENS	*Engraulis capensis*	Fish		
HES	*Heterocarpus* sp.	Crustacean		
PHS	*Phrosina semilunata*	Crustacean		
MAU	*Maurolicus muelleri*	Fish	3	EAFR-SA
NAN	*Nansenia macrolepis*	Fish		
ONA	Unidentified Onychoteuthidae	Cephalopod		
BRS	*Brachyscelus crusculum*	Crustacean		
JAS	*Jasus* sp.	Crustacean		
Unk_P	Unidentified fish	Fish		
LAH	*Lampanyctodes hectoris*	Fish	4	EAFR-SA
MAU	*Maurolicus muelleri*	Fish		
ORN	*Ornithoteuthis volatilis*	Cephalopod		
NAN	*Nansenia macrolepis*	Fish		
LIZ	*Liza* sp.	Fish		
HOY	*Stigmatoteuthis hoylei*	Cephalopod		
JUC	Coastal and reef-associated fish juveniles	Fish	5	MONS
NAT	*Natosquilla investigatoris*	Crustacean		
DES	*Decapterus* sp.	Fish		
STO	*Sthenoteuthis oualaniensis*	Cephalopod		
ORN	*Ornithoteuthis volatilis*	Cephalopod		
LYS	*Lysiosquilla tredecimdentata*	Crustacean		
CUB	*Cubiceps pauciradiatus*	Fish	6	MONS
JUC	Coastal and reef-associated fish juveniles	Fish		
DES	*Decapterus* sp.	Fish		
ARO	*Argonauta* argo	Cephalopod		
ONA	Unidentified Onychoteuthidae	Cephalopod		
STO	*Sthenoteuthis oualaniensis*	Cephalopod		

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