



Dichotomy in morphology of the same genetic lineage of green turtles

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Table S1. The size data reported in several reports from various nesting beaches in different oceans. If one of the SCL and CCL dimensions is referenced from different reference, this is also indicated in the table (CCL: Curved carapace length, SCL: Straight carapace length, * There is no data for relevant beach).

Region	Nesting Beach	CCL			SCL			Reference
		n	mean	Range	n	mean	range	
Mediterranean	Eastern Mediterranean coast of Turkey	106	88.5	79–105	106	83.5	73.3–100	This study
Mediterranean	Alagadi (Cyprus)	92	91.5	77–106		*		Broderick et al., 2003
Mediterranean	Kazanlı (Turkey)	43	89.5	76–104	43	87.5	70–98	Elmaz & Kalay, 2006
Mediterranean	Akyatan (Turkey)	39	91.9	82.5–102.5	39	87	76.5–101	Türkecan, 2010
Mediterranean	Latakia (Syria)	10	91.4	85–97.5		*		Rees et al., 2008
Mediterranean	Samandağ (Turkey)	365	86.9	72–106		*		Sönmez, 2019
North Atlantic	El Cuyo (Mexico)	282	107.2	91–122		*		Xavier et al., 2006

North Atlantic	Tortuguero (Costa Rica)	14	108.7	104.3–116.3	2107	100.2	*	Bjorndal & Carr, 1989 Alfaro-Nunez et al., 2015 for CCL
North Atlantic	Cape Canaveral, Florida (USA)		*		90	101.5	83.2–116.7	Witherington & Ehrhart, 1989
South Atlantic	Trindade Island, Brazil	3010	115.2	90–143.5		*		Almeida et al., 2011
South Atlantic	Ascension Island (UK)	738	116.8	101.6–131.5		*		Hirth, 1997
South Atlantic	Atol dasRocas, Brazil,	1850	114.5	96–132	38	105.5	92–115	Bellini et al., 2013 Grossman et al., 2007 for SCL
South Atlantic	Galibi Reserve (Suriname)		*		291	109	97–125	Schulz, 1975
South Atlantic	Aves Island (Venezuela)	450	112.4	*		*		Vera, 2007
North Pacific	Wan-An Island	11	104.6	93–111	10	98.4	89–108	Wang & Cheng, 1999
North Pacific	Orchid Island (Taiwan)	66	103.9	93–116	66	99.5	86–111.3	Cheng et al., 2009
South-west Pacific	Heron Island, GBR, Australia	1942	107,00	91–124		*		Limpus, 2008
South-west Pacific	Raine Island (Australia)	20947	105.9	86–130.1	54	100.3	89–107.6	Limpus et al., 2013
North Indian	Kosgoda (Sri Lanka)	418	105,00	85.9–120.2		*		Ekanayake et al., 2016
North Indian	RasGamsha (RedSea)	76	104,00	92–120		*		Hanafy, 2012
North Indian	Ras al Hadd (Omman)	36	102.7	89–116	62	97.1	*	Mendonça et al., 2010 Al Ameri et al., 2022 for SCL

North Indian	RasBaridi (SaudiArabia)	200	105.1	89–193	199	97.2	78–110	Pilcher & Al-Merghani, 2000
South-west Indian	Mohéli, Comoros Islands	742	108.1	90–129		*		Innocenzi et al., 2010
South-west Indian	Aldabra, Seychelles Islands	4681	110.9	93–129		*		Mortimer et al., 2022

Table S2. Conversion equations data reported from various oceans and reports. Along with the reported conversion equation, the life stages and coefficient of determination was also given for each report (* There is no data for relevant beach)

Region	n	Life stage	Conversion equation	Coefficient determination (R^2)	Reference
Atlantic	14	*	SCL=0.9426*CCL-0.0515	0.99	Goshe et al., 2010
Pacific	200	Juvenile and Adults	CCL=1.0363*SCL+2.2464	0.95	Seminoff et al., 2003
Atlantic	1421	Juvenile	CCL = 1.049*SCL – 0.35	0.99	VanderZanden et al., 2013
Atlantic		Adults	CCL = 0.83*SCL + 25.4	0.69	Godley et al., 2002
Mediterranean	106	Adults	CCL = 1.03 + 1.04*SCL	0.93	This study

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