

The following supplement accompanies the article

Dispersal of green turtles from Africa's largest rookery assessed through genetic markers

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Table S1. mtDNA control region haplotype frequencies (490 bp), at 14 Atlantic green turtle nesting populations with total no. of samples per area. See Table 1 for site abbreviations. Long haplotypes (856bp) for study area are shown in the table below.

Haplotype	Nesting Populations													
	EcFL ^{a,b}	SFL ^b	MEX ^a	CR ^{c,d}	CUB ^e	BUC ^f	AV ^{d,f,g}	SUR ^{a,f}	RC/N ^{a,h}	TRI ^h	ASC ^{a,i,j}	POI ^k	BIO ⁱ	STP ⁱ
CM-A1	197	27	7		3									
CM-A2	7	4												
CM-A3	92	127	5	395	16		5	1						
CM-A4				1										
CM-A5	2	4	1	32		45	62	68						1
CM-A6								3			11		5	1
CM-A7								1						
CM-A8	1								50	67	204	170*	45	17
CM-A9									7	19	9			
CM-A10									2		5			
CM-A11									1	1				
CM-A12									5					
CM-A13	7	2												
CM-A15			1											

^aEncalada et al. 1996, ^bShamblin et al. 2015, ^cBjorndal et al. 2005, ^dLahanas et al. 1998, ^eRuiz-Urquiola et al. 2010, ^fShamblin et al. 2012, ^gLahanas et al. 1994, ^hBjorndal et al. 2006, ⁱFormia et al. 2006, ^jFormia et al. 2007, ^kThis study
 * Long haplotypes (856bp): CMA8.1 (n=169), CMA8.3 (n=1), CMA42.1 (n=1)

Table S1. Continuation

Haplotype	Nesting Populations													
	EcFL ^{a,b}	SFL ^b	MEX ^a	CR ^{c,d}	CUB ^e	BUC ^f	AV ^{d,f,g}	SUR ^{a,f}	RC/N ^{a,h}	TRI ^h	ASC ^{a,i,j}	POI ^k	BIO ⁱ	STP ⁱ
CM-A16	2	1	1			4								
CM-A17		2	2											
CM-A18	1	1	3											
CM-A20				2										
CM-A21				3										
CM-A23									6	1				
CM-A24									1	7				
CM-A25								3		1				
CM-A27					1									
CM-A28	2	3			1									
CM-A32								1	4	1				
CM-A33									1					
CM-A35														1
CM-A36														3
CM-A37														1
CM-A38														2
CM-A39										1				
CM-A42												1*		
CM-A44										1				
CM-A45										1				
CM-A46										2				
CM-A48					5									
CM-A50										1				
CM-A53		3												
CM-A56					1									
CM-A57					1									
n	311	174	20	433	28	61	67	73	69	99	245	171	50	26

^aEncalada et al. 1996, ^bShamblin et al. 2015, ^cBjorndal et al. 2005, ^dLahanas et al. 1998, ^eRuiz-Urquiola et al. 2010, ^fShamblin et al. 2012, ^gLahanas et al. 1994, ^hBjorndal et al. 2006, ⁱFormia et al. 2006, ^jFormia et al. 2007, ^kThis study
* Long haplotypes (856bp): CMA8.1 (n=169), CMA8.3 (n=1), CMA42.1 (n=1)

Table S2. Pairwise exact test P-values (above diagonal) and pairwise F_{ST} values (below diagonal) among the 14 Atlantic green turtle (*Chelonia mydas*) nesting populations, based on ~490bp sequences of the control region of the mtDNA. The study site is in grey and in bold, and abbreviations follow those in Table 1. Asterisks indicate statistically significant comparisons (* $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$) i) prior to corrections, in the low diagonal, ii) after false discovery rate (FDR) correction, in the above diagonal. Non-significant values, after FDR (Narum, 2006) correction, are marked in bold (for a $P < 0.05$ FDR = 0.0098, $P < 0.01$ FDR = 0.0020, $P < 0.001$ FDR = 0.0002).

	MEX	EcFL	SFL	CR	AV	BUC	CUB	SUR	TRI	RC/FN	ASC	POI	BIO	STP
MEX	-	0.009*	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***
EcFL	0.082**	-	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***
SFL	0.182***	0.197***	-	0.000***	0.000***	0.000***	0.009*	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***
CR	0.202***	0.254***	0.033***	-	0.000***	0.000***	0.009*	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***
AV	0.796***	0.895***	0.872***	0.820***	-	0.342	0.000***	0.108	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***
BUC	0.783***	0.897***	0.873***	0.822***	0.000	-	0.000***	0.045	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***
CUB	0.104***	0.243***	0.131**	0.154***	0.822***	0.811***	-	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***
SUR	0.880***	0.920***	0.905***	0.849***	0.021	0.031*	0.887***	-	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***
TRI	0.860***	0.899***	0.885***	0.820***	0.657***	0.659***	0.873***	0.759***	-	0.009*	0.000***	0.000***	0.000***	0.000***
RC/FN	0.787***	0.886***	0.863***	0.810***	0.567***	0.554***	0.812***	0.666***	0.031**	-	0.000***	0.000***	0.000***	0.009*
ASC	0.913***	0.918***	0.914***	0.852***	0.728***	0.735***	0.922***	0.795***	0.060***	0.037***	-	0.000***	0.243	0.000***
POI	0.953***	0.931***	0.929***	0.855***	0.805***	0.823***	0.950***	0.895***	0.146***	0.070***	0.016***	-	0.000***	0.000***
BIO	0.877***	0.909***	0.894***	0.824***	0.640***	0.646***	0.878***	0.789***	0.093***	0.037***	0.003	0.106***	-	0.036
STP	0.766***	0.895***	0.870***	0.811***	0.522***	0.505***	0.792***	0.671***	0.083***	0.036*	0.067***	0.201***	0.045*	-

Table S3. Summary of source-centric mixed stock analysis of Atlantic green turtle nesting populations (n=14) and juvenile foraging grounds (n=17).

Nesting Population	Foraging grounds																	
	NC	EcFL	BHM	BRB	ALF	RC	FN	BA	ES	UB	AI	CB	BuA	CV	COR	ST	WA	X
Poilão, Guinea Bissau																		
Mean	0.01	0.01	0.03	0.03	0.04	0.02	0.04	0.04	0.04	0.05	0.03	0.04	0.06	0.06	0.10	0.17	0.18	0.04
CI: 97.5%	0.04	0.05	0.09	0.10	0.10	0.06	0.09	0.10	0.09	0.14	0.08	0.10	0.13	0.13	0.20	0.31	0.32	0.13
CI: 2.5%	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.07	0.08	0.00
Bioko, Eq.Guinea																		
Mean	0.05	0.05	0.05	0.05	0.05	0.06	0.05	0.06	0.07	0.05	0.05	0.05	0.05	0.06	0.07	0.05	0.06	0.05
CI: 97.5%	0.17	0.17	0.19	0.19	0.18	0.20	0.19	0.20	0.22	0.19	0.19	0.18	0.19	0.20	0.22	0.19	0.21	0.18
CI: 2.5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sao Tome and Principe																		
Mean	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.05	0.06	0.09	0.08	0.06	0.05
CI: 97.5%	0.17	0.18	0.18	0.19	0.17	0.17	0.17	0.17	0.17	0.18	0.17	0.22	0.16	0.19	0.31	0.27	0.19	0.20
CI: 2.5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ascension Island, UK																		
Mean	0.01	0.01	0.02	0.05	0.09	0.09	0.05	0.05	0.08	0.11	0.09	0.08	0.07	0.02	0.09	0.03	0.04	0.02
CI: 97.5%	0.04	0.05	0.06	0.12	0.17	0.18	0.12	0.14	0.16	0.21	0.18	0.16	0.16	0.06	0.17	0.09	0.10	0.07
CI: 2.5%	0.00	0.00	0.00	0.00	0.03	0.03	0.01	0.00	0.02	0.04	0.03	0.02	0.02	0.00	0.03	0.00	0.00	0.00
Trindade, Brazil																		
Mean	0.03	0.03	0.04	0.04	0.04	0.08	0.04	0.12	0.08	0.05	0.10	0.09	0.08	0.03	0.03	0.04	0.03	0.04
CI: 97.5%	0.11	0.12	0.14	0.14	0.13	0.21	0.13	0.29	0.21	0.16	0.24	0.22	0.23	0.12	0.10	0.14	0.12	0.14
CI: 2.5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Rocas/F.Noronha, Brazil																		
Mean	0.05	0.05	0.06	0.06	0.05	0.06	0.06	0.06	0.06	0.06	0.05	0.07	0.05	0.05	0.05	0.06	0.05	0.05
CI: 97.5%	0.20	0.19	0.19	0.20	0.19	0.22	0.19	0.19	0.20	0.20	0.19	0.23	0.18	0.19	0.16	0.19	0.18	0.19
CI: 2.5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Suriname																		
Mean	0.01	0.03	0.05	0.07	0.07	0.05	0.14	0.07	0.08	0.03	0.04	0.04	0.05	0.17	0.01	0.02	0.03	0.04
low C.I.	0.04	0.09	0.15	0.16	0.15	0.11	0.25	0.15	0.15	0.07	0.09	0.09	0.12	0.31	0.03	0.06	0.09	0.12
upper C.I.	0.00	0.00	0.00	0.01	0.02	0.01	0.05	0.01	0.02	0.00	0.01	0.01	0.01	0.06	0.00	0.00	0.00	0.00

Table S3. Continuation

Nesting Population	Foraging grounds																	
	NC	EcFL	BHM	BRB	ALF	RC	FN	BA	ES	UB	AI	CB	BuA	CV	COR	ST	WA	X
Aves Island, VNZ																		
Mean	0.04	0.05	0.06	0.07	0.07	0.06	0.07	0.06	0.05	0.06	0.06	0.05	0.06	0.07	0.03	0.04	0.05	0.05
CI: 97.5%	0.13	0.19	0.20	0.20	0.21	0.20	0.21	0.21	0.18	0.17	0.20	0.16	0.19	0.25	0.09	0.15	0.15	0.18
CI: 2.5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Buck Island																		
Mean	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.06	0.05	0.05	0.06	0.06	0.05	0.05	0.06	0.06
CI: 97.5%	0.21	0.19	0.21	0.20	0.20	0.20	0.18	0.19	0.18	0.20	0.17	0.18	0.19	0.18	0.20	0.18	0.19	0.20
CI: 2.5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tortuguero, CR																		
Mean	0.01	0.15	0.53	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
CI: 97.5%	0.04	0.33	0.84	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.64
CI: 2.5%	0.00	0.04	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Mexico																		
Mean	0.16	0.42	0.13	0.06	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.17
CI: 97.5%	0.42	0.72	0.38	0.18	0.02	0.01	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.04	0.00	0.02	0.03	0.49
CI: 2.5%	0.03	0.11	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Southeast Cuba																		
Mean	0.27	0.11	0.11	0.07	0.03	0.03	0.03	0.03	0.01	0.02	0.01	0.01	0.02	0.05	0.01	0.03	0.04	0.12
CI: 97.5%	0.53	0.34	0.34	0.24	0.14	0.10	0.10	0.11	0.05	0.07	0.05	0.06	0.06	0.18	0.03	0.12	0.13	0.37
CI: 2.5%	0.06	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
South Florida, USA																		
Mean	0.21	0.16	0.12	0.11	0.04	0.03	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.02	0.03	0.12
CI: 97.5%	0.51	0.48	0.39	0.36	0.14	0.10	0.10	0.09	0.04	0.05	0.04	0.04	0.05	0.17	0.02	0.09	0.10	0.40
CI: 2.5%	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
East central Florida, USA																		
Mean	0.30	0.20	0.12	0.09	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.04	0.00	0.02	0.02	0.11
CI: 97.5%	0.57	0.51	0.39	0.27	0.05	0.05	0.06	0.06	0.02	0.04	0.02	0.03	0.04	0.14	0.02	0.07	0.07	0.39
CI: 2.5%	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table S4. Summary of foraging ground-centric mixed stock analysis of Atlantic green turtle nesting populations (n=14) and juvenile foraging grounds (n=17).

Foraging grounds	Nesting populations													
	EcFL	SFL	MX	CR	CUB	BUC	AV	SUR	RC/N	TRI	ASC	GB	Bio	STP
North Carolina, USA														
Mean	0.19	0.10	0.35	0.16	0.08	0.00	0.01	0.02	0.00	0.01	0.02	0.05	0.01	0.00
CI: 2.5%	0.02	0.00	0.14	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CI: 97.5%	0.41	0.26	0.59	0.36	0.18	0.00	0.05	0.06	0.01	0.03	0.06	0.11	0.02	0.01
East central Florida, USA														
Mean	0.03	0.02	0.26	0.63	0.01	0.00	0.01	0.01	0.00	0.00	0.01	0.01	0.00	0.00
CI: 2.5%	0.00	0.00	0.12	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CI: 97.5%	0.11	0.08	0.43	0.78	0.03	0.00	0.02	0.04	0.00	0.01	0.03	0.04	0.01	0.00
Bahamas														
Mean	0.01	0.01	0.03	0.92	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00
CI: 2.5%	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CI: 97.5%	0.03	0.02	0.08	0.97	0.01	0.00	0.01	0.04	0.00	0.01	0.01	0.03	0.00	0.00
Barbados														
Mean	0.06	0.06	0.15	0.28	0.02	0.00	0.03	0.14	0.00	0.01	0.09	0.13	0.01	0.00
CI: 2.5%	0.00	0.00	0.02	0.08	0.00	0.00	0.00	0.03	0.00	0.00	0.01	0.01	0.00	0.00
CI: 97.5%	0.18	0.19	0.31	0.46	0.09	0.00	0.11	0.25	0.01	0.05	0.22	0.28	0.03	0.01
Almofala, Brazil														
Mean	0.01	0.03	0.02	0.14	0.02	0.00	0.04	0.19	0.00	0.02	0.26	0.25	0.01	0.00
CI: 2.5%	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.08	0.00	0.00	0.10	0.09	0.00	0.00
CI: 97.5%	0.04	0.09	0.07	0.23	0.06	0.00	0.15	0.29	0.02	0.07	0.43	0.41	0.04	0.02
Rocas Atol, Brazil														
Mean	0.02	0.03	0.02	0.05	0.02	0.00	0.06	0.21	0.01	0.05	0.37	0.16	0.02	0.01
CI: 2.5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.15	0.01	0.00	0.00
CI: 97.5%	0.06	0.09	0.06	0.12	0.07	0.00	0.20	0.33	0.03	0.15	0.57	0.35	0.06	0.02

Table S4. Continuation

Foraging grounds	Nesting populations													
	EcFL	SFL	MX	CR	CUB	BUC	AV	SUR	RC/N	TRI	ASC	GB	Bio	STP
Fernando Noronha, Brazil														
Mean	0.02	0.02	0.03	0.02	0.01	0.00	0.04	0.40	0.00	0.02	0.16	0.26	0.01	0.00
CI: 2.5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.02	0.09	0.00	0.00
CI: 97.5%	0.05	0.06	0.08	0.06	0.05	0.00	0.15	0.50	0.02	0.06	0.33	0.42	0.04	0.02
Bahia, Brazil														
Mean	0.02	0.02	0.02	0.03	0.02	0.00	0.06	0.25	0.01	0.08	0.21	0.27	0.02	0.01
CI: 2.5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.01	0.02	0.03	0.00	0.00
CI: 97.5%	0.07	0.08	0.08	0.09	0.07	0.00	0.19	0.39	0.02	0.21	0.48	0.51	0.06	0.02
Espirito Santo, Brazil														
Mean	0.01	0.01	0.01	0.01	0.01	0.00	0.05	0.26	0.01	0.04	0.29	0.29	0.02	0.01
CI: 2.5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.09	0.06	0.00	0.00
CI: 97.5%	0.03	0.03	0.03	0.04	0.03	0.00	0.16	0.36	0.02	0.12	0.52	0.47	0.07	0.02
Ubatuba, Brazil														
Mean	0.01	0.01	0.01	0.02	0.01	0.00	0.04	0.08	0.01	0.03	0.40	0.36	0.01	0.01
CI: 2.5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.16	0.08	0.00	0.00
CI: 97.5%	0.04	0.04	0.04	0.05	0.04	0.00	0.13	0.17	0.02	0.10	0.68	0.60	0.05	0.02
Arvoredo Island, Brazil														
Mean	0.01	0.01	0.01	0.01	0.01	0.00	0.06	0.16	0.01	0.07	0.37	0.27	0.01	0.01
CI: 2.5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.17	0.07	0.00	0.00
CI: 97.5%	0.03	0.03	0.04	0.04	0.03	0.00	0.18	0.27	0.02	0.16	0.59	0.47	0.06	0.02
Casino Beach, Brazil														
Mean	0.01	0.01	0.01	0.01	0.01	0.00	0.05	0.15	0.01	0.06	0.31	0.35	0.01	0.01
CI: 2.5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.12	0.15	0.00	0.00
CI: 97.5%	0.03	0.04	0.04	0.04	0.03	0.00	0.16	0.26	0.03	0.15	0.53	0.55	0.06	0.03

Table S4. Continuation

Foraging grounds	Nesting populations													
	EcFL	SFL	MX	CR	CUB	BUC	AV	SUR	RC/N	TRI	ASC	GB	Bio	STP
Buenos Aires, Argentina														
Mean	0.01	0.01	0.01	0.01	0.01	0.00	0.04	0.17	0.00	0.05	0.25	0.41	0.01	0.00
CI: 2.5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.08	0.20	0.00	0.00
CI: 97.5%	0.04	0.04	0.04	0.04	0.03	0.00	0.16	0.27	0.02	0.14	0.48	0.58	0.05	0.02
Cape Verde														
Mean	0.03	0.03	0.04	0.04	0.02	0.00	0.04	0.40	0.00	0.01	0.04	0.31	0.01	0.00
CI: 2.5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.14	0.00	0.00
CI: 97.5%	0.10	0.09	0.13	0.14	0.07	0.00	0.16	0.54	0.02	0.05	0.16	0.47	0.04	0.02
Corisco Bay, Eq. Guinea														
Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.00	0.01	0.28	0.60	0.01	0.01
CI: 2.5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.37	0.00	0.00
CI: 97.5%	0.02	0.01	0.02	0.02	0.01	0.00	0.05	0.08	0.02	0.04	0.47	0.77	0.07	0.04
Sao Tome, Sao Tome and Principe														
Mean	0.01	0.01	0.01	0.01	0.01	0.00	0.02	0.04	0.00	0.01	0.07	0.77	0.01	0.01
CI: 2.5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.62	0.00	0.00
CI: 97.5%	0.04	0.04	0.05	0.05	0.04	0.00	0.07	0.10	0.01	0.05	0.19	0.87	0.04	0.03
West Africa: Liberia to Benin														
Mean	0.01	0.01	0.02	0.02	0.01	0.00	0.02	0.06	0.00	0.01	0.08	0.75	0.01	0.00
CI: 2.5%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.58	0.00	0.00
CI: 97.5%	0.05	0.05	0.06	0.07	0.04	0.00	0.07	0.13	0.01	0.04	0.22	0.86	0.03	0.01

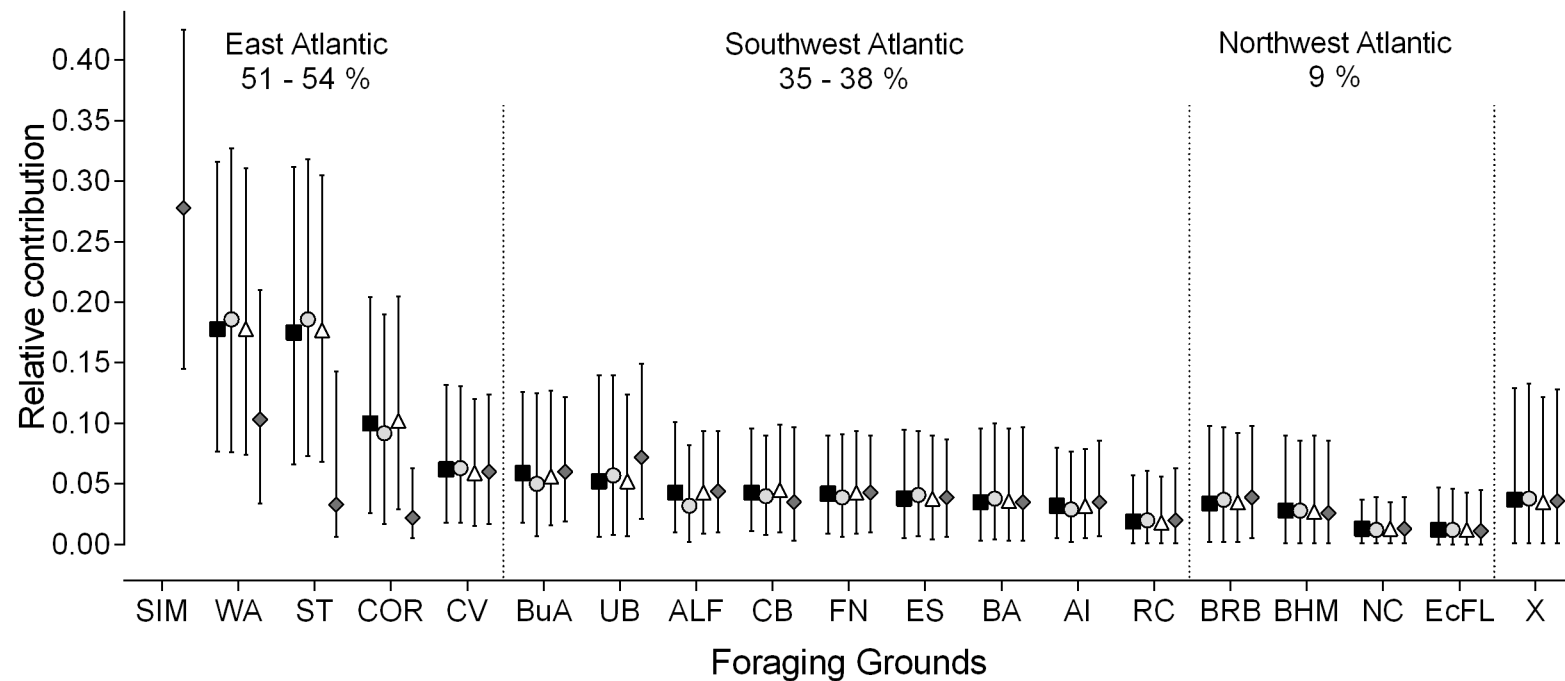


Figure S1. Comparison of mean contributions and 95% confidence intervals from Poilão rookery (West Africa) to 17 green turtle Atlantic foraging aggregations, estimated through a many-to-many mixed stock analysis, using different simulated datasets against the actual dataset - black squares. Grey circle – including a rare haplotype (Cm-A42) found at Poilão in Ascension Island sample, white triangle – including CM-A42 in Costa Rica sample, and grey diamond – adding a putative foraging ground fixed for haplotype CM-A8 (n = 99). SIM: simulated foraging ground, WA: ‘Western Africa’ – Liberia to Benin, ST: Sao Tome, COR: Corisco Bay, CV: Cape Verde, BuA: Buenos Aires, UB: Ubatuba, ALF: Almofala, CB: Cassino Beach, FN: Fernando de Noronha, ES: Espírito Santo, BA: Bahia, AI: Arvoredo Island, RC: Rocas Atol, BRB: Barbados, BHM: Bahamas, NC: North Carolina, EcFL: East central Florida. Dashed lines separate geographic regions.

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