Sea turtles in the South-West Atlantic Region

MTSG Annual Regional Report 2020

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REGIONAL OVERVIEW

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1. RMU: *Caretta caretta* – Southwest Atlantic

1.1 Distribution, abundance, trends

1.1.1 Nesting sites

All the rookeries are located in Brazil. There are 22 nesting sites (Table 1- Main Table; Fig. 1) for the South-West Atlantic subpopulation, 13 of them are classified as "major" nesting sites and 9 are as "minor" nesting sites, according to the Table 1 (Main Table). For abundance indexes (e.g. nests, females) please see Table 1 – Main Table. The most recent year for abundance data published across all rookeries was 2013. All except for one nesting site has shown a 70% increase in the number of nests between 2008 - 2013. (BR Table R # 68).

1.1.2 Marine areas

Identified foraging grounds and migratory corridors of loggerhead nesting females tagged in Praia do Forte, Bahia are shown in Fig. 2 (BR Table R # 78). Movement paths and pelagic foraging areas of immature loggerheads satellite-tagged in Elevação do Rio Grande in the SW Atlantic are displayed in Fig. 3 (BR Table R # 1). Dispersal patterns and migratory routes of oceanic stage of yearling loggerhead turtles satellite-tagged in Praia do Forte are shown in Fig. 4 (BR Table R # 82).

1.2 Other biological data

Please see Table 1- Main Table.

1.3 Threats

1.3.1 Nesting sites

Please see Table 1- Main Table.

1.3.2 Marine areas

Please see Table 1- Main Table.

1.4 Conservation

Protection status: see Table 1 – Main Table for national laws and Table 3 in the country chapters for international conventions. National laws for sea turtle protection are available in Brazil, Argentina and Uruguay. See Table R in the country chapters (BR #190; AR #21; UR #6,7). Long-term governmental and non-governmental programs are listed in Table 4 for each country chapter.

2 RMU: *Dermochelys coriacea* - Southwest Atlantic

2.1 Distribution, abundance, trends

2.1.1 Nesting sites

There are 5 nesting sites, hosting a small population (see Table 1- Main Table). Four among these 5 areas are considered priority nesting beaches in Brazil (BR Table 2; Fig. 1). Even though they are classified as "minor" nesting sites according to the Main Table, they are the only regular nesting areas for the region. Between 1995–1996 and 2003–2004, the annual number of nests increased at about 20.4% per year on average (BR Table R #122).

2.1.2 Marine areas

Movements of satellite tracking leatherbacks tagged in nesting areas (Gabon and Brazil) and on the foraging grounds in the SWA are shown in Fig 5.

2.2 Other biological data

Please see Table 1- Main Table.

2.3 Threats

Please see Table 1- Main Table.

2.4 Conservation

Protection status: see Table 1 – Main Table for national laws and Table 3 in the country chapters for international conventions. National laws for sea turtle protection are available in Brazil, Argentina and Uruguay. See Table R in the country chapters (BR #190; AR #21; UR #6,7). Long-term governmental and non-governmental programs are listed in Table 4 for each country chapter.

3 RMU: *Chelonia mydas* - Southwest Atlantic

3.1 Distribution, abundance, trends

3.1.1 Nesting sites

There are 11 nesting sites (Table 1 – Main Table; Fig. 1). The tree main nesting areas of this RMU are located on oceanic islands. For abundance indexes (e.g. nests or nesting females per year) please see Table 1- Main Table. In Trindade Island, the population remained stable between 1991 and 2008 (BR Table R #101). The average annual number in of nests in the Biological Reserve of Atol das Rocas was approximately the same when comparing the two five-year periods 1990-1994 and 2004-2008 (BR Table R # 92).

3.1.2 Marine areas

Brazil, Argentina and Uruguay host important mixed stock feeding grounds for juvenile, sub-adults and adults green turtles (BR Table R # 163) (UR Table R # 34, 33).

3.2 Other biological data

Please see Table 1- Main Table.

3.3 Threats

3.3.1 Nesting sites

Please see Table 1- Main Table.

3.3.2 Marine areas
Please see Table 1- Main Table.

3.4 Conservation
Protection status: see Table 1 – Main Table for national laws and Table 3 in the country chapters for international conventions. National laws for sea turtle protection are available in Brazil, Argentina and Uruguay. See Table R in the country chapters (BR #190; AR #21; UR #6,7). Long-term governmental and non-governmental programs are listed in Table 4 for each country chapter.

4 RMU: *Chelonia mydas* - Southcentral Atlantic
4.1 Distribution, abundance, trends
4.1.1 Nesting sites
Not apply.

4.1.2 Marine areas
Movement paths and foraging areas of immature green turtles in the SW Atlantic are displayed in Fig. 11 (UR # 34), while distribution of strandings of immature green turtles are showed in Fig. 2 the high concentrations of stranding reflects the coastal foraging areas (UR # 33).

4.2 Other biological data
Please see Table 1.

4.3 Threats
4.3.1 Nesting sites
Not apply.

4.3.2 Marine areas
Please see Table 1

4.4 Conservation
Protection status: see Table 1 for national laws (UR # 6,7).

4.5 Research
Key knowledge gaps about currently bycatch numbers by artisanal and industrial Uruguayan fleet and other international fleet operating in the area.

5 RMU: *Eretmochelys imbricata* – Southwest Atlantic
5.1 Distribution, abundance, trends
5.1.1 Nesting sites
There are 15 nesting sites (Table 1 – Main Table; Fig. 1). The five main nesting areas are located in the northeast of Bahia and Rio Grande do Norte. For abundance indexes (e.g. nests or nesting females per year) please see Table 1- Main Table. All index nesting sites have positive trends (BR Table R # 135;124).

5.1.2 Marine areas

Identified foraging grounds and migratory corridors of hawksbill nesting females tagged in Bahia are shown in Fig. 6 (BR Table R # 78) and Fig. 7 (BR Table R#65). Reported feeding areas are: the Fernando de Noronha National Marine Park, Abrolhos National Marine Park, Biological Reserve of Atol das Rocas and Ilha do Arvoredo. Juveniles tagged in Atol das Rocas were later recorded nesting in Bahia, Brazil (Itacimirim and Ilhéus), Rio Grande do Norte (Pipa) and in Barbados (BR Table R#74; Fig. 8). Records for this specie in Uruguayan waters are rare and sparse. (UR Table R # 33).

5.2 Other biological data

Please see Table 1- Main Table.

5.3 Threats

Please see Table 1- Main Table.

5.4 Conservation

Protection status: see Table 1 – Main Table for national laws and Table 3 in the country chapters for international conventions. National laws for sea turtle protection are available in Brazil, Argentina and Uruguay. See Table R in the country chapters (BR #190; AR #21; UR #6,7). Long-term governmental and non-governmental programs are listed in Table 4 for each country chapter.

6 RMU: *Lepidochelys olivacea* - West Atlantic

6.1 Distribution, abundance, trends

6.1.1 Nesting sites

There are 18 olive ridley nesting sites (Table1 – Main Table; Fig. 1), nine of them are classified as “major” nesting areas, according to Table 1 – Main Table. For abundance indexes (e.g. nests or nesting females per year) please see Table 1 – Main Table. The most recent year for abundance data published across all rookeries (13 nesting sites) was 2013. All index nesting sites have positive trends (BR Table R # 129;136).

6.1.2 Marine areas

Feeding grounds are situated along neritic waters in N/NE Brazil off the states of Pará, Rio Grande do Norte, Pernambuco, Alagoas, and S/SE Brazil off Espírito Santo, Rio de Janeiro, São Paulo and Paraná. Also, oceanic foraging areas were identified off Cape Verde, Senegal, Gambia, Guinea-Bissau and Sierra Leone in northwestern Africa (BR Table R# 83, # 225; Fig. 9, Fig. 10). Records for this specie in Uruguayan waters are rare and sparse. (UR Table R # 15, 33).

6.1.3 Other biological data

Please see Table 1.

6.2 Threats

Please see Table 1- Main Table.

6.3 Conservation

Protection status: see Table 1 – Main Table for national laws and Table 3 in the country chapters for international conventions. National laws for sea turtle protection are available in Brazil, Argentina and Uruguay. See Table R in the country chapters (BR #190; AR #21; UR #6,7). Long-term governmental and non-governmental programs are listed in Table 4 for each country chapter.

7 RMU: *Dermochelys coriacea*-new Atlantic

7.1 Distribution, abundance, trends

7.1.1 Nesting sites

There is only one known recently discovered nesting site around the Parnaíba Delta in the states of Piauí and possibly Maranhão, with about 80 km of beach, hosting a small population (Table R #203) (Tables 1, 2). There is evidence of regular annual nestings in the area, but no abundance indexes (e.g. nests, females) are available (Table 1; Table R # 203)

7.1.2 Marine areas

Only one nesting female has been so far satellite-tracked for her post nesting movements; this female went northwards up to a point in the North Atlantic close to Nova Scotia in Canada (Table R # 203).

7.2 Other biological data

Please see Table 1.

7.3 Threats

Please see Table 1.

7.4 Conservation

Protection status: please see Table 1 for national laws (Table R # 190) and Table 3 for international conventions. Long-term governmental and non-governmental programs are listed in Table 4.

7.5 Research

An article about this population is being written, to be submitted to an international journal for publication.

Table 1.

RMU (all RMUs of all species occurring in a Country or Region) add or remove columns on the right according to the RMUs	**CC-SW ATL**	**Country Chapters from which the info is taken**	**DC-SW ATL**	**Country Chapters from which the info is taken**	**CM-SW ATL**	**Country Chapters from which the info is taken**	**CM-SCATL**	**Country Chapters from which the info is taken**	**EI-SW ATL**	**Country Chapters from which the info is taken**	**LO-SW ATL**	**Country Chapters from which the info is taken**	**DC-new ATL**	**Country Chapters from which the info is taken**
Occurrence														
Nesting sites	Y	Brazil	Y	Brazil	Y	Brazil	N	Uruguay	Y	Brazil	Y	Brazil	Y	Brazil
Pelagic foraging grounds	Y	Brazil, Argentina, Uruguay	Y	Brazil, Argentina, Uruguay	Y	Brazil, Argentina, Uruguay	Y	Uruguay	N	Brazil	Y	Brazil		
Benthic foraging grounds	Y	Brazil, Argentina, Uruguay	Y	Brazil, Uruguay	Y	Brazil, Uruguay	Y	Uruguay	Y	Brazil	Y	Brazil		

Key biological data														
Nests/yr: recent average (range of years)	7540 (2008/09-2012/13)	Brazil	89,8 (2013 - 2017)	Brazil	3600 (1991/92–2008/09)		n/a	Uruguay	1900 (2009 - 2010)	Brazil	6710 (2009-2010)	Brazil		
Nests/yr: recent order of magnitude	7000 - 8000	Brazil	50 - 100 (2013 - 2017)	Brazil	3000 - 4000	Brazil	n/a	Uruguay	2000 - 2500	Brazil	8000 - 9000	Brazil	< 100	Brazil
Number of "major" sites (>20 nests/yr AND >10 nests/km yr)	12	Brazil	0	Brazil	2	Brazil	n/a	Uruguay	5	Brazil	8	Brazil		
Number of "minor" sites (<20 nests/yr OR <10 nests/km yr)	10	Brazil	5 *	Brazil	7	Brazil	n/a	Uruguay	10	Brazil	11	Brazil		
Nests/yr at "major" sites: recent average	570 (2010/2011-	Brazil	69 (2010/2011-	Brazil	1405 (2010/2011-	Brazil	n/a	Uruguay	355 (2010/2011-	Brazil	1050 (2010/2011-	Brazil		

(range of years)	2018/2019)		2018/2019)		2018/2019)				2018/2019)		2018/2019)			
Nests/yr at "minor" sites: recent average (range of years)	180 (2010/2011-2018/2019)	Brazil	3 (2010/2011-2018/2019)	Brazil	18 (2010/2011-2018/2019)	Brazil	n/a	Uruguay	55(2010/2011-2018/2019)	Brazil	70 (2010/2011-2018/2019)	Brazil		
Total length of nesting sites (km)	580	Brazil	160	Brazil	**254	Brazil	n/a	Uruguay	375	Brazil	313	Brazil		
Nesting females / yr	N		N		N		n/a	Uruguay	705 - 791	Brazil	N			
Nests / female season (N)	4.1	Brazil	5 - 6	Brazil	5.2 (775)	Brazil	n/a	Uruguay	2.1-2.6	Brazil	N	Brazil		
Female remigration interval (yrs) (N)	2	Brazil	02-Aug	Brazil	3.5 (142)	Brazil	n/a	Uruguay	2.1	Brazil	N	Brazil		
Sex ratio: Hatchlings (F / Tot) (N)	53-94 (27.697)	Brazil	N	Brazil	N	Brazil	n/a	Uruguay	89-96 (5514)	Brazil	N	Brazil		
Sex ratio: Immatures (F / Tot) (N)	N	Brazil	N	Brazil	N	Brazil	n/a	Uruguay	N	Brazil	N	Brazil		

Sex ratio: Adults (F / Tot) (N)	N	Brazil	N	Brazil	N	Brazil	n/a	Uruguay	N	Brazil	N	Brazil		
Min adult size, CCL or SCL (cm)	79,5 CCL	Brazil	125 CCL	Brazil	89 CCL	Brazil	n/a	Uruguay	74 CCL	Brazil	60 CCL	Brazil		
Age at maturity (yrs)	Y	Brazil	N	Brazil	Y	Brazil	n/a	Uruguay	Y	Brazil	Y	Brazil		
Clutch size (n eggs) (N)	127		87.7	Brazil	120.1	Brazil	n/a	Uruguay	140; 143	Brazil	100.1	Brazil		
Emergence success (hatchlings/ egg) (N)	73,1% & 63,2%; 79,9% & 67,7; 56,7% to 80,88%		66.00%	Brazil	84.40%	Brazil	n/a	Uruguay	61% &51,7%	Brazil	80,2% & 78,7%	Brazil		
Nesting success (Nests/ Tot emergence tracks) (N)					54%	Brazil	n/a	Uruguay						
Trends														
Recent trends (last 20 yrs) at	up	Brazil	up (1998 - 2017)	Brazil	stable	Brazil	n/a	Uruguay	up	Brazil	up	Brazil		

nesting sites (range of years)														
Recent trends (last 20 yrs) at foraging grounds (range of years)	N	Brazil	N	Brazil	up	Brazil	n/a	Uruguay	N	Brazil	N	Brazil		
Oldest documented abundance: nests/yr (range of years)							n/a	Uruguay						
Published studies														
Growth rates	Y	Brazil, Uruguay	Y	Uruguay	Y	Brazil, Uruguay	Y	Uruguay	Y	Brazil	Y	Brazil		
Genetics	Y	Brazil, Uruguay, Argentina	Y	Brazil, Uruguay, Argentina	Y	Brazil, Uruguay, Argentina	Y	Uruguay	Y	Brazil	Y	Brazil		
Stocks defined by	Y	Brazil, Urugu	Y	Brazil, Urugu	Y	Brazil, Urugu	Y	Uruguay	Y	Brazil	Y	Brazil		

genetic markers		ay, Argentina		ay, Argentina		ay, Argentina								
Origin of mixed stocks	Y	Brazil	Y	Brazil	Y	Brazil	Y	Uruguay	Y	Brazil	N	Brazil		
Remote tracking (satellite or other)	Y	Brazil, Uruguay, Argentina	Y	Brazil, Uruguay, Argentina	Y	Brazil, Uruguay, Argentina	Y	Uruguay	Y	Brazil	Y	Brazil		
Survival rates	N	Brazil, Uruguay, Argentina	N	Brazil, Uruguay, Argentina	Y	Brazil, Uruguay	Y	Uruguay	N	Brazil	N	Brazil		
Population dynamics	Y	Uruguay	N	Uruguay	Y	Brazil, Uruguay	Y	Uruguay	Y	Brazil	N	Brazil		
Foraging ecology (diet or isotopes)	Y	Brazil, Uruguay	Y	Brazil, Uruguay	Y	Brazil, Uruguay, Argentina	Y	Uruguay	Y	Brazil	Y	Brazil		
Capture-Mark-Recapture	Y	Brazil, Uruguay	Y	Brazil, Argentina	Y	Brazil, Uruguay	Y	Uruguay	Y	Brazil	Y	Brazil		
Threats														

Bycatch: presence of small scale / artisanal fisheries?	Y	Brazil, Uruguay, Argentina	Y	Brazil, Uruguay, Argentina	Y	Brazil, Uruguay, Argentina	Y	Uruguay	Y (SN; PN; OTH (corrals))	Brazil	Y (SN; OTH (corrals))	Brazil		
Bycatch: presence of industrial fisheries?	Y	Brazil, Uruguay, Argentina	Y	Brazil, Uruguay, Argentina	Y	Brazil, Uruguay, Argentina	Y	Uruguay	Y (SN)	Brazil	Y (PLL; ST)	Brazil		
Bycatch: quantified?	Y	Brazil, Uruguay	Y	Brazil, Uruguay	Y	Brazil, Uruguay	Y	Uruguay	Y	Brazil	Y (PLL)	Brazil		
Take. Intentional killing or exploitation of turtles	N	Brazil, Uruguay, Argentina	N	Brazil, Uruguay, Argentina	Y	Brazil, Uruguay	Y	Uruguay	Y	Brazil	N	Brazil		
Take. Egg poaching	Y	Brazil	N	Brazil	Y	Brazil	n/a	Uruguay	Y	Brazil	Y	Brazil		
Coastal Development. Nesting habitat degradation	Y	Brazil	Y	Brazil	Y	Brazil	n/a	Uruguay	Y	Brazil	Y	Brazil		
Coastal Development.	Y	Brazil	Y	Brazil	Y	Brazil	n/a	Uruguay	Y	Brazil	Y	Brazil		

Photopollution														
Coastal Development. Boat strikes	N	Brazil, Uruguay, Argentina	N	Brazil, Uruguay, Argentina	Y	Uruguay	Y	Uruguay	N	Brazil	N	Brazil		
Egg predation	Y	Brazil	N	Brazil	Y	Brazil	n/a	Uruguay	Y	Brazil	Y	Brazil		
Pollution (debris, chemical)	Y	Brazil	Y	Brazil	Y	Brazil	Y	Uruguay	N	Brazil	N	Brazil		
Pathogens	Y	Brazil	N	Brazil, Uruguay, Argentina	Y	Brazil, Uruguay	Y	Uruguay	Y	Brazil	Y	Brazil		
Climate change	Y	Brazil	N	Brazil, Uruguay, Argentina	N	Brazil, Uruguay, Argentina	N	Uruguay	Y	Brazil	N	Brazil		
Foraging habitat degradation	N	Brazil, Uruguay, Argentina	N	Brazil, Uruguay, Argentina	Y	Brazil, Uruguay	Y	Uruguay	N	Brazil	N	Brazil		
Other	Y	Brazil, Argentina	Y	Brazil, Uruguay	Y	Brazil, Uruguay	Y	Uruguay	N	Brazil	Y	Brazil		

Long-term projects (>5yrs)														
Monitoring at nesting sites (period: range of years)	Y (1982-ongoing)	Brazil	Y (1982-ongoing)	Brazil	Y (1982-ongoing)	Brazil	n/a	Uruguay	Y (1982-ongoing)	Brazil	Y (1982-ongoing)	Brazil	Y (2007-ongoing)	Brazil
Number of index nesting sites	6	Brazil	2	Brazil	2	Brazil	n/a	Uruguay	5	Brazil	3	Brazil		
Monitoring at foraging sites (period: range of years)	Y	Brazil, Uruguay, Argentina	Y	Brazil, Uruguay, Argentina	Y	Brazil, Uruguay, Argentina	Y	Uruguay	Y	Brazil	Y	Brazil		
Conservation														
Protection under national law	Y	Brazil, Uruguay, Argentina	Y	Brazil, Uruguay, Argentina	Y	Brazil, Uruguay, Argentina	Y	Uruguay	Y	Brazil	Y	Brazil	Y	Brazil
Number of protected nesting sites	100%	Brazil	100%	Brazil	100%	Brazil	n/a	Uruguay	100%	Brazil	100%	Brazil	100%	Brazil

(habitat preservation) (% nests)														
Number of Marine Areas with mitigation of threats	0	Brazil, Uruguay, Argentina	0	Brazil, Uruguay, Argentina	2	Uruguay	2	Uruguay	0	Brazil	0	Brazil		
N of long-term conservation projects (period: range of years)	>1 (1982-ongoing)	Brazil	>1 (1982-ongoing)	Brazil	>1 (1981-ongoing)	Brazil	1	Uruguay	>1 (1982-ongoing)	Brazil	>1 (1982-ongoing)	Brazil	1 (2007-0ngoing)	Brazil
In-situ nest protection (eg cages)	Y	Brazil	Y	Brazil	N	Brazil	n/a	Uruguay	Y	Brazil	Y	Brazil		
Hatcheries	Y	Brazil	Y	Brazil	N	Brazil	n/a	Uruguay	Y	Brazil	Y	Brazil		
Head-starting	N	Brazil	N	Brazil	N	Brazil	n/a	Uruguay	N	Brazil	N	Brazil		
By-catch: fishing gear modifications (eg, TED, circle hooks)	Y	Brazil, Uruguay	Y	Brazil, Uruguay]	N	Brazil, Uruguay, Argentina	N	Uruguay	N	Brazil	N	Brazil		
By-catch: onboard	Y	Uruguay,	Y	Argentina	Y	Argentina	n/a	Uruguay	N	Brazil	N	Brazil		

best practices		Argentina												
By-catch: spatio-temporal closures/reduction	Y	Argentina	Y	Argentina	Y	Argentina	N	Uruguay	N	Brazil	Y	Brazil		
Other														
* as principais praias de DC no brasil não atendem a este critério, porém são as únicas com desovas regulares														
** low density green turtle nesting beaches, the 3 main nesting areas of this RMU are located in the oceanic islands														

Figures

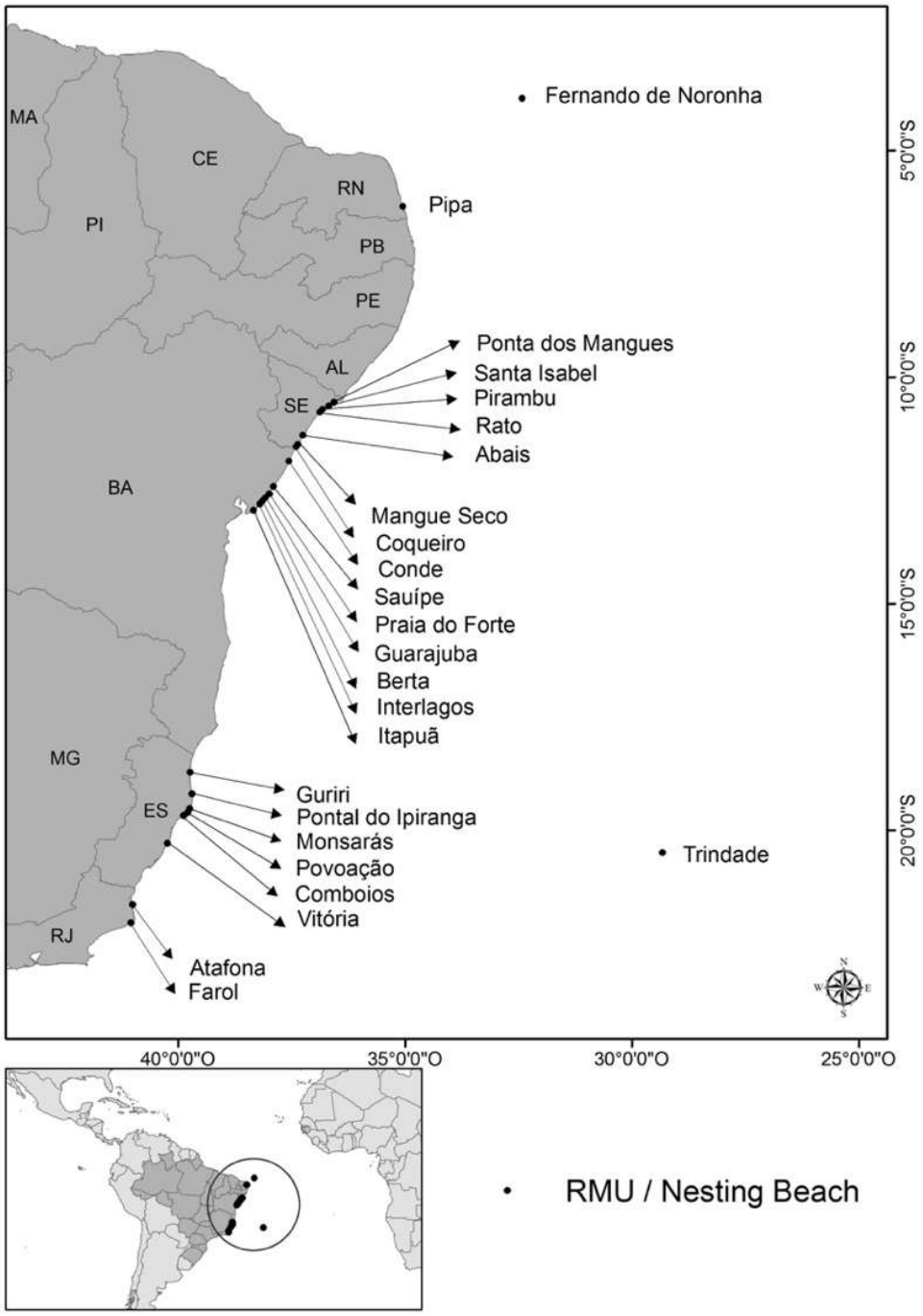

Figure 1. Brazilian Nesting Sites

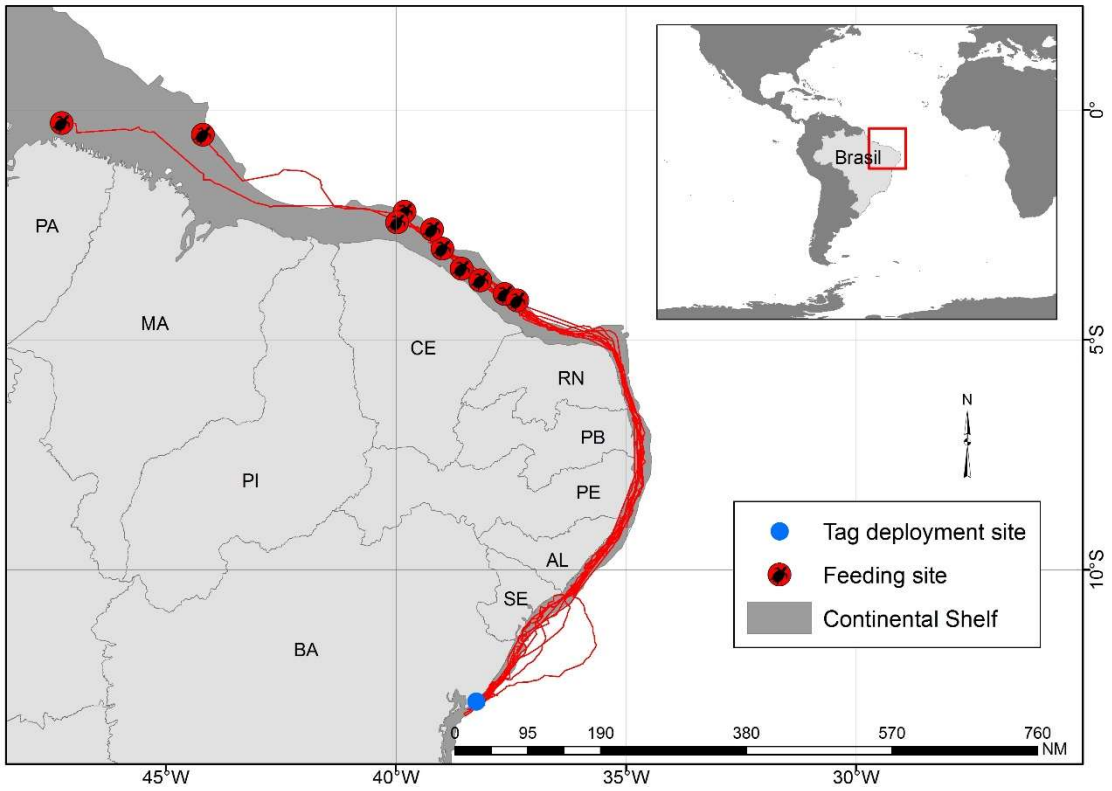

Figure 2. Post-nesting migrations and feeding grounds of 10 loggerhead female turtles satellite-tracked from nesting beaches along the northern coast of Bahia, Brazil (BR Table R #78)

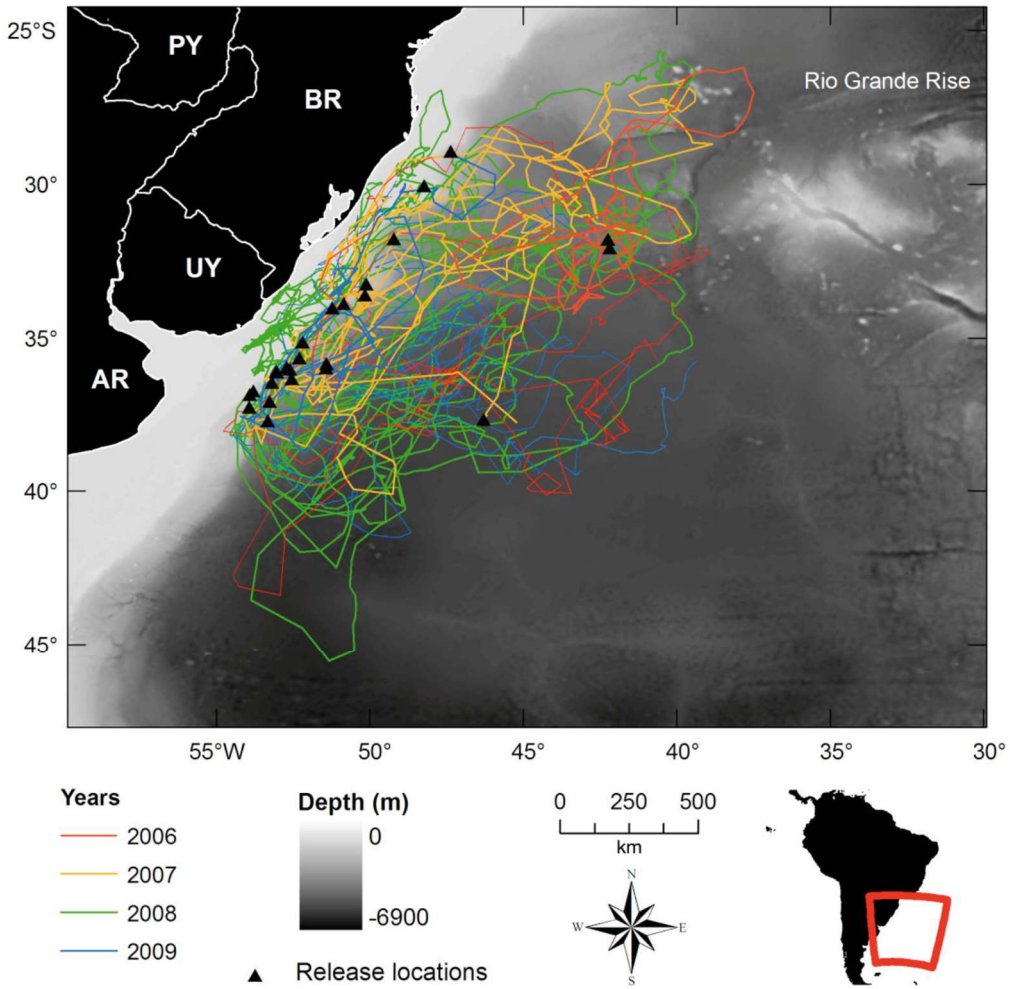

Figure 3. Movement paths of 26 immature loggerheads in the SW Atlantic Ocean between 2006 and 2010. (BR Table R #1)

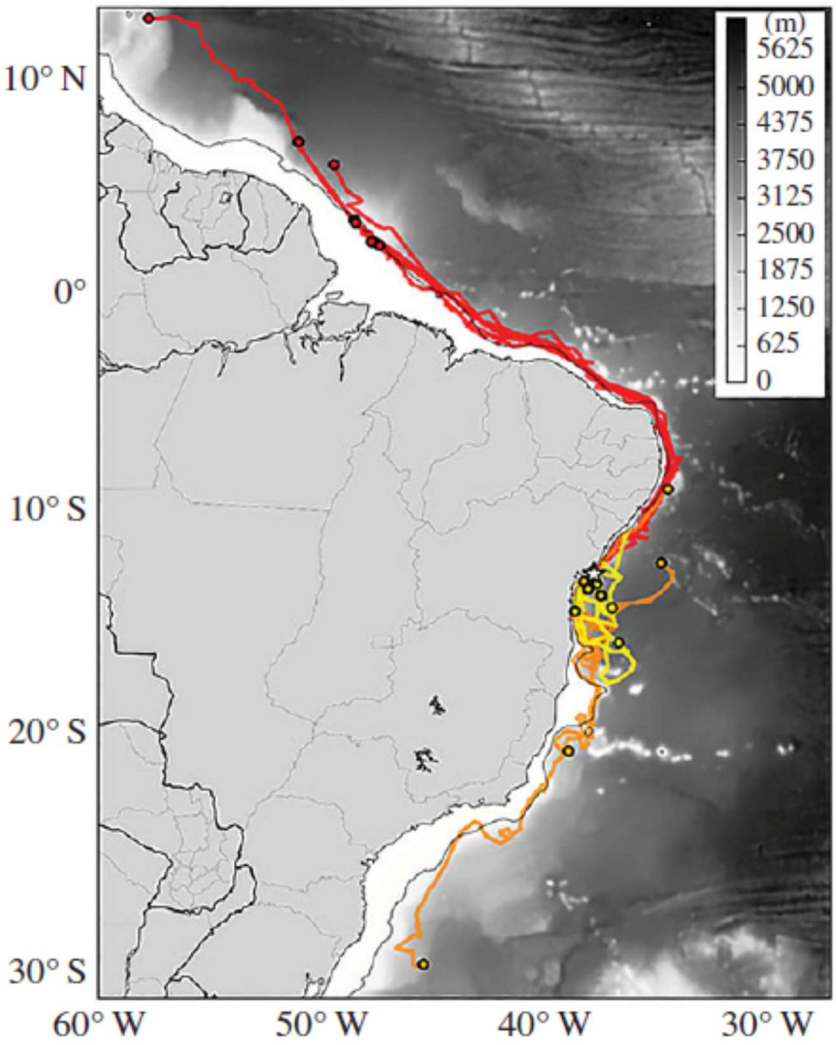

Figure 4. Satellite tracks of 19 yearling loggerhead sea turtles released from Praia do Forte, Bahia, Brazil. (BR Table R #82)

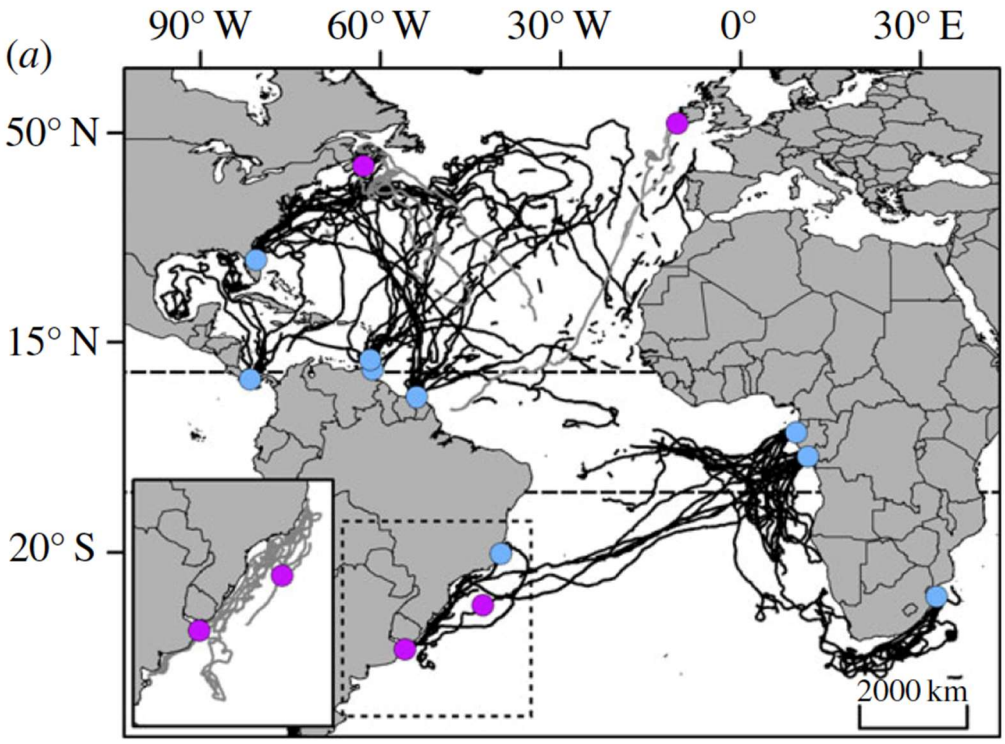

Figure 5. Movements of satellite-tracked leatherbacks during their migration in the Atlantic Ocean, between 1995 and 2010. Black lines: movements of females tagged on the nesting beach. Grey lines: movements of individuals tagged near presumed foraging grounds; Blue dots: deployment from a nesting site; Purple dots: deployment at. Inset: movements of six individuals tagged on their foraging grounds in the southwestern Atlantic. (BR Table R #82; AR Table R #5; UR Table R #13)

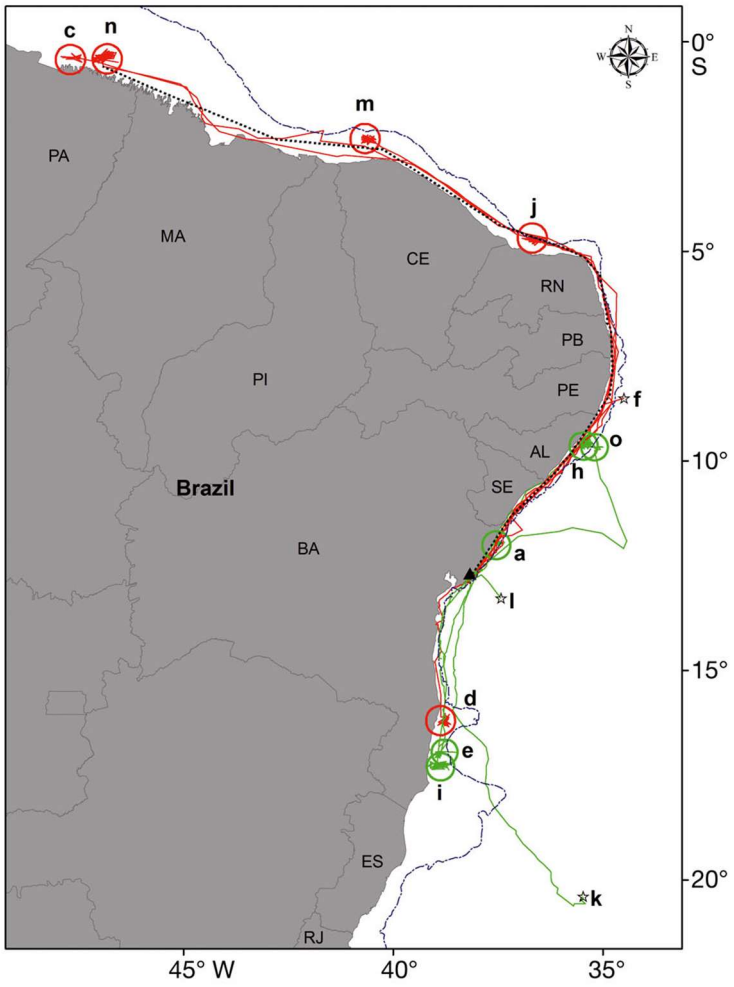

Figure 6. Migratory paths and foraging areas of hawksbill turtles satellite-tracked from nesting grounds in northern Bahia, Brazil (n = 15). Lower case letters: individual turtles; circles: foraging areas (green: hawksbills; red: hawksbill-loggerhead hybrids. (BR Table R #81)

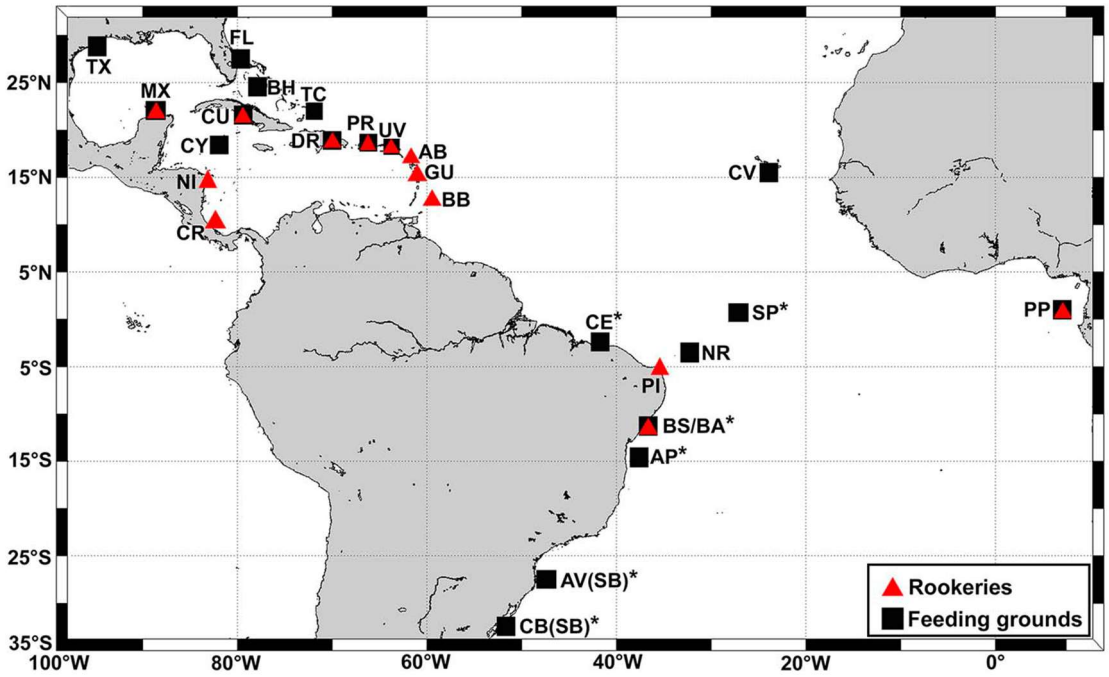

Figure 7. Locations of genetically described hawksbill populations in the Atlantic, rookeries (red triangles) and feeding grounds (black squares). (BR Table R #65)

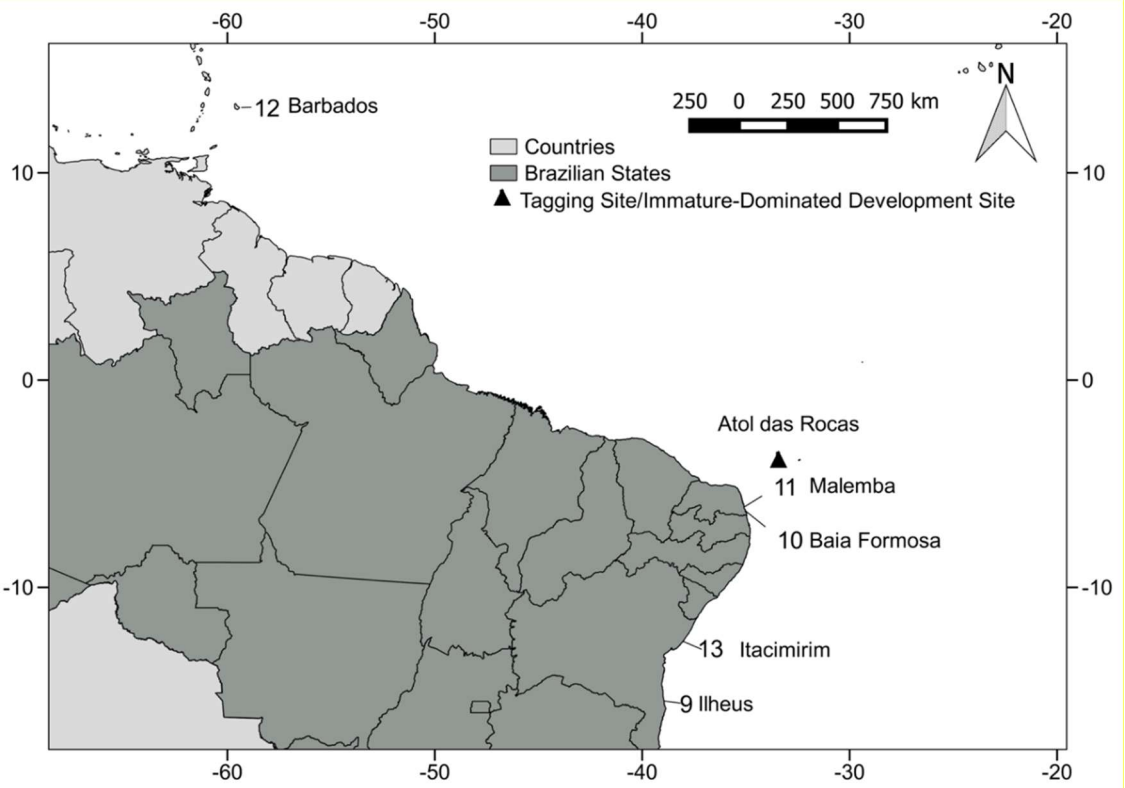

Figure 8. Nesting beach locations for five hawksbills (*Eretmochelys imbricata*) originally tagged as juveniles in Atol das Rocas, Brazil. Numbers correspond to nesting beaches. (BR Table R #74)

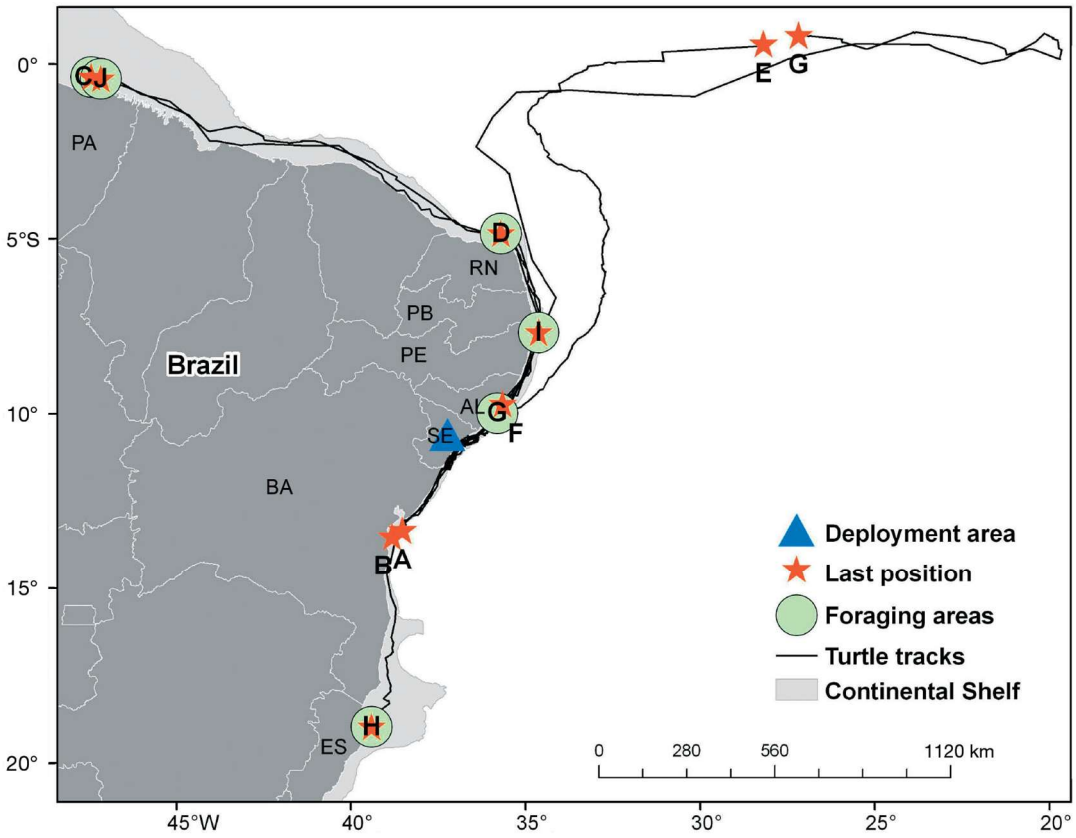

Figure 9. Post-nesting movements of olive ridley turtles satellite tracked from their nesting grounds in Sergipe. (BR Table R #83)

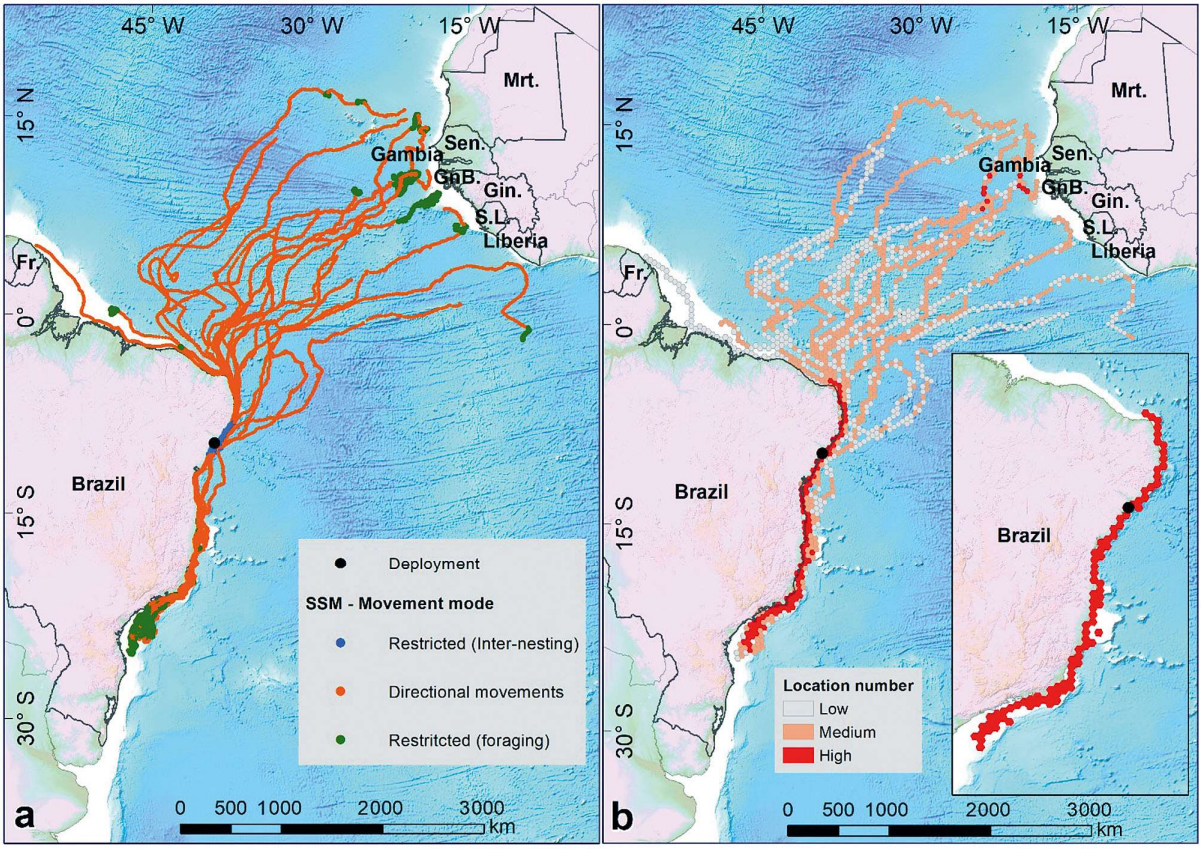

Figure 10. Olive ridley post-reproductive displacement. (a) State-space model predicted behavior; (b) weighted point density per 25 km hexagon (Table R #225)

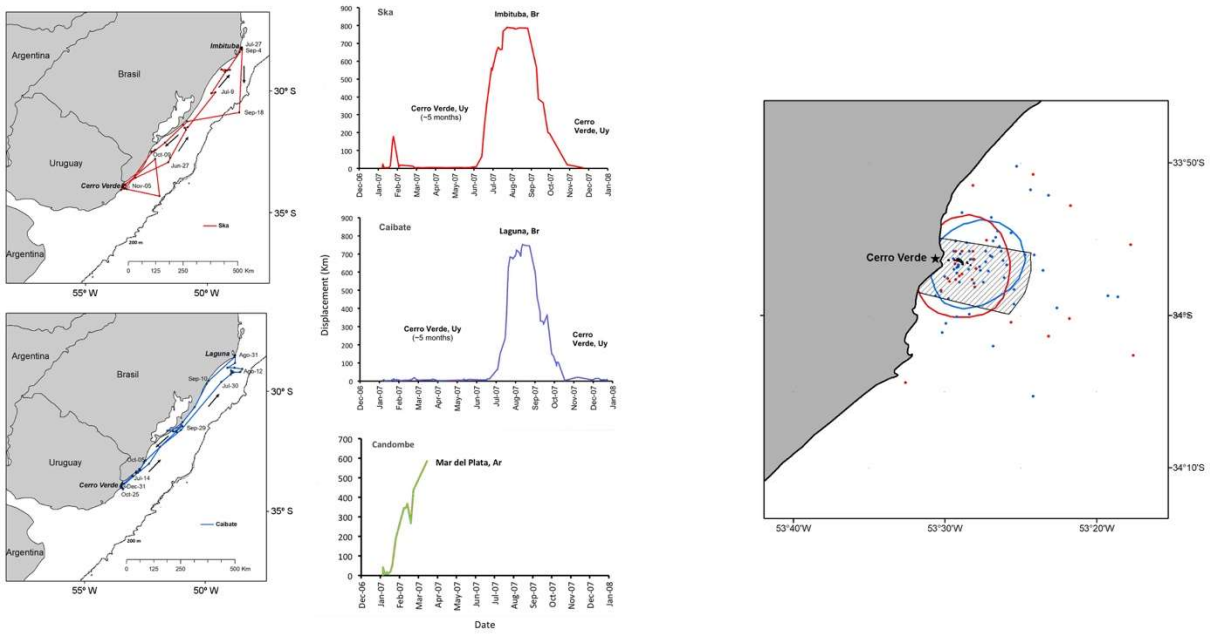

Figure 11. Displacement from released site plot of the three tracked green turtle. The left panels (A and B) show the tracks of those turtles that performed a round-trip migration between summer and winter foraging areas in Uruguay and Brazil respectively. The three right panels (C, D and E) show distance to the release point through time. Phases of migration are represented by rapid changes in displacement distance; summer and winter foraging areas are revealed by plateaus. Left panels: Right Panel: Turtle's positions and core-use areas (50% KDE contours) for the two green turtles that remained for several months at the CMPA of Cerro Verde and Coronilla islands.Taken from Vélez-Rubio et al. 2018.

ARGENTINA

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1 RMU: CC-SW ATL

1.1 Distribution, abundance, trends

1.1.1 Nesting sites

Not apply

1.1.2 Marine áreas

Movement paths and pelagic foraging areas of immature loggerheads in Argentinian waters Fig. 1 (Table R# 11) and the Fig. 2 show seasonal habitat use of six individuals of immature loggerheads (Table R # 6).

1.2 Other biological data

Please see Table 1.

1.3 Threats

1.3.1 Nesting sites

Not apply

1.3.2 Marine areas

Please see Table 1 and Figure 3 (Table R# 19).

1.4 Conservation

Protection status: see Table 1 for national laws ((Table R # 16) and Table 2 for international conventions.

The PRICTMA (Programa Regional de Investigación y Conservación de Tortugas Marinas) has been working on monitoring and conservation since 2003.

1.5 Research

Key knowledge gaps about currently bycatch numbers by artisanal and industrial Argentinian fleet and other international fleet operating in the area.

2 RMU: DC-SW ATL

2.1 Distribution, abundance, trends

2.1.1 Nesting sites

Not apply

2.1.2 Marine áreas

Movement paths and pelagic foraging areas of adult leatherback turtles in the SW Atlantic are displayed in Fig. 1 (Table R # 11). The Fig. 4 show density distribution of satellite-tracked leatherbacks and trawl fishing-pressure in the Atlantic Ocean (Table R # 17).

2.2 Other biological data
Please see Table 1.

2.3 Threats
2.3.1 Nesting sites
Not apply.

2.3.2 Marine areas
Please see Table 1 and Figure 3 (Table R# 19).

2.4 Conservation
Protection status: see Table 1 for national laws ((Table R # 16) and Table 2 for international conventions.
The PRICTMA (Programa Regional de Investigación y Conservación de Tortugas Marinas) has been working on monitoring and conservation since 2003.

2.5 Research
Key knowledge gaps about currently bycatch numbers by artisanal and industrial Argentinian fleet and other international fleet operating in the area.

3 RMU: CM-SW ATL
3.1 Distribution, abundance, trends
3.1.1 Nesting sites
Not apply.

3.1.2 Marine áreas
Movement paths and pelagic foraging areas of immature green turtle in Argentinian waters Fig. 1 (Table R# 11) and the Fig. 2 show seasonal habitat use (Table R # 10).

3.2 Other biological data
Please see Table 1.

3.3 Threats
3.3.1 Nesting sites
Not apply.

3.3.2 Marine areas
Please see Table 1 and Figure 3 (Table R# 19).

3.4 Conservation
Protection status: see Table 1 for national laws ((Table R # 16) and Table 2 for international conventions.
The PRICTMA (Programa Regional de Investigación y Conservación de Tortugas Marinas) has been working on monitoring and conservation since 2003.

3.5 Research
Key knowledge gaps about currently bycatch numbers by artisanal and industrial Argentinian fleet and other international fleet operating in the area.

4 RMU: CC-SW ATL

4.1 Distribution, abundance, trends

4.1.1 Nesting sites

Not apply

4.1.2 Marine áreas

Movement paths and pelagic foraging areas of immature loggerheads in Argentinian waters Fig. 1 (Table R# 11) and the Fig. 2 show seasonal habitat use of six individuals of immature loggerheads (Table R # 6).

4.2 Other biological data

Please see Table 1.

4.3 Threats

4.3.1 Nesting sites

Not apply

4.3.2 Marine areas

Please see Table 1 and Figure 3 (Table R# 19).

4.4 Conservation

Protection status: see Table 1 for national laws ((Table R # 16) and Table 2 for international conventions.

The PRICTMA (Programa Regional de Investigación y Conservación de Tortugas Marinas) has been working on monitoring and conservation since 2003.

1.5 Research

Key knowledge gaps about currently bycatch numbers by artisanal and industrial Argentinian fleet and other international fleet operating in the area.

5 RMU: DC-SW ATL

5.1 Distribution, abundance, trends

5.1.1 Nesting sites

Not apply

5.1.2 Marine áreas

Movement paths and pelagic foraging areas of adult leatherback turtles in the SW Atlantic are displayed in Fig. 1 (Table R # 11). The Fig. 4 show density distribution of satellite-tracked leatherbacks and trawl fishing-pressure in the Atlantic Ocean (Table R # 17).

5.2 Other biological data

Please see Table 1.

5.3 Threats

5.3.1 Nesting sites

Not apply.

5.3.2 Marine areas

Please see Table 1 and Figure 3 (Table R# 19).

5.4 Conservation

Protection status: see Table 1 for national laws ((Table R # 16) and Table 2 for international conventions. The PRICTMA (Programa Regional de Investigación y Conservación de Tortugas Marinas) has been working on monitoring and conservation since 2003.

5.5 Research

Key knowledge gaps about currently bycatch numbers by artisanal and industrial Argentinian fleet and other international fleet operating in the area.

Tables:

Table 1

RMU	CC-NW IND	Ref #	CM-NW IND	Ref #	DC-SW IND	Ref #
Occurrence						
Nesting sites	N	0	N		n/a	0
Pelagic foraging grounds	JA	1, 6,7,11,12,15,18	J	1,7, 10,11,12,18	A	1,2,4,7,11, 12,18
Benthic foraging grounds	N	3	N		N	
Key biological data						
Nests/yr: recent average (range of years)	n/a		n/a		n/a	
Nests/yr: recent order of magnitude	n/a		n/a		n/a	
Number of "major" sites (>20 nests/yr AND >10 nests/km yr)	n/a		n/a		n/a	
Number of "minor" sites (<20 nests/yr OR <10 nests/km yr)	n/a		n/a		n/a	
Nests/yr at "major" sites: recent average (range of years)	n/a		n/a		n/a	
Nests/yr at "minor" sites: recent average (range of years)	n/a		n/a		n/a	
Total length of nesting sites (km)	n/a		n/a		n/a	
Nesting females / yr	n/a		n/a		n/a	
Nests / female season (N)	n/a		n/a		n/a	
Female remigration interval (yrs) (N)	n/a		n/a		n/a	
Sex ratio: Hatchlings (F / Tot) (N)	n/a		n/a		n/a	
Sex ratio: Immatures (F / Tot) (N)	n/a		n/a		n/a	
Sex ratio: Adults (F / Tot) (N)	n/a		n/a		n/a	

Min adult size, CCL or SCL (cm)	n/a		n/a		n/a	
Age at maturity (yrs)	n/a		n/a		n/a	
Clutch size (n eggs) (N)	n/a		n/a		n/a	
Emergence success (hatchlings/egg) (N)	n/a		n/a		n/a	
Nesting success (Nests/ Tot emergence tracks) (N)	n/a		n/a		n/a	
Trends						
Recent trends (last 20 yrs) at nesting sites (range of years)	n/a		n/a		n/a	
Recent trends (last 20 yrs) at foraging grounds (range of years)	n/a		n/a		n/a	
Oldest documented abundance: nests/yr (range of years)	n/a		n/a		n/a	
Published studies						
Growth rates	N		N		N	
Genetics	Y	20	Y	22	Y	21
Stocks defined by genetic markers	Y	20	Y	22	Y	21
Remote tracking (satellite or other)	Y	6,7	Y	7,1	Y	4,7,14
Survival rates	N		N		N	
Population dynamics	N		N		N	
Foraging ecology (diet or isotopes)	Y	12	Y	9,12	Y	12,19
Capture-Mark-Recapture	N		N		Y	2
Threats						
Bycatch: presence of small scale / artisanal fisheries?	Y (DN,SN)	3,12	Y	3,12	Y	3,12,19
Bycatch: presence of industrial fisheries?	Y (PT,MT)	3,12, 17	Y (PT,MT)	3,12,17	Y (DLL, MT, PT)	3,5, 12,17,19
Bycatch: quantified?	N	0	N		N	
Take. Intentional killing or exploitation of turtles	N		N		N	
Take. Egg poaching	n/a		n/a		n/a	

Coastal Development. Nesting habitat degradation	n/a		n/a		n/a	
Coastal Development. Photopollution	n/a		n/a		n/a	
Coastal Development. Boat strikes	N		N		N	
Egg predation	n/a		n/a		n/a	
Pollution (debris, chemical)	Y	11,13,15,18	Y	8,11, 18	N	11, 18,23
Pathogens	N		N		N	
Climate change	N		N		N	
Foraging habitat degradation	N		N		N	
Other	Y	13, 15	N		Y	23
Long-term projects						
Monitoring at nesting sites	n/a		n/a		n/a	
Number of index nesting sites	n/a		n/a		n/a	
Monitoring at foraging sites	Y	1,11,18	Y	1,11,18	Y	1,11,18
Conservation						
Protection under national law	Y	16, 24, 25, 26	Y	16, 24, 25, 26	Y	16, 24, 25, 26
Number of protected nesting sites (habitat preservation)	0		0		0	
Number of Marine Areas with mitigation of threats	0		0		0	
Long-term conservation projects (number)	0		0		0	
In-situ nest protection (eg cages)	n/a		n/a		n/a	
Hatcheries	n/a		n/a		n/a	
Head-starting	N		n/a		n/a	
By-catch: fishing gear modifications (eg, TED, circle hooks)	N		N		N	
By-catch: onboard best practices	Y	25	Y	25	Y	25
By-catch: spatio-temporal closures/reduction	Y	26	Y	26	Y	26
Other	N		N		N	

Table 3. Conventions

International Conventions	Signed	Binding	Compliance measured and reported	Species	Conservation actions	Relevance to sea turtles
Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) (National Law 22.344/82)	Y	Y	Y	CM, CC y DC		
Convention on the Conservation of Migratory Species of Wild Animals (CMS) (National Law 23.918/91)	Y	Y	Y	CM, CC y DC		
Ramsar Convention (Ramsar, 1971) (National Law 23.919/91 and 25.335/00)	Y	Y	Y	CM, CC y DC		
International Convention for the Prevention of Pollution from Ships (MARPOL) (National Law 24.089/92)	Y	Y	Y	CM, CC y DC		
Convention on Biological Diversity (CBD) (National Law 24.375/94)	Y	Y	Y	CM, CC y DC		
United Nations Convention on the Law of the Sea (CONVEMAR) (National Law 24.543/95)	Y	Y	Y	CM, CC y DC		
Inter-American Convention for the Protection and Conservation of Sea Turtle (IAC) (National Law 26.600/10)	Y	Y	Y	CM, CC y DC	**National Action Plan for the conservation of sea turtles in Argentina**, which include two Programmes: 1) National Action Programme to reduce the interaction of sea turtles with marine litter; 2) National Action Programme to reduce the interaction of sea turtles with the fisheries.	

Figures

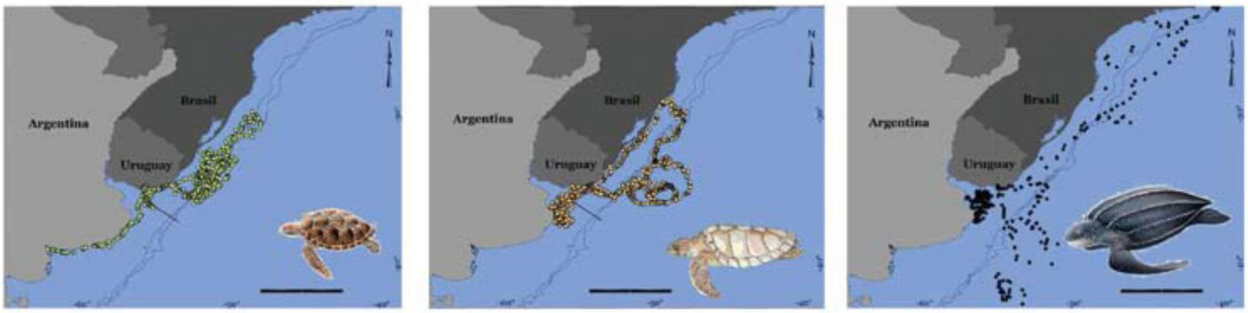

Figure 1. Spatial use of sea turtles tracked in the Southwestern Atlantic Ocean between 2006 and 2010. A) *Chelonia mydas*, B) *Caretta caretta* and C) *Dermochelys coriacea* (Table R#11).

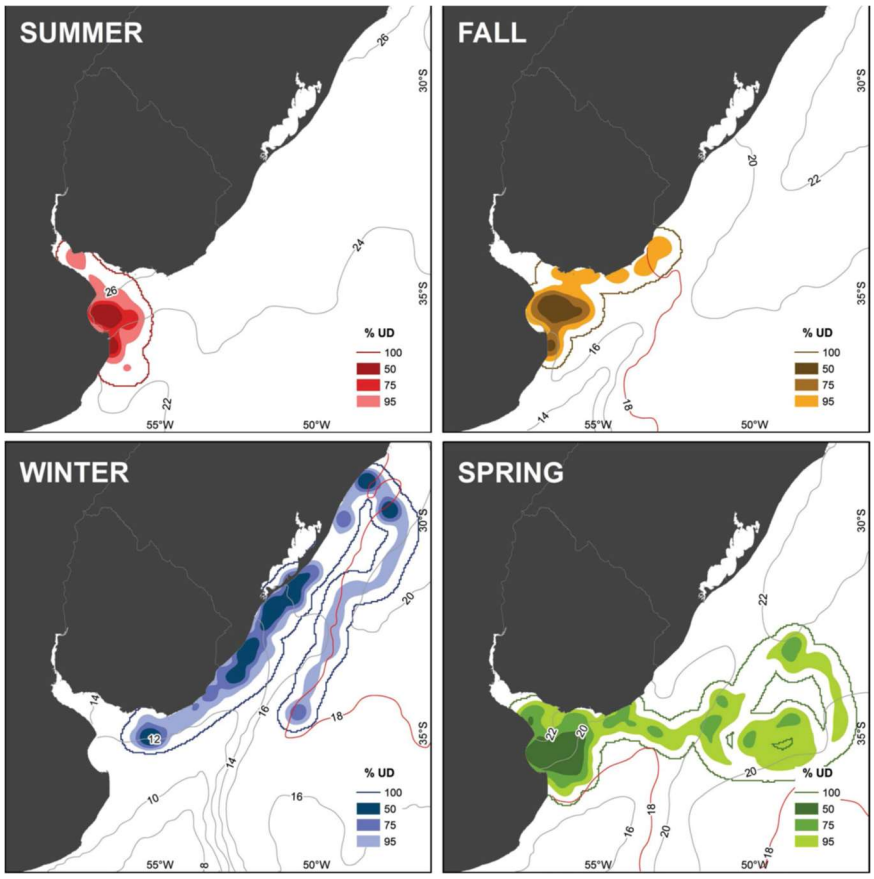

Figure 2. Seasonal habitat use of six individuals of immature loggerheads. The 100 and 50 % utilization distribution (UD) represents the overall home range of the turtle and the core activity areas, respectively. Isotherms of 18 °C are highlighted in red (Table R#6).

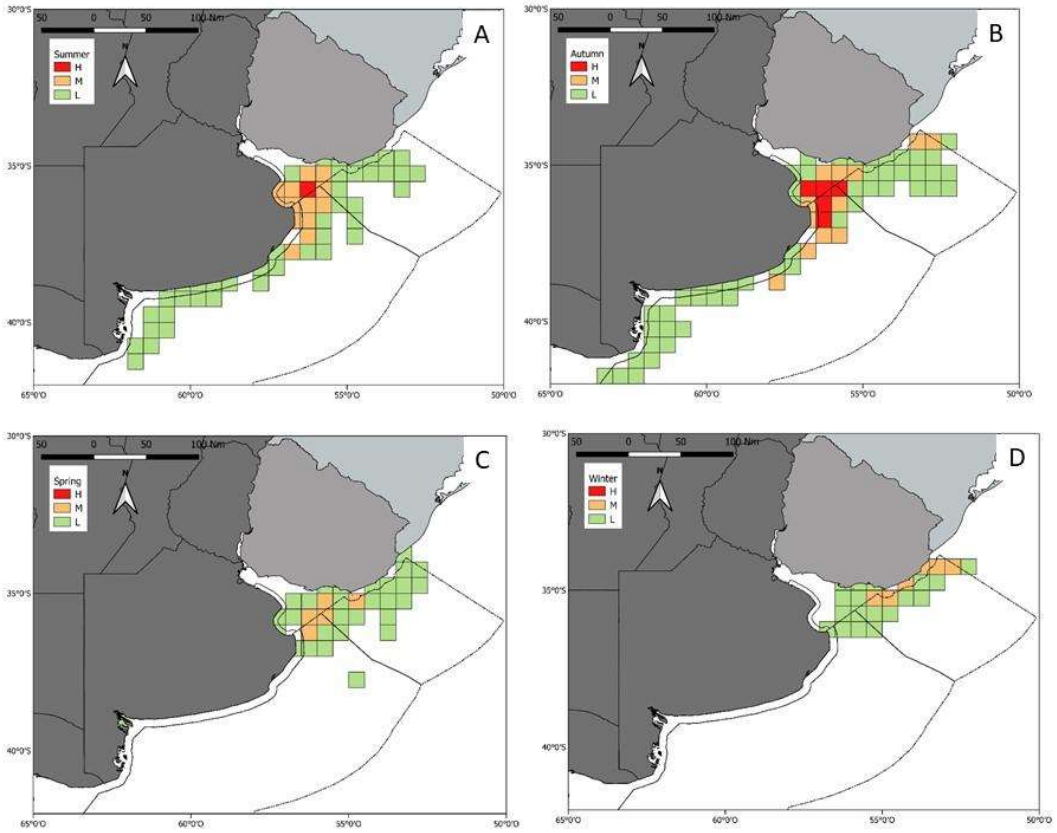

Figure. 3. Susceptibility of sea turtles to bycatch in Argentine and Uruguayan fisheries. These maps show areas of high-fishing-pressure (2006-2017) that overlapped with different sea turtle habitat use (2006-2013) along the CFZ. Dashed grey lines represent the limits of national EEZs. Argentina and Uruguay Exclusive Economic Zones are shown with dashed lines (200 nm) together with State waters shown with full lines (12nm). Dashed areas represent the shared Common Fishing Zone (CFZ). Three density classes were defined: low-, medium- and high-use areas. **A-** Summer; **B-** Autumn; **C-** Winter, **D-** Spring (Table R#19).

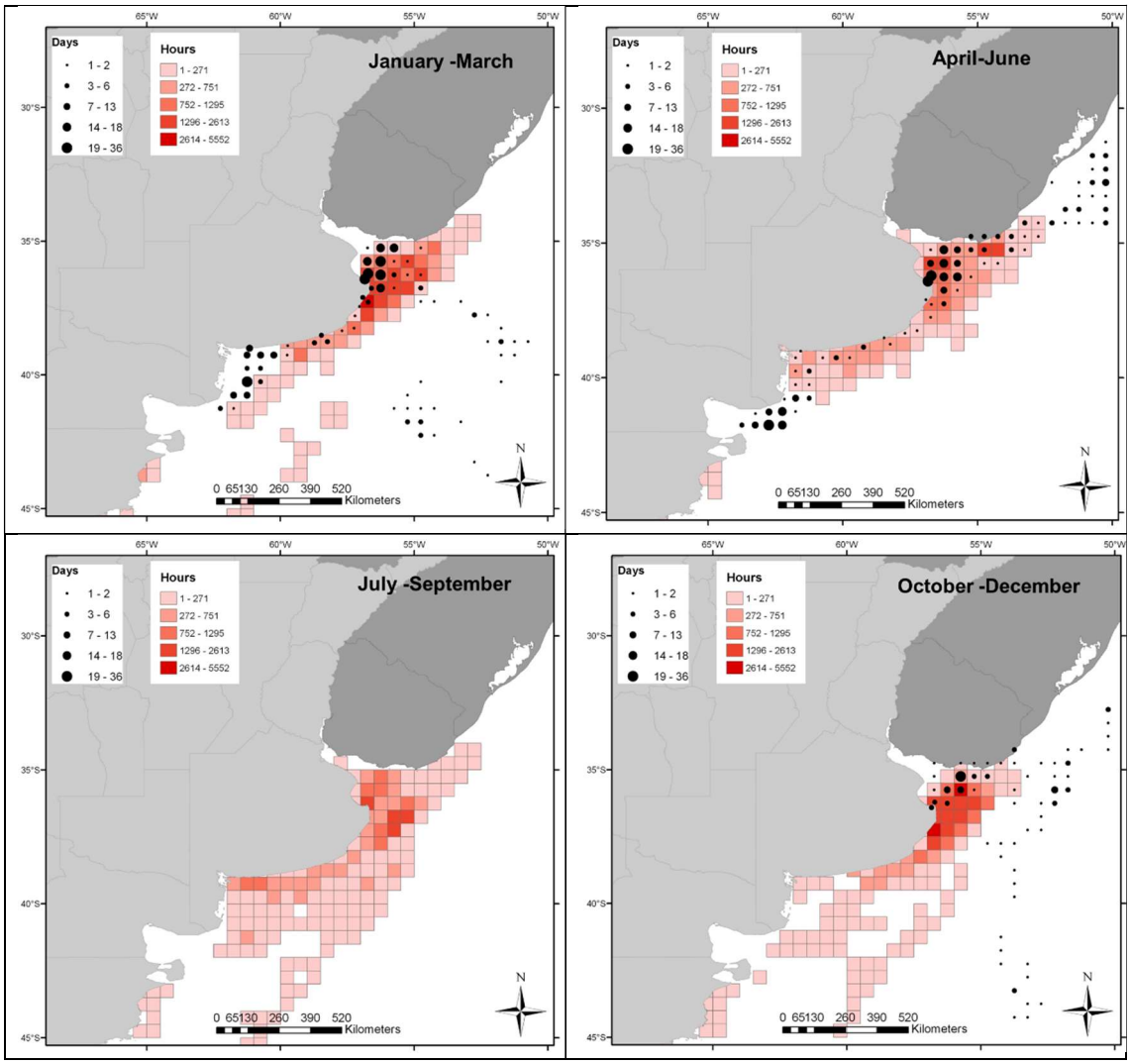

Figure 4. Density distribution of satellite-tracked leatherbacks and trawl fishing-pressure in the Atlantic Ocean. The circles following have time (Days) turtle spent in each cell using a single daily position, reconstructed from their respective routes. The activity of the coastal trawl fleet is represented (red squares) by trawl hour in each cell (Table R#17).

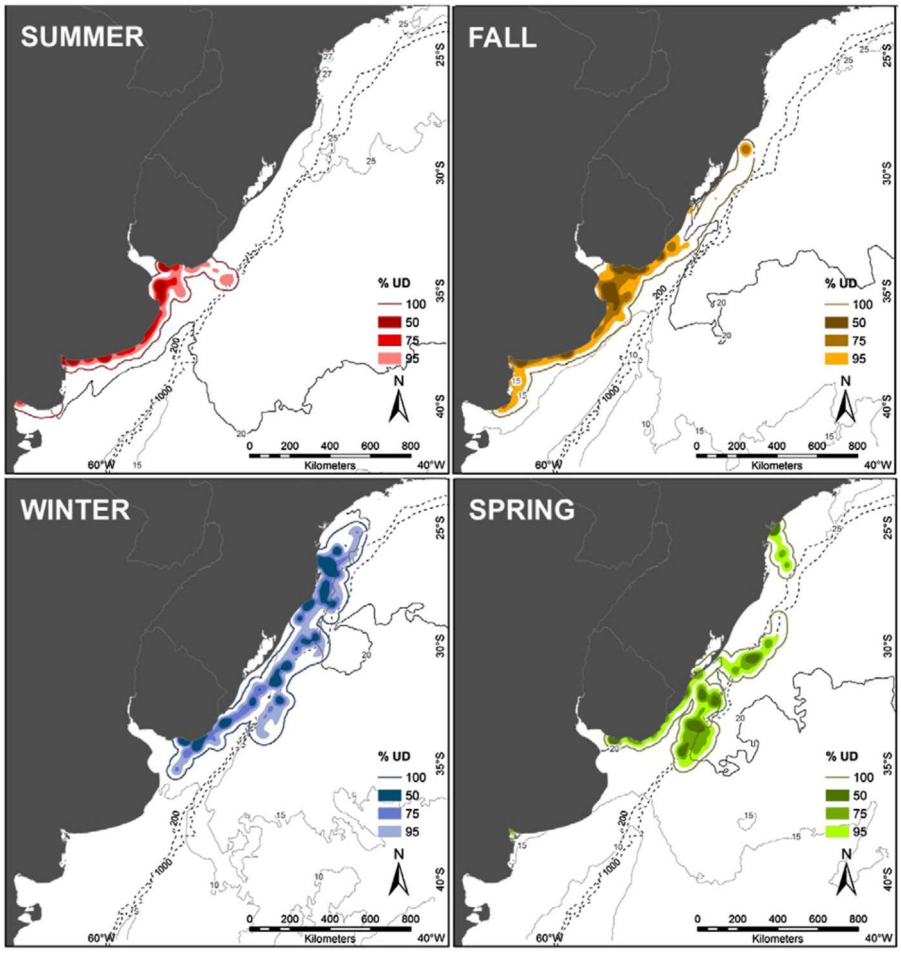

Figure 5. Seasonal habitat use of juvenile green turtles in the SW Atlantic. The 100% and 50% UD represent the overall distribution range of the turtle and the core activity areas, respectively. Gray full lines represent monthly isotherm for February, May, August and November of 2009. The 20 °C isotherm is highlighted (Table R#10).

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1 RMU: CC-SW ATL

1.1 Distribution, abundance, trends

1.1.1 Nesting sites

There are 22 nesting sites (Tables 1 and 2; Fig. 1) for the Southwest Atlantic population, 13 of which are classified as “major” nesting sites and 9 are as “minor” nesting sites, according to the Table 1. For abundance parameters (e.g. nests, females), please see Table 1.

The most recent year for abundance data published across all rookeries was 2013. All nesting sites, except for one, have shown a 70% increase in the number of nests between 2008-2013. (Table R # 68).

1.1.2 Marine areas

Identified foraging grounds and migratory corridors of loggerhead nesting females tagged in Praia do Forte, Bahia state, are shown in Fig. 2 (Table R # 78). Movement paths and foraging areas of immature loggerheads satellite-tagged are displayed in neritic and oceanic habitats in southernmost of the SW Atlantic (Fig. 3; Table R # 1 #76). Dispersal patterns and migratory routes of oceanic stage of yearling loggerhead turtles satellite-tagged in Praia do Forte are shown in Fig. 4 (Table R # 82).

1.2 Other biological data

Please see Table 1.

1.3 Threats

1.3.1 Nesting sites

Please see Table 1.

1.3.2 Marine areas

Please see Table 1.

1.4 Conservation
Protection status: see Table 1 for national laws (Table R # 190) and Table 3 for international conventions. Long-term governmental and non-governmental programs are listed in Table 4.

1.5 Research
Brazil has a huge standardized database. We consider updates of population trends as more relevant for conservation. Currently, Brazil has a time series longer than 25 years for loggerhead nesting data (annual number of nests).

2 RMU: DC-SW ATL

2.1 Distribution, abundance, trends
2.1.1 Nesting sites
There is only one known nesting site with 160 km of beach, hosting a small population (Table R # 122, 198); for operational and management purposes, this nesting area was divided into five sections (Table 2; Fig. 1); some biological and ecological information will be provided separately for the five sections (Tables 1, 2). For abundance indexes (e.g. nests, females) please see Table 1. In the complete nesting site (that is, for the five sections as a unity), the mean annual number of nests increased from 26 nests in 1988-1992 to 90 nests in 2013-2017. (Table 1; Table R # 198)

2.1.2 Marine areas
Dispersal patterns of post-nesting females in Brazil are shown in Fig 5 (Table R # 2). Satellite-tracking has shown that leatherbacks leaving their nesting sites in Gabon undergo displacements up to the coast of South America (Table R # 191). Recently, through bycatch fishing information, a pelagic juvenile concentration area was identified in the equatorial central Atlantic (Table R #199)

2.2 Other biological data
Please see Table 1.

2.3 Threats
Please see Table 1.

2.4 Conservation
Protection status: please see Table 1 for national laws (Table R # 190) and Table 3 for international conventions. Long-term governmental and non-governmental programs are listed in Table 4.

2.5 Research
Brazil has a huge standardized database. An article analyzing 30 years of leatherback nesting data in Brazil has been published in 2019 (Table R # 198).

3 RMU: CM-SW ATL

3.1 Distribution, abundance, trends

3.1.1 Nesting sites

There are 11 nesting sites (Table 1 and 2; Fig. 1). The three main nesting areas of this RMU are located on oceanic islands. For abundance indexes (e.g. number of nests or nesting females per year) please see Table 1. In Trindade Island, the population remained stable between 1991 and 2008 (Table R # 101). The average annual number in of nests in the Biological Reserve of Atol das Rocas was approximately the same when comparing the two five-year periods 1990-1994 and 2004-2008 (Ref # 92).

3.1.2 Marine areas

Brazil host important mixed stock feeding grounds for juvenile, sub-adults and adults' green turtles (Table R # 63, 163). Capture rates in a non-lethal fishery in southern Brazil increased by 9.2% per year from 1995 to 2016, in line with increasing source populations, particularly the main source contributor which is Ascension Island (Table R # 189). Those data in Brazil could indicate increase in size of nesting populations in distant areas (Fig.6).

3.2 Other biological data

Please see Table 1.

3.3 Threats

3.3.1 Nesting sites

Please see Table 1.

3.3.2 Marine areas

Please see Table 1.

3.4 Conservation

Protection status: see Table 1 for national laws (Table R # 190) and Table 3 for international conventions. Long-term governmental and non-governmental programs are listed in Table 4.

3.5 Research

Brazil has a huge standardized database. We consider as more relevant for conservation, the update of population trends: currently, Brazil has a 25+ years time series of green turtle nesting data (annual number of nests), for the 3 main rookeries as followed: Atol das Rocas, Trindade Island and Fernando de Noronha.

4 RMU: EI-SW ATL

4.1 Distribution, abundance, trends

4.1.1 Nesting sites

There are 15 nesting sites (Table 1 and 2; Fig. 1). The five main nesting areas of this RMU are located in the northeast of Bahia and in Rio Grande do Norte states (Table 2). For abundance indexes (e.g. number of nests or nesting females per year) please see Table 1. All index nesting sites have positive trends (Table R # 135;124).

4.1.2 Marine areas

Identified foraging grounds and migratory corridors of hawksbill nesting females tagged in Bahia are shown in Fig. 7 (Table R # 78) and Fig. 8 (Table R#65). Reported feeding areas are: the Fernando de Noronha National Marine Park, Abrolhos National Marine Park, Biological Reserve of Atol das Rocas and Ilha do Arvoredo. Juveniles tagged in Atol das Rocas were later recorded nesting in Bahia, Brazil (Itacimirim and Ilhéus), Rio Grande do Norte (Pipa) and in Barbados (Table R#74; Fig. 9).

4.2 Other biological data

Please see Table 1.

4.3 Threats

Please see Table 1.

4.4 Conservation

Protection status: see Table 1 for national laws (Table R # 190) and Table 3 for international conventions.
Long-term governmental and non-governmental programs are listed in Table 4.

4.5 Research

Brazil has a huge standardized database. We consider as more relevant for conservation, the update of population trends: currently, Brazil has a 25+ years time series of hawksbill turtle nesting data (annual number of nests).

5 RMU: LO-SW ATL

5.1 Distribution, abundance, trends

5.1.1 Nesting sites

There are 18 olive ridley nesting sites (Table1 and 2; Fig. 1) and nine of them are classified as “major” nesting areas (Table 1).
For abundance indexes (e.g. number of nests or nesting females per year) please see Table 1. The most recent year for abundance data published across all rookeries (13 nesting sites) was 2013. All index nesting sites have positive population trends (Table R # 129;136).

5.1.2 Marine areas

Feeding grounds are situated along neritic waters in N/NE Brazil off the states of Pará, Rio Grande do Norte, Pernambuco, Alagoas, and S/SE Brazil off Espírito Santo, Rio de Janeiro, São Paulo and Paraná (Table R# 83; Fig. 10, Table R# 225; Fig. 11). Also, oceanic foraging areas were identified off Cape Verde, Senegal, Gambia, Guinea-Bissau and Sierra Leone in northwestern Africa. (Table R# 225)

5.2 Other biological data

Please see Table 1.

5.3 Threats

Please see Table 1.

5.4 Conservation
Protection status: see Table 1 for national laws (Table R # 190) and Table 3 for international conventions. Long-term governmental and non-governmental programs are listed in Table 4.

5.5 Research
Brazil has a huge standardized database. We consider updates of population trends as more relevant for conservation: currently, Brazil has a 25+ years' time series of olive ridley turtle nesting data (annual number of nests).

6 RMU: DC-new ATL

6.1 Distribution, abundance, trends

6.1.1 Nesting sites
There is only one known recently discovered nesting site around the Parnaíba Delta in the states of Piauí and possibly Maranhão, with about 80 km of beach, hosting a small population (Table R #203) (Tables 1, 2). There is evidence of regular annual nestings in the area, but no abundance indexes (e.g. nests, females) are available (Table 1; Table R # 203)

6.1.2 Marine areas
Only one nesting female has been so far satellite-tracked for her post nesting movements; this female went northwards up to a point in the North Atlantic close to Nova Scotia in Canada (Table R # 203).

6.2 Other biological data
Please see Table 1.

6.3 Threats
Please see Table 1.

6.4 Conservation
Protection status: please see Table 1 for national laws (Table R # 190) and Table 3 for international conventions. Long-term governmental and non-governmental programs are listed in Table 4.

6.5 Research
An article about this population is being written, to be submitted to an international journal for publication.

Table 1. Main Table

RMU (all RMUs of all species occurring in a Country or Region) add or remove columns on the right according to the RMUs	CC-SW ATL	Ref #	DC-SW ATL	Ref #	CM-SW ATL	Ref #	EI-SW ATL	Ref #	LO-SW ATL	Ref #	DC-new ATL	Ref #
Occurrence												
Nesting sites	**Y**	**131**	**Y**	**133, 198**	**Y**	**134; 217**	**Y**	**123;135; 118; 221**	**Y**	**136; 223; 226**	**Y**	**275**
Pelagic foraging grounds	**Y**	**1;12; 200**	**Y**	**2**	**N**		**N**		**Y**	**83**		
Benthic foraging grounds	**Y**	**78; 200; 233**	**Y**	**2**	**Y**	**50; 261; 262; 263**	**Y**	**81**	**Y**	**83; 268**		
Key biological data												
Nests/yr: recent average (range of years)	**7540 (2008/09 - 2012/13)**	**68**	**89,8 (2013 - 2017)**	**69; 198**	**3600 (1991/92 – 2008/09)**	**101**	**1900 (2009 - 2010)**	**190**	**6710 (2009-2010)**	**190**		

Nests/yr: recent order of magnitude	**7000 - 8000**	**68**	**50 - 100 (2013 - 2017)**	**198**	**3000 - 4000**	**101**	**2000 - 2500**	**T2**	**8000 - 9000**	**T2**	**< 100**	**275**
Number of "major" sites (>20 nests/yr AND >10 nests/km yr)	**12**	**3;17;34**	**0**	**3;122;133**	**2**	**3;17;101;134**	**5**	**3;4;17;123;125;135**	**8**	**3;17;37;129;136**		
Number of "minor" sites (<20 nests/yr OR <10 nests/km yr)	**10**	**3;17;34;121**	**5 ***	**3;122;133, 198**	**7**	**3;17;134**	**10**	**3;4;17;123;125;135**	**11**	**3;17;37;129;136**		
Nests/yr at "major" sites: recent average (range of years)	**570 (2010/2011-2018/2019)**	**3;17;34;121**	**69 (2010/2011-2018/2019)**	**3;122;133, 198**	**1405 (2010/2011-2018/2019)**	**3;17;101;134**	**355 (2010/2011-2018/2019)**	**3;4;17;123;125;135**	**1050 (2010/2011-2018/2019)**	**3;17;37;129;136**		
Nests/yr at "minor" sites: recent average (range of years)	**180 (2010/2011-2018/2019)**	**3;17;34**	**3 (2010/2011-2018/2019)**	**198**	**18 (2010/2011-2018/2019)**	**3;17;101;134**	**55(2010/2011-2018/2019)**	**3;4;17;123;125;135**	**70 (2010/2011-2018/2019)**	**3;17;37;129;136**		
Total length of nesting sites (km)	**580**	**T2**	**160**	**198**	****254**	**T2**	**375**	**T2**	**313**	**T2**		
Nesting females / yr	**N**		**N**		**N**		**705 - 791**	**125**	**N**			

Nests / female season (N)	**4.1**	**102;121**	**5 - 6**	**2; 198**	**5.2 (775)**	**92**	**2.1-2.6**	**187;10;119 ;125**	**N**			
Female remigration interval (yrs) (N)	**2**	**102;121**	**02-Aug**	**198**	**3.5 (142)**	**92**	**2.1**	**10;119;125**	**N**	**223**		
Sex ratio: Hatchlings (F / Tot) (N)	**53-94 (27.697)**	**184; 195**	**N**		**N**		**89-96 (5514)**	**183**	**N**	**251**		
Sex ratio: Immatures (F / Tot) (N)	**N**		**N**		**N**		**N**		**N**			
Sex ratio: Adults (F / Tot) (N)	**N**		**N**		**N**		**N**		**N**			
Min adult size, CCL or SCL (cm)	**79,5 CCL**	**3; T 4.1**	**125 CCL**	**T 4.1 ; 198**	**89 CCL**	**3; 188; T4.1**	**74 CCL**	**3; T4.1**	**60 CCL**	**3; T 4.1**		
Age at maturity (yrs)	**Y**	**45; 46**	**N**		**Y**	**48**	**Y**	**53**	**Y**	**54**		
Clutch size (n eggs) (N)	**127**	**128**	**87.7**	**122**	**120.1**	**101**	**140; 143**	**70; 120**	**100.1**	**129**		
Emergence success (hatchlings/egg) (N)	**73,1% & 63,2%; 79,9% & 67,7; 56,7% to 80,88%**	**70; 72; 71; 223**	**66.00%**	**122; 198**	**84.40%**	**101**	**61% &51,7%**	**70**	**80,2% & 78,7%**	**129**		

Nesting success (Nests/ Tot emergence tracks) (N)					**54%**	**101**						
Trends												
Recent trends (last 20 yrs) at nesting sites (range of years)	**up**	**131, 218**	**up (1998 - 2017)**	**122; 198**	**stable**	**101;134**	**up**	**135;124**	**up**	**129;136**		
Recent trends (last 20 yrs) at foraging grounds (range of years)	**N**		**N**		**up**	**189**	**N**		**N**			
Oldest documented abundance: nests/yr (range of years)												
Published studies												
Growth rates	**Y**	**45; 46**	**N**		**Y**	**47; 48; 49; 50;**	**Y**	**52; 53; 215, 222**	**Y**	**54**		

						51; 84; 216, 269						
Genetics	**Y**	**55;56; 57; 58; 197, 200; 236; 237**	**Y**	**59; 60; 61**	**Y**	**62; 63**	**Y**	**64; 65; 197; 230; 235, 236**	**Y**	**66**		
Stocks defined by genetic markers	**Y**	**55; 56; 236, 237**	**Y**	**59**	**Y**	**62**	**Y**	**64; 67; 235; 236**	**Y**	**66**		
Remote tracking (satellite or other)	**Y**	**76; 77; 78; 79; 80; 82;194; 227**	**Y**	**2**	**Y**	**75, 202, 205**	**Y**	**81; 225; 228**	**Y**	**82; 223**		
Survival rates	**N**		**N**		**Y**	**84**	**N**		**N**			
Population dynamics	**N**	**233; 237**	**N**		**Y**	**84; 49; 189**	**Y**	**52**	**N**			
Foraging ecology (diet or isotopes)	**Y**	**105; 106; 107; 87; 108; 109; 110; 76; 94; 200**	**Y**	**87; 94**	**Y**	**50; 85; 86; 87; 88; 89; 90; 91; 30; 93; 94; 95; 96; 97; 98; 99; 100; 263, 274**	**Y**	**53; 103; 104**	**Y**	**111; 112; 113; 266; 268**		

Capture-Mark-Recap-ture	**Y**	**121**	**Y**	**2; 122, 198**	**Y**	**84; 47; 49; 50; 24; 115; 116; 117;**	**Y**	**117; 52; 104; 118; 119; 120;187; 222; 229**	**Y**	**37**		
Threats												
Bycatch: presence of small scale / artisanal fish-eries?	**Y (SN; ST; PN; OTH (cor-rals))**	**24; 25; 31; 36; 40; 41; 206, 208; 209; 210, 273**	**Y (SN; OTH (co-rrals))**	**24; 25; 31; 36; 39; 40; 206, 208; 209; 210**	**Y (SN; ST; PN; OTH (cor-rals))**	**24; 25; 28; 29; 30; 31; 36; 40; 41; 205; 206, 208, 209; 210; 213; 214; 265, 273**	**Y (SN; PN; OTH (corrals))**	**24; 25; 31; 36; 40; 41; 206; 208; 209; 210, 273**	**Y (SN; OTH (co-rrals))**	**36; 38; 40; 206; 208; 209; 210; 271, 273**		
Bycatch: presence of industrial fisheries?	**Y (PLL; SN; DN; ST)**	**5; 6; 7; 8; 9; 11; 12; 13; 14; 15; 16; 18; 19; 20; 21; 22; 27; 32; 35; 43; 203; 204; 207; 210; 211; 212**	**Y (PLL; SN; DN; ST)**	**5; 6; 7; 8; 9; 11; 13; 14; 16; 19; 20; 21; 22; 23; 26; 27; 32; 35; 43, 199; 207; 210; 211; 265**	**Y (PLL; SN; DN; ST)**	**8; 9; 11; 19; 21; 26; 27; 32; 43; 207; 210; 211; 212**	**Y (SN)**	**43; 210**	**Y (PLL; ST)**	**5; 8; 9; 11; 13; 19; 26; 32; 35; 43; 203; 207; 210; 211; 265**		

Bycatch: quantified?	**Y (PLL, DN)**	**6; 8; 11; 13; 14; 15; 16; 18; 19; 21; 24; 27; 203;**	**Y (PLL; DN)**	**6; 8; 11; 13; 14; 16; 19; 21; 24; 27, 199; 265**	**Y (PLL; OTH (pound net)**	**8; 19; 21; 24; 27;189;**	**Y**	**24**	**Y (PLL)**	**8; 19; 203**		
Take. Intentional killing or exploitation of turtles	**N**		**N**		**Y**	**T4.3**	**Y**	**125**	**N**			
Take. Egg poaching	**Y**	**126; 127**	**N**		**Y**	**126**	**Y**	**126; 125**	**Y**	**126;129**		
Coastal Development. Nesting habitat degradation	**Y**	**130; 131; 132**	**Y**	**133, 198**	**Y**	**130; 134**	**Y**	**130; 135, 272**	**Y**	**130; 136**		
Coastal Development. Photopollution	**Y**	**130; 131; 137; 138; 139; 232**	**Y**	**139; 232**	**Y**	**130; 134; 139; 232**	**Y**	**135; 137; 232**	**Y**	**136; 139; 140, 232**		
Coastal Development. Boat strikes	**N**		**N**		**N**		**N**		**N**			
Egg predation	**Y**	**141; 142; 143; 144**	**N**		**Y**	**145**	**Y**	**141; 144**	**Y**	**143; 144**		

Pollution (debris, chemical)	**Y**	**42; 146, 201, 208; 209; 210; 231; 243; 244**	**Y**	**42, 198, 201, 208; 209; 210; 231 ; 243; 244**	**Y**	**42; 147; 148; 149; 150; 151, 201, 208; 209; 210; 231; 243; 244; 238; 239; 240 ; 241; 242; 257; 258; 259; 260, 270**	**Y**	**201; 208; 209; 210; 231; 243; 244**	**Y**	**193, 201, 208; 209; 210; 231; 243; 244**		
Pathogens	**Y**	**181; 182; 245; 208; 250; 255**	**N**	**208; 246; 255**	**Y**	**152; 153; 154; 155; 156; 157; 158; 159; 160; 161; 162; 163; 164; 165; 166; 167; 168; 169; 170; 171; 172; 173; 174; 175; 176; 177; 178; 179; 180; 47; 208; 247; 248; 249; 250; 252;**	**Y**	**181; 208; 255; 256**	**Y**	**181; 208; 250; 255**		

						253; 254; 255						
Climate change	**Y**	**184; 185; 218; 219; 220**	**N**		**N**		**Y**	**183; 196**	**N**			
Foraging habitat degradation	**N**		**N**		**Y**	**97; 186; 205**	**N**		**N**			
Other	**Y**	**44; 214**	**Y**	**44; 214; 267**	**Y**	**44; 214; 264**	**Y**	**214**	**Y**	**44; 214**		
		234		**234**		**234**		**234**				
Long-term projects (>5yrs)												
Monitoring at nesting sites (period:	**Y (1982-ongoing)**	**3;128**	**Y (1982-ongoing)**	**3;122**	**Y (1982-ongoing)**	**3;92;101**	**Y (1982-ongoing)**	**3;124**	**Y (1982-ongoing)**	**3;129**	**Y (2007-**	**275**

range of years)											**on-going)**	
Number of index nesting sites	**6**	**see T2**	**2**	**see T2**	**2**	**see T2**	**5**	**see T2**	**3**	**see T2**		
Monitoring at foraging sites (period: range of years)	**2**	**T4.4; T4.7**	**1**	**T4.9**	**8**	**84; 189; T4.2; T4.3; T4.4; T4.5; T4.6; T4.8; T4.10; T4.11; T4.14**	**2**	**T4.6**	**1**	**T4.4**		
Conservation												
Protection under national law	**Y**	**190**	**Y**	**190**	**Y**	**190**	**Y**	**190**	**Y**	**190**	**Y**	**190**
Number of protected nesting sites (habitat preservation) (% nests)	**100%**	**190**	**100%**	**190**	**100%**	**190**	**100%**	**190**	**100%**	**190**	**100%**	**190**
Number of Marine Areas	**0**		**0**		**0**		**0**		**0**			

with mitigation of threats												
N of long-term conservation projects (period: range of years)	**>1 (1982-ongoing)**	**126; T4.1; T4.12**	**>1 (1982-ongoing)**	**126; T4.1; T4.9**	**>1 (1981-ongoing)**	**126;188; T4.1**	**>1 (1982-ongoing)**	**126; T4.1; T4.6**	**>1 (1982-ongoing)**	**126;T4.1**	**1 (2007-0ngoing)**	**275**
In-situ nest protection (eg cages)	**Y**	**126**	**Y**	**126**	**N**		**Y**	**126**	**Y**	**126**		
Hatcheries	**Y**	**126**	**Y**	**122**	**N**		**Y**	**126**	**Y**	**126**		
Head-starting	**N**		**N**		**N**		**N**		**N**			
By-catch: fishing gear modifications (eg, TED, circle hooks)	**Y**	**21**	**Y**	**21**	**N**		**N**		**N**			
By-catch: onboard best practices	**N**		**N**		**N**		**N**		**N**			
By-catch: spatio-temporal closures/reduction	**N**		**N**		**N**		**N**		**Y**	**38**		
Other												

Table 2. Nesting sites

RMU / Nesting beach name	Index site	Nests/yr: recent average (range of years)	Crawls/yr: re-cent aver-age (rang e of years)	Western limit		Eastern limit		Central point		Lengt h (km)	% Monito red	Refere nce #	Monit oring Level (1-2)	Monit oring Protoc ol (A-F)
CC-SW ATL				Long	Lat	Long	Lat	Long	Lat					
Farol	Y	749 (2010/2011 - 2018/2019)		-41,0933	-21,84628	-40,99783	-21,84628			31	100	#190 #184	1	
Atafona	N	387 (2010/2011 - 2018/2019)		-40,9978	-21,31200	-40,96000	-21,31200			31	100	#190 #184	1	
Vitoria	N	22 (2010/2011 - 2018/2019)		-40,2197	-20,05600	-40,19200	-20,05600			26	100	#190 #184	1	
Comboios	Y	704 (2010/2011 - 2018/2019)		-39,9546	-19,61201	-39,79700	-19,61201			37	100	#190 #184	1	
Povoação	Y	439 (2010/2011 - 2018/2019)		-39,797	-19,53032	-39,75867	-19,53032			10	100	#190 #184	1	

Monsaras	N	459 (2010/2011 - 2018/2019)		-39,7587	-19,30945	-39,69172	-19,30945			29	100	#190 #184	1	
Pontal do Ipiranga	N	292 (2010/2011 - 2018/2019)		-39,6917	-19,02656	-39,72897	-19,02656			28	100	#190 #184	1	
Guriri	N	237 (2010/2011 - 2018/2019)		-39,729	-18,58339	-39,73157	-18,58339			55	100	#190 #184	1	
Itapuan	N	277(2010/2011 - 2018/2019)		-38,3879	-12,86355	-38,25852	-12,86355			20	100	#190 #184	1	
Interlagos	Y	1148 (2010/2011 - 2018/2019)		-38,2585	-12,76501	-38,17058	-12,76501			16	100	#190 #184	1	
Berta	N	330 (2010/2011 - 2018/2019)		-38,1706	-12,69677	-38,11299	-12,69677			11	100	#190 #184	1	
Guarajuba	Y	717 (2010/2011 - 2018/2019)		-38,113	-12,55049	-37,99060	-12,55049			16	100	#190 #184	1	
Praia do Forte	Y	693 (2010/2011 - 2018/2019)		-37,9906	-12,48218	-37,94832	-12,48218			14	100	#190 #184	1	
Sauipe	N	798 (2010/2011 - 2018/2019)		-37,9483	-12,06547	-37,66891	-12,06547			56	100	#190 #184	1	
Conde	N	399 (2010/2011 - 2018/2019)		-37,6689	-11,53528	-37,40609	-11,53528			67	100	#190 #184	1	

Coqueiros	N	62 (2010/2011 - 2018/2019)		-37,4061	-11,48089	-37,36747	-11,48089			6	100	#190 #184	1	
Mangue Seco	N	46 (2010/2011 - 2018/2019)		-37,3675	-11,45500	-37,35800	-11,45500			8	100	#190 #184	1	
Abais	N	284 (2010/2011 - 2018/2019)		-37,314	-11,17400	-37,16700	-11,17400			36	100	#190 #184	1	
Rato	N	72 (2010/2011 - 2018/2019)		-36,9642	-10,70920	-36,81259	-10,70920			26	100	#190 #184	1	
Pirambu	N	136 (2010/2011 - 2018/2019)		-36,8126	-10,66098	-36,74069	-10,66098			12	100	#190 #184	1	
Santa Isabel	N	104 (2010/2011 - 2018/2019)		-36,7407	-10,60659076	-36,64023856	-10,60659076			13	100	#190 #184	1	
Ponta dos Mangues	N	276 (2010/2011 - 2018/2019)		-36,6402	-10,49800	-36,39900	-10,49800			32	100	#190 #184	1	
Pipa	N	2(2010/2011 - 2018/2019)		-35,0325	-5,88013	-35,15920	-5,88013			42	100	#190 #184	1	
Fernando de Noronha	N	0 (2010/2011 - 2016/2017)						-3,870085	-32,437469		100	#190 #184	1	
Trindade	N	0 (2010/2011 - 2016/2017)						-20,509099	-29,32494		100	#190 #184	1	

EI- SW ATL														
Farol	N	3 (2010/2011 - 2018/2019)		-41,0933	-21,84628	-40,99783	-21,84628			31	100	#190 #183	1	
Atafona	N	2 (2010/2011 - 2018/2019)		-40,9978	-21,31200	-40,96000	-21,31200			31	100	#190 #183	1	
Vitoria	N	0 (2010/2011 - 2018/2019)		-40,2197	-20,05600	-40,19200	-20,05600			26	100	#190 #183	1	
Comboios	N	2 (2010/2011 - 2018/2019)		-39,9546	-19,61201	-39,79700	-19,61201			37	100	#190 #183	1	
Povoação	N	1 (2010/2011 - 2018/2019)		-39,797	-19,53032	-39,75867	-19,53032			10	100	#190 #183	1	
Monsaras	N	1(2010/2011 - 2018/2019)		-39,7587	-19,30945	-39,69172	-19,30945			29	100	#190 #183	1	
Pontal do Ipiranga	N	1 (2010/2011 - 2018/2019)		-39,6917	-19,02656	-39,72897	-19,02656			28	100	#190 #183	1	
Guriri	N	4 (2010/2011 - 2018/2019)		-39,729	-18,58339	-39,73157	-18,58339			55	100	#190 #183	1	
Itapuan	N	63 (2010/2011 - 2018/2019)		-38,3879	-12,86355	-38,25852	-12,86355			20	100	#190 #183	1	

Interlagos	Y	288 (2010/2011 - 2018/2019)		-38,2585	-12,76501	-38,17058	-12,76501			16	100	#190 #183	1	
Berta	Y	281 (2010/2011 - 2018/2019)		-38,1706	-12,69677	-38,11299	-12,69677			11	100	#190 #183	1	
Guarajuba	Y	169 (2010/2011 - 2018/2019)		-38,113	-12,55049	-37,99060	-12,55049			16	100	#190 #183	1	
Praia do Forte	Y	168 (2010/2011 - 2018/2019)		-37,9906	-12,48218	-37,94832	-12,48218			14	100	#190 #183	1	
Sauipe	N	292 (2010/2011 - 2018/2019)		-37,9483	-12,06547	-37,66891	-12,06547			56	100	#190 #183	1	
Conde	N	60 (2010/2011 - 2018/2019)		-37,6689	-11,53528	-37,40609	-11,53528			67	100	#190 #183	1	
Coqueiros	N	10 (2010/2011 - 2018/2019)		-37,4061	-11,48089	-37,36747	-11,48089			6	100	#190 #183	1	
Mangue Seco	N	8 (2010/2011 - 2018/2019)		-37,3675	-11,45500	-37,35800	-11,45500			8	100	#190 #183	1	
Abais	N	33 (2010/2011 - 2018/2019)		-37,314	-11,17400	-37,16700	-11,17400			36	100	#190 #183	1	
Rato	N	12 (2010/2011 - 2018/2019)		-36,9642	-10,70920	-36,81259	-10,70920			26	100	#190 #183	1	

Pirambu	N	9 (2010/2011 - 2018/2019)		-36,8126	-10,66098	-36,74069	-10,66098			12	100	#190 #183	1	
Santa Isabel	N	37 (2010/2011 - 2018/2019)		-36,7407	-10,60659076	-36,64023856	-10,60659076			13	100	#190 #183	1	
Ponta dos Mangues	N	22 (2010/2011 - 2018/2019)		-36,6402	-10,49800	-36,39900	-10,49800			32	100	#190 #183	1	
Pipa	Y	871 (2010/2011 - 2018/2019)		-35,0325	-5,88013	-35,15920	-5,88013			42	100	#190 #183	1	
Fernando de Noronha	N	0 (2010/2011 - 2016/2017)						-3,870085	-32,437469		100	#190 #183	1	
Trindade	N	0 (2010/2011 - 2016/2017)						-20,509099	-29,32494		100	#190 #183	1	
LO- W ATL														
Farol	N	1 (2010/2011 - 2018/2019)		-41,0933	-21,84628	-40,99783	-21,84628			31	100	#190 #136	1	
Atafona	N	0 (2010/2011 - 2018/2019)		-40,9978	-21,31200	-40,96000	-21,31200			31	100	#190 #136	1	
Vitoria	N	0 (2010/2011 - 2018/2019)		-40,2197	-20,05600	-40,19200	-20,05600			26	100	#190 #136	1	

Comboios	N	8 (2010/2011 - 2018/2019)		-39,9546	-19,61201	-39,79700	-19,61201			37	100	#190 #136	1	
Povoação	N	13 (2010/2011 - 2018/2019)		-39,797	-19,53032	-39,75867	-19,53032			10	100	#190 #136	1	
Monsaras	N	12 (2010/2011 - 2018/2019)		-39,7587	-19,30945	-39,69172	-19,30945			29	100	#190 #136	1	
Pontal do Ipiranga	N	25 (2010/2011 - 2018/2019)		-39,6917	-19,02656	-39,72897	-19,02656			28	100	#190 #136	1	
Guriri	N	21 (2010/2011 - 2018/2019)		-39,729	-18,58339	-39,73157	-18,58339			55	100	#190 #136	1	
Itapuan	N	17 (2010/2011 - 2018/2019)		-38,3879	-12,86355	-38,25852	-12,86355			20	100	#190 #136	1	
Interlagos	N	46 (2010/2011 - 2018/2019)		-38,2585	-12,76501	-38,17058	-12,76501			16	100	#190 #136	1	
Berta	N	7 (2010/2011 - 2018/2019)		-38,1706	-12,69677	-38,11299	-12,69677			11	100	#190 #136	1	
Guarajuba	N	68 (2010/2011 - 2018/2019)		-38,113	-12,55049	-37,99060	-12,55049			16	100	#190 #136	1	
Praia do Forte	N	71 (2010/2011 - 2018/2019)		-37,9906	-12,48218	-37,94832	-12,48218			14	100	#190 #136	1	

Sauipe	N	473 (2010/2011 - 2018/2019)		-37,9483	-12,06547	-37,66891	-12,06547			56	100	#190 #136	1	
Conde	N	715 (2010/2011 - 2018/2019)		-37,6689	-11,53528	-37,40609	-11,53528			67	100	#190 #136	1	
Coqueiros	Y	386 (2010/2011 - 2018/2019)		-37,4061	-11,48089	-37,36747	-11,48089			6	100	#190 #136	1	
Mangue Seco	Y	577 (2010/2011 - 2018/2019)		-37,3675	-11,45500	-37,35800	-11,45500			8	100	#190 #136	1	
Abais	N	1955 (2010/2011 - 2018/2019)		-37,314	-11,17400	-37,16700	-11,17400			36	100	#190 #136	1	
Rato	N	631 (2010/2011 - 2018/2019)		-36,9642	-10,70920	-36,81259	-10,70920			26	100	#190 #136	1	
Pirambu	Y	1434 (2010/2011 - 2018/2019)		-36,8126	-10,66098	-36,74069	-10,66098			12	100	#190 #136	1	
Santa Isabel	N	681 (2010/2011 - 2018/2019)		-36,7407	-10,60659076	-36,64023856	-10,60659076			13	100	#190 #136	1	
Ponta dos Mangues	N	2026 (2010/2011 - 2018/2019)		-36,6402	-10,49800	-36,39900	-10,49800			32	100	#190 #136	1	
Pipa	N	2(2010/2011 - 2018/2019)		-35,0325	-5,88013	-35,15920	-5,88013			42	100	#190 #136	1	

Fernando de Noronha	N	0 (2010/2011 - 2016/2017)						-3,870085	-32,437469		100	#190 #136	1	
Trindade	N	0 (2010/2011 - 2016/2017)						-20,509099	-29,32494		100	#190 #136	1	
DC- SW ATL														
Farol	N	0 (2010/2011 - 2018/2019)		-41,0933	-21,84628	-40,99783	-21,84628			31	100	#190 #133	1	
Atafona	N	0 (2010/2011 - 2018/2019)		-40,9978	-21,31200	-40,96000	-21,31200			31	100	#190 #133	1	
Vitoria	N	0 (2010/2011 - 2018/2019)		-40,2197	-20,05600	-40,19200	-20,05600			26	100	#190 #133	1	
Comboios	Y	39 (2010/2011 - 2018/2019)		-39,9546	-19,61201	-39,79700	-19,61201			37	100	#190 #133	1	
Povoação	Y	11 (2010/2011 - 2018/2019)		-39,797	-19,53032	-39,75867	-19,53032			10	100	#190 #133	1	
Monsaras	N	17 (2010/2011 - 2018/2019)		-39,7587	-19,30945	-39,69172	-19,30945			29	100	#190 #133	1	
Pontal do Ipiranga	N	2 (2010/2011 - 2018/2019)		-39,6917	-19,02656	-39,72897	-19,02656			28	100	#190 #133	1	

Guriri	N	3 (2010/2011 - 2018/2019)		-39,729	-18,58339	-39,73157	-18,58339			55	100	#190 #133	1	
Itapuan	N	0 (2010/2011 - 2018/2019)		-38,3879	-12,86355	-38,25852	-12,86355			20	100	#190 #133	1	
Interlagos	N	0 (2010/2011 - 2018/2019)		-38,2585	-12,76501	-38,17058	-12,76501			16	100	#190 #133	1	
Berta	N	0 (2010/2011 - 2018/2019)		-38,1706	-12,69677	-38,11299	-12,69677			11	100	#190 #133	1	
Guarajuba	N	0 (2010/2011 - 2018/2019)		-38,113	-12,55049	-37,99060	-12,55049			16	100	#190 #133	1	
Praia do Forte	N	0 (2010/2011 - 2018/2019)		-37,9906	-12,48218	-37,94832	-12,48218			14	100	#190 #133	1	
Sauipe	N	0 (2010/2011 - 2018/2019)		-37,9483	-12,06547	-37,66891	-12,06547			56	100	#190 #133	1	
Conde	N	0 (2010/2011 - 2018/2019)		-37,6689	-11,53528	-37,40609	-11,53528			67	100	#190 #133	1	
Coqueiros	N	0 (2010/2011 - 2018/2019)		-37,4061	-11,48089	-37,36747	-11,48089			6	100	#190 #133	1	
Mangue Seco	N	0 (2010/2011 - 2018/2019)		-37,3675	-11,45500	-37,35800	-11,45500			8	100	#190 #133	1	

Abais	N	0 (2010/2011 - 2018/2019)		-37,314	-11,17400	-37,16700	-11,17400			36	100	#190 #133	1	
Rato	N	0 (2010/2011 - 2018/2019)		-36,9642	-10,70920	-36,81259	-10,70920			26	100	#190 #133	1	
Pirambu	N	0 (2010/2011 - 2018/2019)		-36,8126	-10,66098	-36,74069	-10,66098			12	100	#190 #133	1	
Santa Isabel	N	0 (2010/2011 - 2018/2019)		-36,7407	-10,60659076	-36,640238 56	-10,60659076			13	100	#190 #133	1	
Ponta dos Mangues	N	0 (2010/2011 - 2018/2019)		-36,6402	-10,49800	-36,39900	-10,49800			32	100	#190 #133	1	
Pipa	N	0 (2010/2011 - 2018/2019)		-35,0325	-5,88013	-35,15920	-5,88013			42	100	#190 #133	1	
Fernando de Noronha	N	0 (2010/2011 - 2018/2019)						-3,870085	-32,437469		100	#190 #133	1	
Trindade	N	0 (2010/2011 - 2018/2019)						-20,509099	-29,32494		100	#190 #133	1	
CM - SW ATL														
Farol	N	0 (2010/2011 - 2018/2019)		-41,0933	-21,84628	-40,99783	-21,84628			31	100	#190 #134	1	

Atafona	N	0 (2010/2011 - 2018/2019)		-40,9978	-21,31200	-40,96000	-21,31200			31	100	#190 #134	1	
Vitoria	N	0 (2010/2011 - 2018/2019)		-40,2197	-20,05600	-40,19200	-20,05600			26	100	#190 #134	1	
Comboios	N	0 (2010/2011 - 2018/2019)		-39,9546	-19,61201	-39,79700	-19,61201			37	100	#190 #134	1	
Povoação	N	0 (2010/2011 - 2018/2019)		-39,797	-19,53032	-39,75867	-19,53032			10	100	#190 #134	1	
Monsaras	N	0 (2010/2011 - 2018/2019)		-39,7587	-19,30945	-39,69172	-19,30945			29	100	#190 #134	1	
Pontal do Ipiranga	N	1 (2010/2011 - 2018/2019)		-39,6917	-19,02656	-39,72897	-19,02656			28	100	#190 #134	1	
Guriri	N	0 (2010/2011 - 2018/2019)		-39,729	-18,58339	-39,73157	-18,58339			55	100	#190 #134	1	
Itapuan	N	1 (2010/2011 - 2018/2019)		-38,3879	-12,86355	-38,25852	-12,86355			20	100	#190 #134	1	
Interlagos	N	10 (2010/2011 - 2018/2019)		-38,2585	-12,76501	-38,17058	-12,76501			16	100	#190 #134	1	
Berta	N	2 (2010/2011 - 2018/2019)		-38,1706	-12,69677	-38,11299	-12,69677			11	100	#190 #134	1	

Guarajuba	N	13 (2010/2011 - 2018/2019)		-38,113	-12,55049	-37,99060	-12,55049			16	100	#190 #134	1	
Praia do Forte	N	19 (2010/2011 - 2018/2019)		-37,99 06	-12,482 18	-37,9483 2	-12,4821 8			14	100	#190 #134	1	
Sauipe	N	20 (2010/2011 - 2018/2019)		-37,94 83	-12,065 47	-37,6689 1	-12,0654 7			56	100	#190 #134	1	
Conde	N	25 (2010/2011 - 2018/2019)		-37,66 89	-11,535 28	-37,4060 9	-11,5352 8			67	100	#190 #134	1	
Coqueiros	N	1 (2010/2011 - 2018/2019)		-37,40 61	-11,480 89	-37,3674 7	-11,4808 9			6	100	#190 #134	1	
Mangue Seco	N	1 (2010/2011 - 2018/2019)		-37,36 75	-11,455 00	-37,3580 0	-11,4550 0			8	100	#190 #134	1	
Abais	N	3 (2010/2011 - 2018/2019)		-37,31 4	-11,174 00	-37,1670 0	-11,1740 0			36	100	#190 #134	1	
Rato	N	1 (2010/2011 - 2018/2019)		-36,96 42	-10,709 20	-36,8125 9	-10,7092 0			26	100	#190 #134	1	
Pirambu	N	1 (2010/2011 - 2018/2019)		-36,81 26	-10,660 98	-36,7406 9	-10,6609 8			12	100	#190 #134	1	
Santa Isabel	N	1 (2010/2011 - 2018/2019)		-36,74 07	-10,606 59076	-36,6402 3856	-10,6065 9076			13	100	#190 #134	1	

Ponta dos Mangues	N	4 (2010/2011 - 2018/2019)		-36,6402	-10,49800	-36,39900	-10,49800			32	100	#190 #134	1	
Pipa	N	13 (2010/2011 - 2018/2019)		-35,0325	-5,88013	-35,15920	-5,88013			42	100	#190 #134	1	
Fernando de Noronha	Y	164 (2010/2011 - 2018/2019)						-3,870085	-32,437469		100	#190 #134	1	
Trindade	Y	2365 (2010/2011 - 2018/2019)						-20,509099	-29,32494		100	#190 #134	1	
DC-new ATL														
Delta do Parnaíba	N							2°44' S	41°48' W	80		#275		

Table 3. Conventions

International Conventions	Signed	Binding	Compliance measured and reported	Species
Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)	Y	Y	Y	CC, CM, DC, EI, LO
Convention on the Conservation of Migratory Species of Wild Animals (CMS)	Y	Y	Y	CC, CM, DC, EI, LO
Ramsar Convention	Y	Y	Y	CC, CM, DC, EI, LO
International Convention for the Prevention of Pollution from Ships (MARPOL)	Y	Y	Y	CC, CM, DC, EI, LO

Convention on Biological Diversity (CBD)	Y	Y	Y	CC, CM, DC, EI, LO
United Nations Convention on the Law of the Sea (CONVEMAR)	Y	Y	Y	CC, CM, DC, EI, LO
Inter-American Convention for the Protection and Conservation of Sea Turtle (IAC)	Y	Y	Y	CC, CM, DC, EI, LO

Table 4. Projects and Databases

#	RMU	Country	Region / Location	Project Name or descriptive title	Keywords	Start date	End date	Leading organisation	Public/Private	Collaboration with	Reports / Information material	Current Sponsors	Primary Contact (name and Email)	Other Contacts (name and Email)	Database available	Name of Database	Names of sites included (matching Table	Beginning of the time series	End of the time seri	Track information	Nest information	Flipper tagging	Tags in STTI-ACCSTR?	PIT tagging	Remote tracking	Ref #

																	B, if ap-pr op ri-ate)		**es**					
T4.1	CM-SW ATL, CC-SW ATL, DC-SW ATL, EI-SW ATL, LO-SW ATL	Brazil	South america / Brazil	Monitoring and protection of priority nesting beaches in Brazil	nesting females; hatchlings; nests; conservation; Southwest Atlantic	1982	Continue	Projeto TAMAR	Private	ICMBio			Neca Marcovaldi (neca@tamar.org.br)		Y	SITAMAR	N	1982	2017	N	Y	Y		N	Y	3
T4.2	CM-SW ATL	Brazil	South america / Southeast Brazil,	Monitoring incidental capture of green sea turtles in pound	Conservation, Population al	1991	continue	Projeto TAMAR	Private	ICMBio	Silva, B. M., Bugoni, L., Almeida, B. A., Giffoni, B. B.,		Neca Marcovaldi (neca@tamar.org.br)	Berenice Gallo (bere@tamar.org.br)	Y	SITAMAR		1991	2017	N	N	Y		N	N	24; 189

			São Paulo, Ubatuba	nets, in Brazil	dynamic; Juvenile; Collaborative research; Ubatuba						Alvarenga, F. S., Brondizio, L. S., & Becker, J. H. (2017). Long-term trends in abundance of green sea turtles (Chelonia mydas) assessed by non-lethal capture rates in a coastal fishery. *Ecological Indicators*, *79*, 254-264. Gallo, B. M., Macedo, S., Giffoni, B. D. B., Becker, J. H., & Barata, P. C. (2006). Sea turtle														

											conservation in Ubatuba, southeastern Brazil, a feeding area with incidental capture in coastal fisheries. Chelonian conservation and biology, 5(1), 93-101.													
T4.3	CM-SW ATL, CC-SW ATL, EI-SW ATL, LO-SW ATL	Brazil	South america / Northern Brazil, Almofala, Ceará	Monitoring incidental capture of green sea turtles in corrals, in Brazil	Conservation, Population al dynamic; Juvenile; Collaborative	1992	Finished	Projeto TAMAR	Private	ICMBio			Neca Marcovaldi (neca@tamar.org.br)	Eduardo Lima (eduardo.lima@tamar.org.br)	Y	SITAMAR		1992	2017	N	N	Y		N	N	

					research; Almofala																			
T4.4	CM-SW ATL	Brazil	South america / Southeast Brazil, Espírito santo	Monitoring Juvenile green turtles in the effluent discharge channel of a steel plant in Brazil	Conservation, Population Dynamic, Juvenile, efflue nt discharge; Espírito Santo	2000	Continue	Projeto TAMAR	Private	Arcelor Mittal Tubarão Steel Company	Torezani, E., Baptistotte, C., Mendes, S. L., & Barata, P. C. (2010). Juvenile green turtles (Chelonia mydas) in the effluent discharge channel of a steel plant, Espírito Santo, Brazil, 2000–2006. *Journal of the Marine Biological*		Neca Marcovaldi (neca@tamar.org.br)	Cecília Baptistotte (cecilia@tamar.org.br)	Y	SITAMAR		2000	2017	N	N	Y		N	N	

											Association of the United Kingdom, *90*(2), 233-246.														
T4.5	CM-SW ATL	Brazil	South america / Northeast Brazil, Fernando de Noronha island	Capture-mark-recapture of green turtles at an isolated tropical archipelago in Brazil	Survival dynamics, Juvenile, in-water survey	1988	Continue	Projeto TAMAR	Private	ICMBio	Colman, L. P., Patrício, A. R. C., McGowan, A., Santos, A. J., Marcovaldi, M. Â., Bellini, C., & Godley, B. J. (2015). Long-term growth and survival dynamics of green turtles (Chelonia mydas) at an isolated tropical archipelago		Neca Marcovaldi (neca@tamar.org.br)	Paulo Lara paulo.lara@tamar.org.br	Y	SITAMAR		1988	2017	N	N	Y		N	N	

											in Brazil. *Marine biology*, *162*(1), 111-122.														
T4.6	EI-SW ATL	Brazil	South america / Northeast Brazil, Fernando de Noronha island	Capture-mark-recapture of hawksbill turtles at an isolated tropical archipelago in Brazil	Survival dynamics, Juvenile, in-water survey	1988	Continue	Projeto TAMAR	Private	ICMBio	SANTOS, A. J. B.; BELLINI, C.; BORTOLON, L. F. W.; OUTERBRIDGE, B.; SANTOS, A. S.; MARCOVALDI, M. A. In press. Movements of Brazilian hawksbill turtles revealed by flipper tags. In: 36th ANNUAL		Neca Marcovaldi (neca@tamar.org.br)	Armando Barsante (armando@tamar.org.br)	Y	SITAMAR		1988	2017	N	N	Y		N	N	

											SYMPO-SIUM ON SEA TURTLE BIOL-OGY AND CONSER-VATION, Lima, Perú.														
T4.7	CC-SW ATL	Brazil	South america / South Brazil, Rio Grande do Sul state	Strand-ings, in-cidental capture and habi-tat use by logger-head tur-tles in the foraging grounds in south-ern Bra-zil	Con-ser-va-tion, by-catch, diet, sta-ble iso-topes, onb oard ob-serv ers	2003	Con-tinue	NEMA	Pri-vate		Monteiro, D. S., Estima, S. C., Gandra, T. B., Silva, A. P., Bugoni, L., Swimmer, Y., Seminoff, J. A. & Secchi, E. R. (2016). Long-term spatial and temporal patterns of sea turtle strandings in south-		Danielle Monteiro (danismonteiro@yahoo.com.br)		Y			2003	2017	Y	N	Y		N	Y	

											ern Brazil. Marine Biology, 163(12), 247. ; Monteiro, D.S. 2017. Encalhes de tartarugas marinhas e uso do habitat por Caretta caretta no sul do Brasil. Tese de Doutorado (Programa de Pós-Graduação em Oceanografia Biológica), Universidade Federal do Rio Grande – FURG, Rio Grande.															

T4.8	CM-SW ATL	Brazil	South america / South Brazil, Rio Grande do Sul state	Strandings, incidental capture and habitat use by green turtles in the foraging grounds in southern Brazil	Conservation, bycatch, diet, onboard observers	2003	Continue	NEMA	Private		Monteiro, D. S., Estima, S. C., Gandra, T. B., Silva, A. P., Bugoni, L., Swimmer, Y., Seminoff, J. A. & Secchi, E. R. (2016). Long-term spatial and temporal patterns of sea turtle strandings in southern Brazil. *Marine Biology*, *163*(12), 247.		Danielle Monteiro (danismonteiro@yahoo.com.br)		Y			2003	2017	N	N	N		N	N	

T4.9	DC-SW ATL	Brazil	South america / South Brazil, Rio Grande do Sul state	Strandings, incidental capture and habitat use by leatherback turtles in the foraging grounds in southern Brazil	Conservation, bycatch, onboard observers	2003	Continue	NEMA	Private		Monteiro, D. S., Estima, S. C., Gandra, T. B., Silva, A. P., Bugoni, L., Swimmer, Y., Seminoff, J. A. & Secchi, E. R. (2016). Long-term spatial and temporal patterns of sea turtle strandings in southern Brazil. *Marine Biology*, *163*(12), 247.		Danielle Monteiro (danismonteiro@yahoo.com.br)		Y			2003	2017	N	N	N		N	N	

T4.10	CM-SW ATL	Brazil	Southamerica / Southeast Brazil, São Paulo, Cananéia, Ilha Comprida, Iguape	Projeto Tartarugas	Conservation; Juvenile; diet; debris	2003	continue	IPeC	Private		Bahia, N.C.F. & Bondioli, A.C.V. (2010) Interação das tartarugas marinhas com a pesca artesanal de cerco-fixo em Cananéia, litoral sul de São Paulo. Biotemas, 23, 203-213; Loreto, B.O. & Bondioli, A.C.V. (2008) Epibionts associated with green sea turtles (Chelonia mydas) from Cananéia, Southeast		Daniela Godoy (ipecpesquisas@gmail.com)		N							N	N	N	N	

											Brazil. Marine Turtle Newsletter, 122, 5-8.; DIAS, R. B. ; BONDIOLI, A. C. V. ; SCHLINDWEIN, M. N. . Tourists and Sea Turtles: A First Evaluation of Tourism Potential and Risks in Cananéia, Brazil. Marine Turtle Newsletter , v. 142, p. 14-17, 2014; Daiana Proença Bezerra. Ingestão de resíduos sólidos por tartarugas														

											marinhas (Chelonia mydas) no Complexo Estuarino Lagunar de Cananeia.. 2012. Dissertação (Mestrado em Ecologia e Conservação) - Universidade Federal do Paraná; Ana Paula Maistro. ESTIMATIVAS DE IDADE E CRESCIMENTO DE TARTARUGAS MARINHAS DA REGIÃO DE CANANÉIA, SP: VALIDAÇÃO DOS																

											MÉTODOS ESQUELETOCRONOLOGICOS DE ANÁLISE ETÁRIA. 2009. Trabalho de Conclusão de Curso. (Graduação em Ciências Biológicas) - Universidade Estadual do Norte do Paraná.														
T4.11	CM-SW ATL	Brazil	South America/ Brasil, Rio de Janeiro	Projeto Aruanã	feeding;juvenile; Southwest Atlantic	2010		UFF/ Projeto Aruanã	Public	UFF/ Projeto Aruanã	published articles		Suzana Guimarães suzanamgr@hotmail.com		y		Rio de Janeiro				n	y	y	n	n	14

T4.12	CC-SW ATL	Brazil	South America/ Brazil, north Rio de Janeiro	Marine turtles monitoring - Nesting Beach Monitoring	Nesting female; southwest Atlantic	2010	2017	Porto do Açu	Private/ Public	Projeto TAMAR	Annual Reports		Daniel Nascimento - daniel.nascimento@prumologistica.com.br		Y	Prumo Data Base	Barra do Furado, Farol, Farolzinho, Maria Rosa, , Iquipari, Grussaí, Atafona, Caminho das Conchas, Balneá	2010	2017	Y	Y	Y	Y	N	Y	

																rio, Chapeu do Sol, Pontal, Balneario									
T4.13	CM-SW ATL	Brazil	South America/ Brasil, Paraná	Marine mega-fauna and environmental health	juvenile; feeding; Southwest Atlantic	2012	ongoing	UFPR - CEM	Public	UFPR/UEL	published articles		Ana Paula Frederico Rodrigues Loureiro Bracarense anapaula@uel.br, Camila Domit cadomit@gmail.com		Y		Bahia de Paranaguá - Paraná	2010	2017	Y	N	Y	Y	N	Y	10, 11, 12, 13
T4.14	CM-CC-SW ATL	Brazil	South America/ Brasil, Rio	Caminho Marinho - feeding area monitoring	juvenile; feeding; Southwest	2010	ongoing	NGO	Private	Caminho Marinho	Bortolotto, J., Steigleder, K. M. e Martinez-Souza, G. 2012.		Gustavo Martinez Souza gustavo marsouza@gmail.com,												

			Grande do Sul		Atlantic						Projeto Caminho Marinho: monitoramento da frota pesqueira artesanal como conhecimento de tartarugas marinhas em áreas de alimentação no sul do brasil. Anais do III Simpósio Acadêmico de Biologia Marinha SABMAR. ImbéTramandaí/RS. Martinez-Souca, G. CROSSING SPACE AND TIME WITH		caminhomarinho@gmail.com												

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											BASED APPROACH. 2013. Proceedings of the Thirty-Third Annual Symposium on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NOAA NMFS-SEFSC-645: 263 p.														
T4.15	EI - SW ATL	Brazil	South America/ Brasil, Alagoas sothern coast	Projeto Biota-Mar	Tracking; Nesting female; southwest Atlantic	2015	2019	Instituto Biota de Conservação	Public	Empreendimento Saint Michel	-		Bruno Stefanis (brunostefanis@gmail.com)	Waltyane Bonfim (waltyane_agb@hotmail.com)	Y	SITAMAR		1982	2017	N	Y	Y	Y/N	N	Y	T4.15

T4.16	EI - SW ATL	Brazil	South America/ Brasil, Alagoas and Maceio northern coast	Projeto para Criação da Área de Relevante Interesse Ecológico das Tartarugas Marinhas	Tracking; Nesting female; southwest Atlantic	2016	2017	Instituto Biota de Conservação	Public	Fundação SOS Mata Atlântica, Ufal, Governo de Alagoas, Prefeitura de Maceió	Salgueiro, L.C.S., Bonfim, W.A.G., Stefanis, B.S.P.O., Almeida, A.J.P., Lima, L.R., Leal, S. Estudo técnico para criação da unidade de conservação municipal Área de Relevante Interesse Ecológico Costeiro-Marinha das Tartarugas – Maceió/AL. 118p. Maceió: 2017.	Luciana Salgueiro	Waltyane Bonfim (waltyane_agb@hotmail.com)								N	Y					T4.16	EI - SW ATL
T4.17	EI - SW ATL	Brazil	South America/ Bras	Projeto Biota-Mar	Tracking; Nesting	2018	2018	Instituto Biota de Cons	Public	PGS, Fundação Toyota do	Stefanis, B.S.P.O., Bonfim, W.A.G., Salgueiro,		Bruno Stefanis (brunostefanis@	Waltyane Bonfim (waltya						N	Y				T4.17

			il,Alagoas		female; southwest Atlantic			ervação		Brasil, SOS Mata Atlântica, Ufal, Copra Alimentos, Governo de Alagoas, Prefeitura de Maceió	L.C.S., et al. Projeto de monitoramento de praias em Alagoas com esforço sistemático diário: principais resultados e a importância dos PMPs para o fomento da conservação e pesquisa. In: IBAMA e Indústria de Pesquisa Sísmica: em busca do conhecimento e sustentabilidade através do licenciame		gmail.com)	ne_agb@hotmail.com)												

										nto ambiental. 1ª Edição. Rio de Janeiro. Mind Duet Comunicação e Marketing. 2020														
T4.18	EI - SW ATL	Brazil	America do Sul/ Brasil, Nordeste, Alagoas nothern and central coast	Projeto Biota-Mar	Tracking; Nesting female; southwest Atlantic	2016	emandamento	Instituto Biota de Conservação	Public	Fundação Toyota do Brasil, SOS Mata Atlântica, Ufal, Copra Alimentos, Governo de Alagoas, Prefeitura de	(1) Stefanis, B.S.S.P., Bonfim, W.A.G., Santos, C.R.M., et al. Instituto Biota de Conservação: Pesquisa e Conservação de Tartarugas Marinhas no Estado de Alagoas. In: Correia, J.M.S., Santos, E.M., Moura,	Bruno Stefanis (brunostefanis@gmail.com)	Waltyane Bonfim (waltyane_agb@hotmail.com)						N	Y					T4.18	EI - SW ATL

										Maceió	G.J.B. (Org.) Conservação de Tartarugas Marinhas no Nordeste do Brasil: Pesquisas, Desafios e Perspectivas. Editora universitária da UFRPE, p. 169-190. Recife: 2016. ISBN 978.85.7946.238-2. / (2) Stefanis, B.S.P.O., Bonfim, W.A.G. et al. Registros de encalhes de tartarugas marinhas no extremo															

											sul da Apa Costa dos Corais: a importância do monitoramento comunitário. Seminário de Pesquisa Apa Costa dos Corais: Prioridades para a conservação da biodiversidade. Tamandaré: 2016. / (3) Marques, O.K.L., Bonfim, W.A.G., Salgueiro, L.C.S., et al. Ocorrências reprodutivas de tartarugas															

											marinhas, nas temporadas 2011 a 2017 em áreas monitoradas de Alagoas, nordeste do Brasil. I Simpósio sobre Pesquisa e Conservação de Tartarugas Marinhas. Natal: 2017. / (4) Silva-Stefanis, E.A., Bonfim, W.A.G., Stefanis, B.S.P.O., et al. Encalhes de tartarugas marinhas: registros da participaçã o															

											comunitária e de programas de monitoramento de praias em Alagoas. I Simpósio sobre Pesquisa e Conservação de Tartarugas Marinhas. Natal: 2017. / (5) Bonfim, W. A. G., Santos, C.R. Stefanis, B. S. P. O., et al. Estudos técnicos e proposta de criação de unidade de conservação em área reprodutiva de tartarugas marinhas.															

										In: Anais do 1º Simpósio sobre pesquisa e conservação de tartarugas marinhas. 58p. Natal: 2017 / (6)														
T4.19	EI - SW ATL	Brazil	South America/ Brasil, Rio Grande do Norte	Universidade do Estado do Rio Grande do Norte - Projeto Cetáceos da Costa Branca	Nesting; stranding; southwest Atlantic; Eretmochelys imbricata; lepidochelys olivacea, Caretta	2009	2019	Universidade do Estado do Rio Grande do Norte - Proejto Cetáceos da Costa Branca	Public	Petrobrás	Relatório Final de Projeto de Monitoramento de Praias, Petrobrás.							N	Y					T4.19	EI - SWATL	Brazil

					caretta, Dermochelys coreacea, Cheloniamydas																			
T4.20	EI - SW ATL	Brazil	South America/ Brasil, Rio Grande do Norte	Universidade do Estado do Rio Grande do Norte - Projeto Cetáceos da Costa Branca	Nesting; stranding; southwest Atlantic	2009	2019	Universidade do Estado do Rio Grande do Norte - Proejto Cetáceos da Costa Branca	Public	Petrobras	COSTA, S.A.G.L., F.J.L. SILVA, D.S.D. FARIAS, A.B.L. FRAGOSO, T.E.B. Costa, A.E.B. Alencar. 2016. Pesquisa e Conservação de Tartarugas Marinhas na Bacia Potiguar, Rio Grande do Norte,						N	Y					T4.20	EI-SWATL	Brazil	South America/ Brasil, Rio Grande do Norte

											Nordeste do Brasil. páginas 257 em: J.M.S. Correia, E.M. Santos, e G.J.B. Moura (Eds). Conservação de Tartarugas Marinhas no Nordeste do Brasil: Pesquisas, Desafios e Perspectivas. Recife: EDUFRPE.														
T4.21	EI - SW ATL	Brazil	South America/ Brasil, Rio Grande do Norte	Universidade do Estado do Rio Grande do Norte - Projeto Cetáceos da Costa Branca	Nesting; stranding; southwest Atlantic	2009	Atual	Universidade do Estado do Rio Grande do Norte - Proejto	Public	Petrobras	FARIAS, D.S.D.; Alencar, A, E, B.; Bomfim, A. C.; Fragoso, A,B,L.; Rossi, S.; Moura, G.J.B.; Gavilan,						N	Y					T4.21	EI-SWATL	Brazil	South America/ Brasil, Rio Gr

								Cetáceos da Costa Branca			S.A; Silva, F. J.L.(2019) Marine Turtles Stranded in Northeastern Brazil: Composition, Spatio-Temporal, Distribution, and Anthropogenic Interactions. Chelonian Conservation and Biology, v.18(1), p.105–111.															and do Norte
T4.22	EI - SW ATL	Brazil	South America/ Brasil, Rio Grande do	Universidade do Estado do Rio Grande do Norte - Projeto Cetáceos da Costa Branca	Nesting; stranding; southwest Atlantic	2019	2019	Universidade do Estado do Rio Grande do Norte - Proejt	Public	SPECTRUM -	Relatório Final de Projeto de Ampliação do Projeto de Monitoramento de Praias da Bacia Potiguar									N	Y					T4.22

			Norte					o Cetáceos da Costa Branca			(PMP-BP), Spectrum. 2019.															
T4.23	EI - SW ATL	Brazil	South America/ Brasil, Pernambuco, Ipojuca coast	Monitoramento de desovas nas praias do Munícipio do Ipojuca, Pernambuco, Brasil	Eretmochelys imbricata; Meiofauna; Macrofauna; Bioengineering; Facilitation; Biological interactions; Epifaunal recr	2010	2011	ONG Ecoassociados	Public	UFPE	Côrrea, G. V. V. et al, 2014. Diversity and composition of macro and meiofaunal carapace epibionts of the hawksbill sea turtle (Eretmochelys imbricata Linnaeus, 1822) in Atlantic waters. Marine Biodiversity, Volume 44, Issue 3, pp 391–401	Gustavo Valença Vasconcelos Corrêa giopaiva@hotmail.com							N	Y					T4.23	EI - SW ATL

					uitment																			
T4.24	EI - SW ATL	Brazil	South America/ Brasil, Pernambuco, Ipojuca coast	Monitoramento de desovas nas praias do Munícipio do Ipojuca, Pernambuco, Brasil	Eggshell; fungi; Fusarium; Hawksbill; testudines	2011	2011	ONG Ecoassociados	Public	UPE/ Prefeitura do Ipojuca	Neves, M. S. C. et al, 2015. Mycobiota from the eggs, nests and stillbirths of Eretmochelys imbricata Linneus 1766 (Testudines: Cheloniidae) in Pernambuco State, Brazil. African Journal of Microbiology Research, Vol. 9(17), pp. 1195-1199, 29	Milena Santos Costa Neves (milenascn@hotmail.com)	Luciana Gonçalves de Oliveira						N	Y					T4.24	EI - SW ATL

T4.25	EI - SW ATL	Brazil	South America/ Brasil, Pernambuco, Ipojuca coast	Monitoramento de desovas nas praias do Munícipio do Ipojuca, Pernambuco, Brasil	Anthropogenic impacts; cheloniidae; conservation; hawksbill turtle; light pollution	2012	2012	ONG Ecoassociados	Public	UESC/Prefeitura do Ipojuca	Simões, T. N. et al, 2017. Influence of artificial lights on the orientation of hatchlings of Eretmochelys imbricata in Pernambuco, Brazil. Zoologia (Curitiba) vol.34 Curitiba.	Thyara Noely Simões (thyara.noely@gmail.com)	Arley Cândido da Silva (ecoassociados.projeto@gmail.com)						N	Y					T4.25	EI - SW ATL
T4.26	EI - SW ATL	Brazil	South America/ Brasil, Pernambuco, Ipojuca coast	Monitoramento de desovas nas praias do Munícipio do Ipojuca, Pernambuco, Brasil	Ipojuca; Quelônios; Testudines; Eretmochelys imbricata	2000	2008	ONG Ecoassociados	Public	UFRPE/Prefeitura do Ipojuca	Guimarães, E. S. et al, 2011. Aspectos Ecológicos de *Eretmochelys imbricata* entre os anos 2000 e 2008 nas praias de Ipojuca-	Elisângela da Silva Guimarães (e.s.g.ambiental@gmail.com)	Arley Cândido da Silva (ecoassociadosprojeto@gmail.com)						N	Y					T4.26	EI - SW ATL

					; Caretta caretta.						PE e lista comentada das espécies de tartarugas marinhas ocorrentes no Estado de Pernambuco. Herpetologia do Estado de Pernambuco. 1. ed. Brasília: Ministério do Meio Ambiente. v. 1, p. 307-317.														
T4.27	EI - SWATL	Brazil	South America/ Brasil, Pernambuco, Ipojuca coast	Monitoramento de desovas nas praias do Munícipio do Ipojuca, Pernambuco, Brasil	2000	2013	ONG Ecoassociados	Public	UFRPE/Prefeitura do Ipojuca	Simões, T. N. et al, 2016. Ecoassociados e história de cons	Thyara Noely Simões (thyara.noely@gmail.com)	Arley Cândido da Silva (ecoassociados.projeto@g						N	Y					T4.27	EI - SWATL	Brazil

										ervação das tartarugas marinhas em Pernambuco. Conservação de Tartarugas Marinhas no Nordeste do Brasil. ED. UFRPE, 253 p.		mail.com)														
T4.28	EI - SW ATL	Brazil	South America/ Brasil, Pern	Feeding. Trophic Ecology. Herbivorous	2016	2018		Public		Rodrigues, M. S. et al, 2019.													T4.28	EI - SWATL	Brazil	South Amer	Fediing. Trophic Ec

			ambuco						CONTRIBUTION TO THE STUDY OF THE GREEN TURTLE (CHELONIA MYDAS) DIET IN THE SOUTH ATLANTIC, NORTHEAST BRAZIL. International															ica/Brasil, Pernambuco	ology. Herbivorous

										Journal of Development Research Vol. 09, Issue, 09, pp. 29891-29897, September, 2019															
T4.29	EI - SW ATL	Brazil	South America/ Brasil, Pernambuco, Ipojuca coast	Monitoramento de desovas nas praias do Munícipio do Ipojuca, Pernambuco, Brasil	2015	2015	ONG Ecoassociados	Public	UFPE/ Prefeitura do Ipojuca	Simões, T. N. et al, 2019. Heavy metals in blood and in nests affec													T4.29	EI - SWATL	Brazil	South America/ Brasil, Per	Monitoramento de desovas nas praias do Munícíp

										t reproduction parameters in Eretmochelys imbricata, Linnaeus, 1766 (Testudines: cryptodira). Ecotoxicol. Environ. Contam., v. 14, n. 1, 2019, 65-72 doi: 10.5132/															namb uco, Ipoj uca coast	ipio do Ipoj uca, Pernamb uco, Brasil

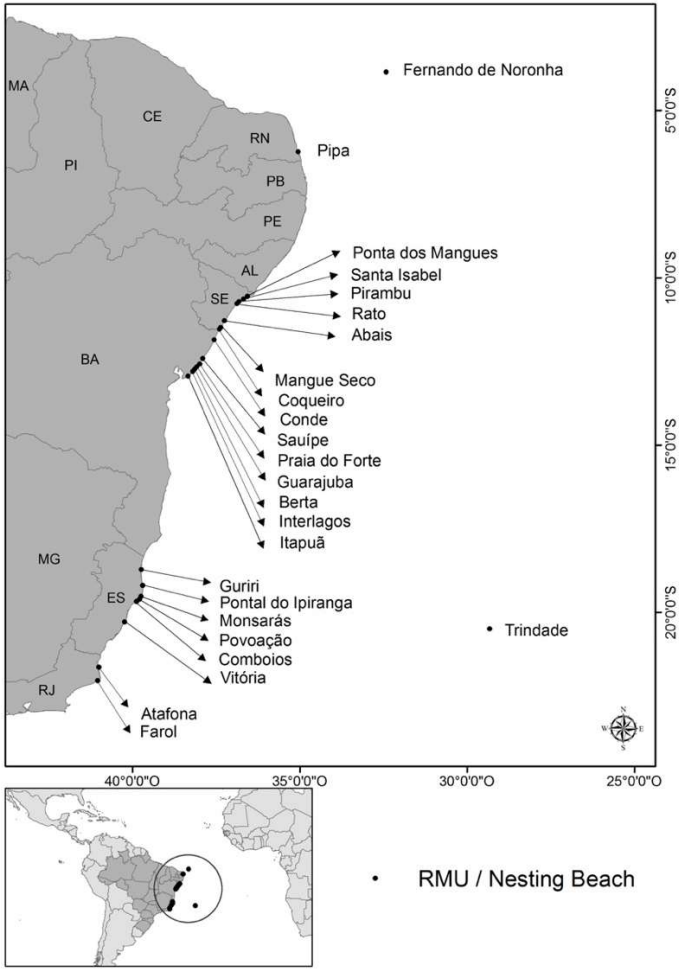
										eec.2019.01.08															
T4.30	CC-SW ATL	Brazil	South America/ Brasil, Rio Grande do Norte/Nísia Floresta coast / Búzios beach	Projeto Ponta de Pirangi (linha específica: Monitoramento da Praia de Búzios), Rio Grande do Norte, Brasil	Hawksbill turtle; Nesting female; Conservation.	2018	2020	Oceânica - Pesquisa, Educação e Conservação	Civil Society Organization	Bellini, Claudio; Vieira, Daniel Henrique Gil; Bezerra, Jéssica de Paiva; Santos, Armando José Barsante. TARTARUGAS MARINHAS														T4.30	CC-SW ATL

										NO LITORAL SUL DO RIO GRANDE DO NORTE – UMA SÍNTESE. APARECIFES DE PIRANGI Proposta de Criação de Área Protegida Costeira-Marinha															

										no Rio Grande do Norte. Cap. 5, p. 53, 2020. Disponível em: https://oceanica.org.br/ponta-de-pirangi/ Bezerra e Rocha. Monitoramento da Praia de Búzios: por																

										onde andam tartarugas e veículos? Que litoral queremos? Cap. 4, p. 115-123, 2020															
T4.31	DC-new ATL	Brazil	South America/ Brasil, Piauí	Instituto Tartarugas do Delta	Nesting	2007	ongoing		NGO				Werlanne Magalhães, Instituto Tartarugas do Delta (institutotartarugasdodelta@gmail.com)													

Figures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RMU / Nesting Beach

Figure 1. Brazilian sea turtle nesting Sites

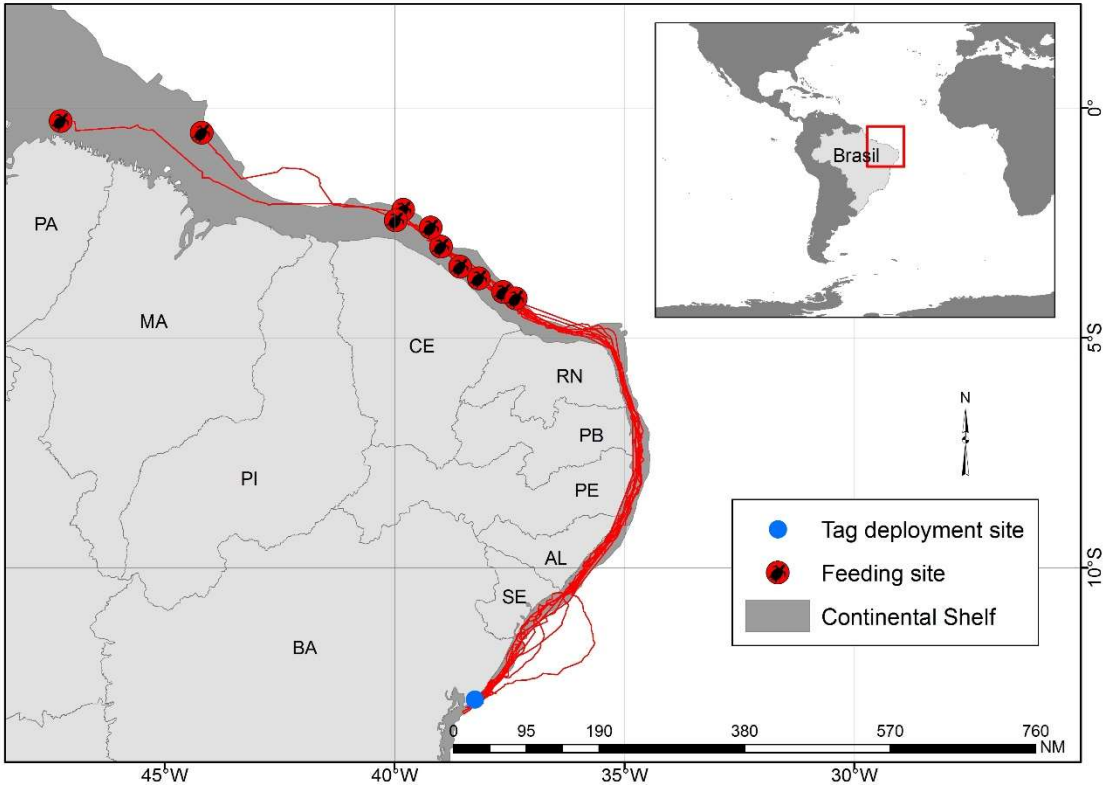

Figure 2. Post-nesting migrations and feeding grounds of 10 female loggerhead turtles satellite-tracked from nesting beaches along the northern coast of Bahia, Brazil (Table R #78)

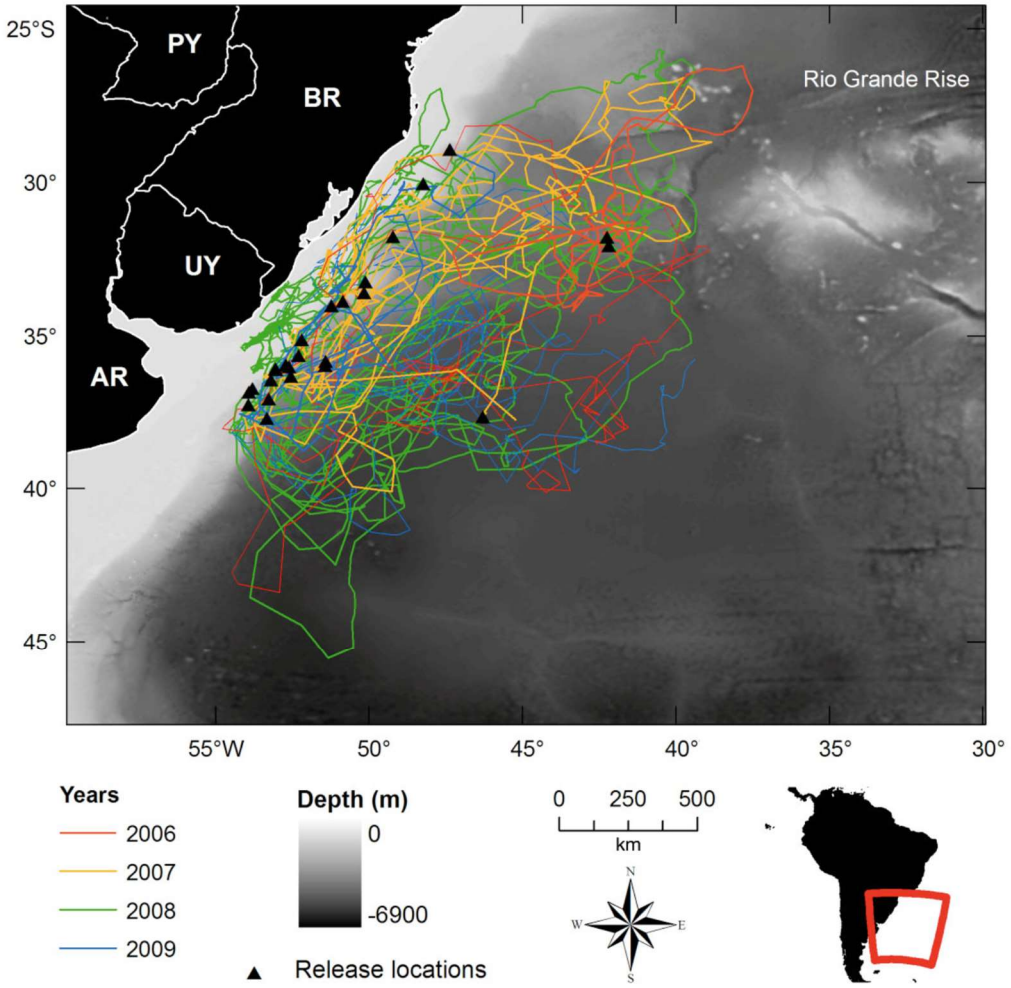

Figure 3. Movement paths of 26 immature loggerheads in the SW Atlantic Ocean between 2006 and 2010. (Table R #1)

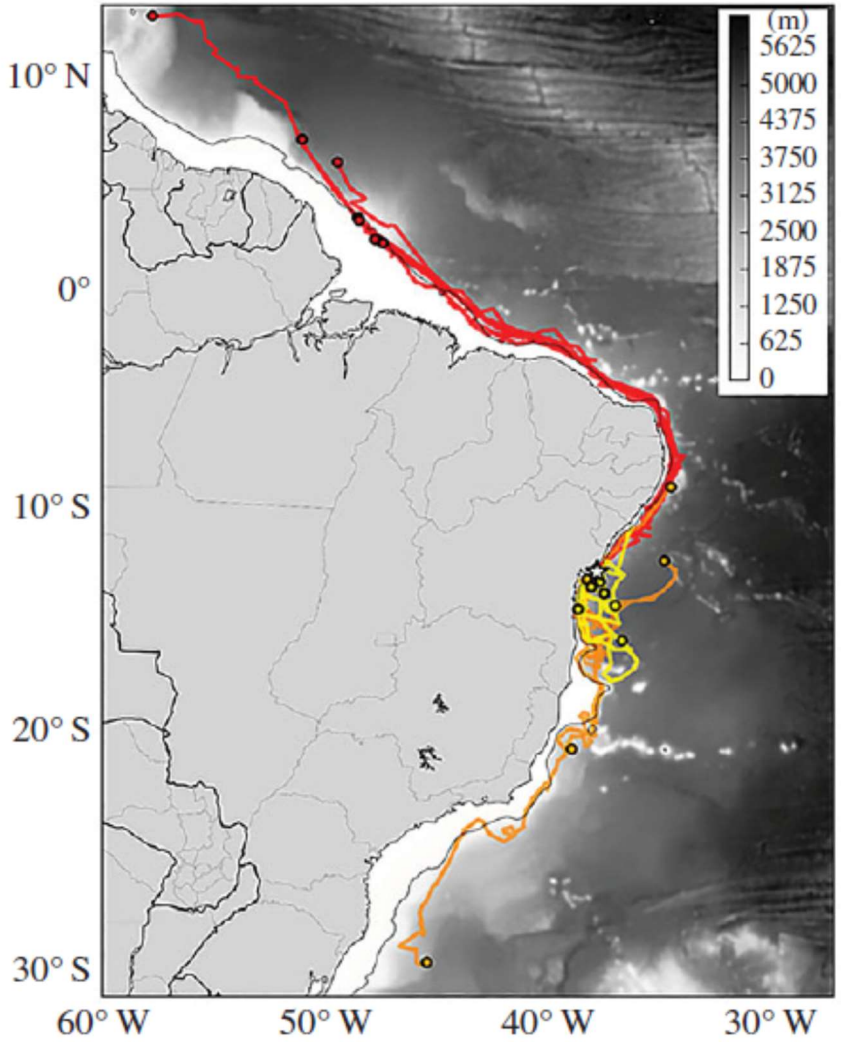

Figure 4. Satellite tracks of 19 yearling loggerhead sea turtles released from Praia do Forte, Bahia, Brazil. (Table R #82)

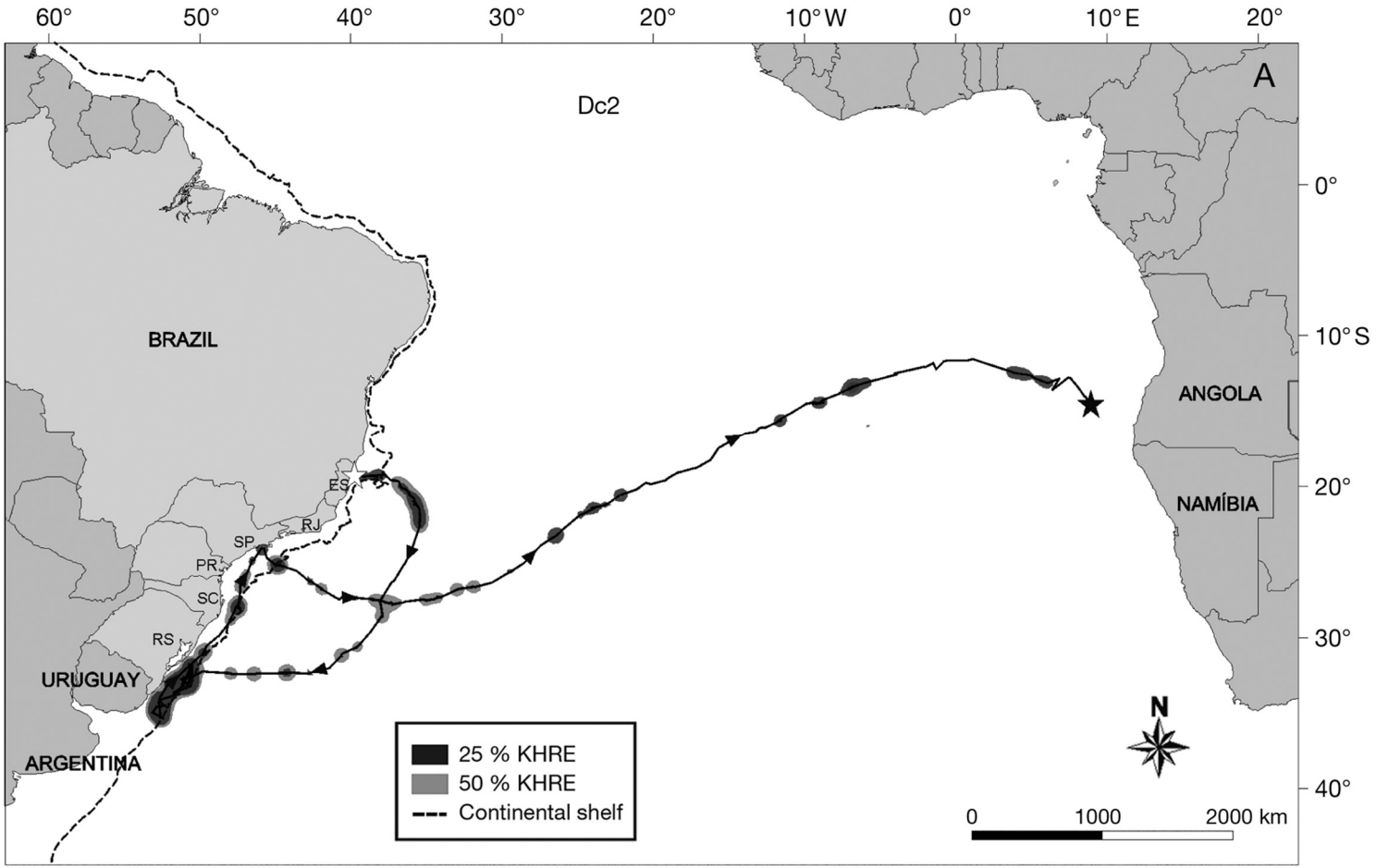

Figure 5. Kernel estimated home range utilization distributions (25 and 50% KHRE) and migratory paths of 2 postnesting female leatherbacks tracked from Espírito Santo, Brazil, and 1 female leatherback caught in a drift net off the State of São Paulo, Brazil. Open stars indicate tracking starting point; black stars show last transmission. (Table R #122)

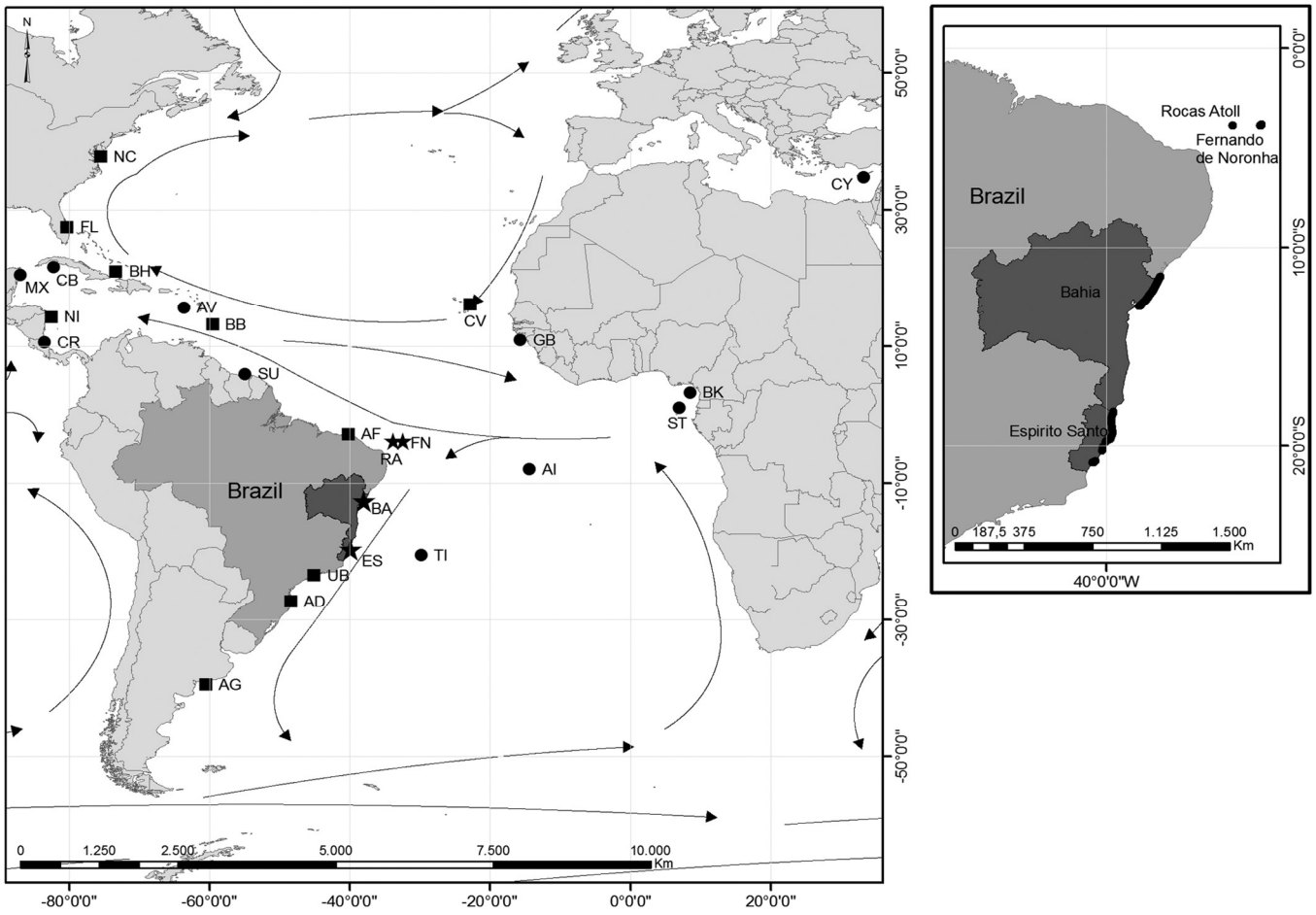

Figure 6. Location of the Rocas Atoll (RA), Fernando de Noronha (FN), Bahia (BA), and Espirito Santo (ES) study sites(symbolized by stars) with respect to general oceanic circulation patterns shown as arrows, and other *Chelonia mydas* groups previously subject to genetic analysis. (Table R#192)

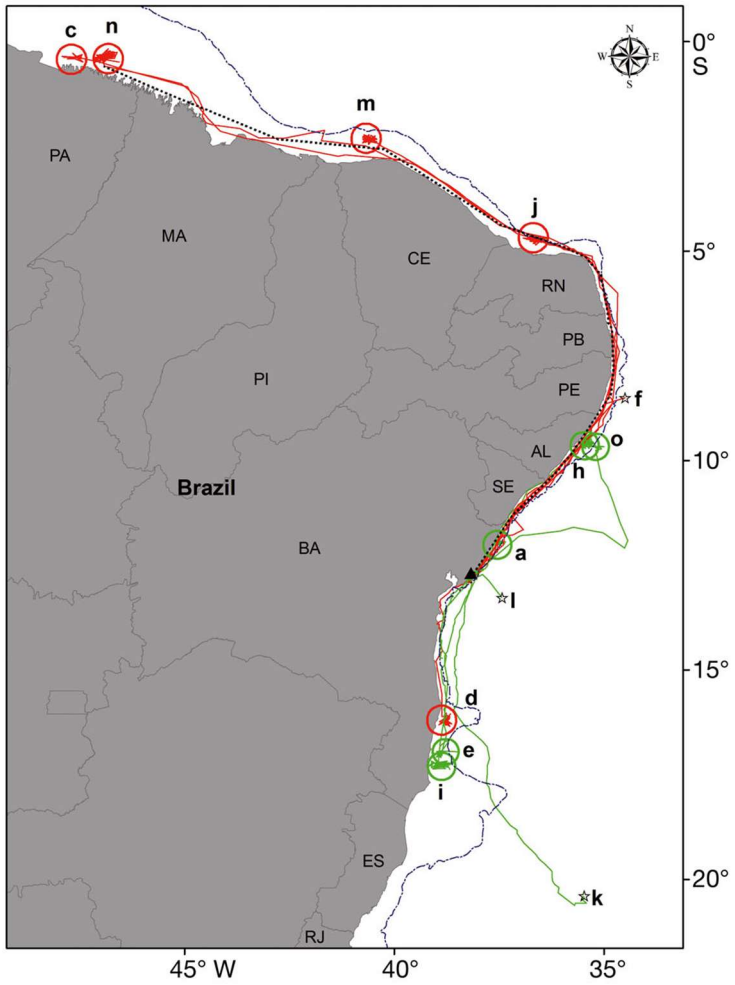

Figure 7. Migratory paths and foraging areas of hawksbill turtles satellite-tracked from nesting grounds in northern Bahia, Brazil (n = 15). Lower case letters: individual turtles; circles: foraging areas (green: hawksbills; red: hawksbill-loggerhead hybrids) (Table R #81)

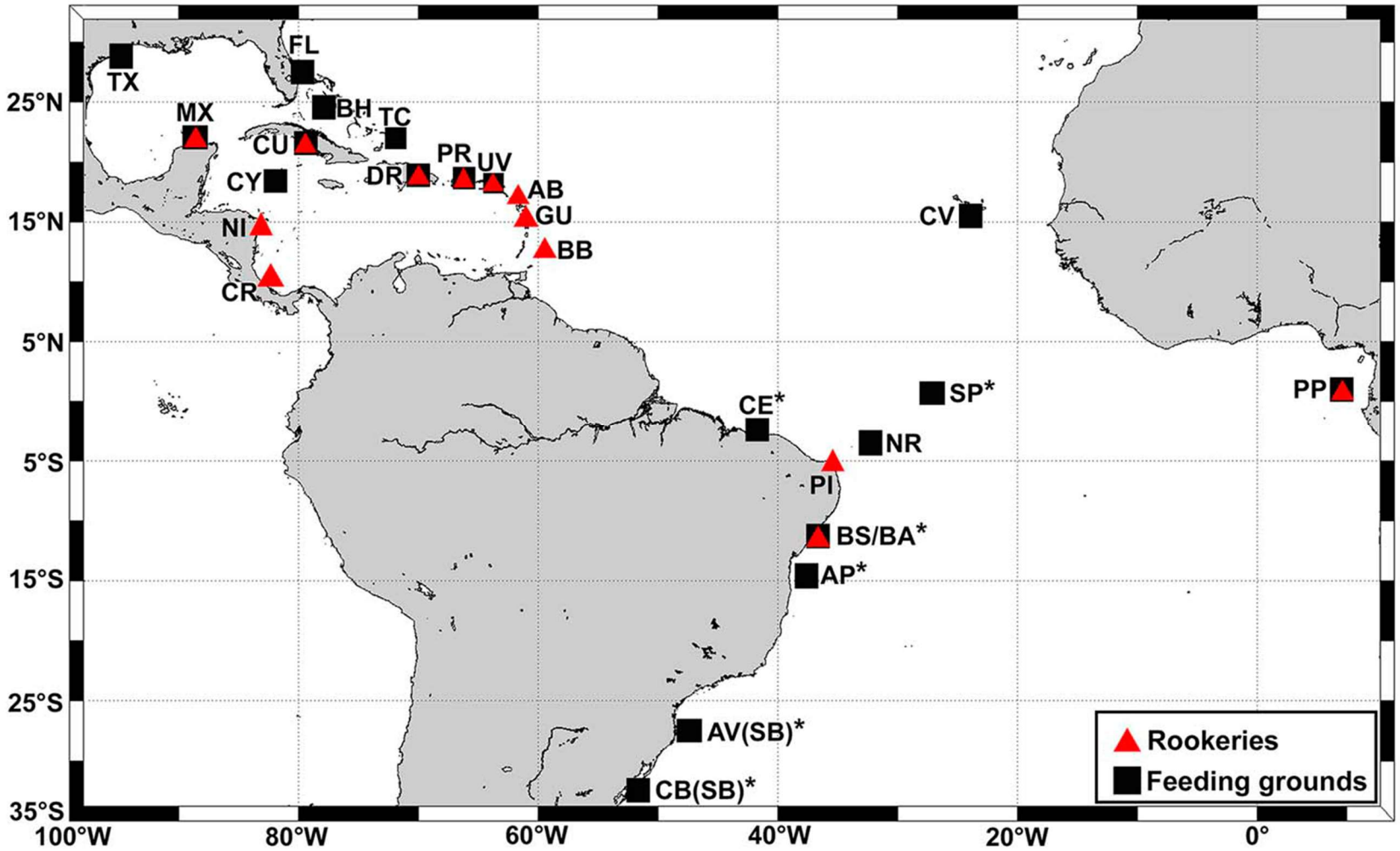

Figure 8. Locations of genetically described hawksbill populations in the Atlantic; map shows rookeries (red triangles) and feeding grounds (black squares) (Table R #65)

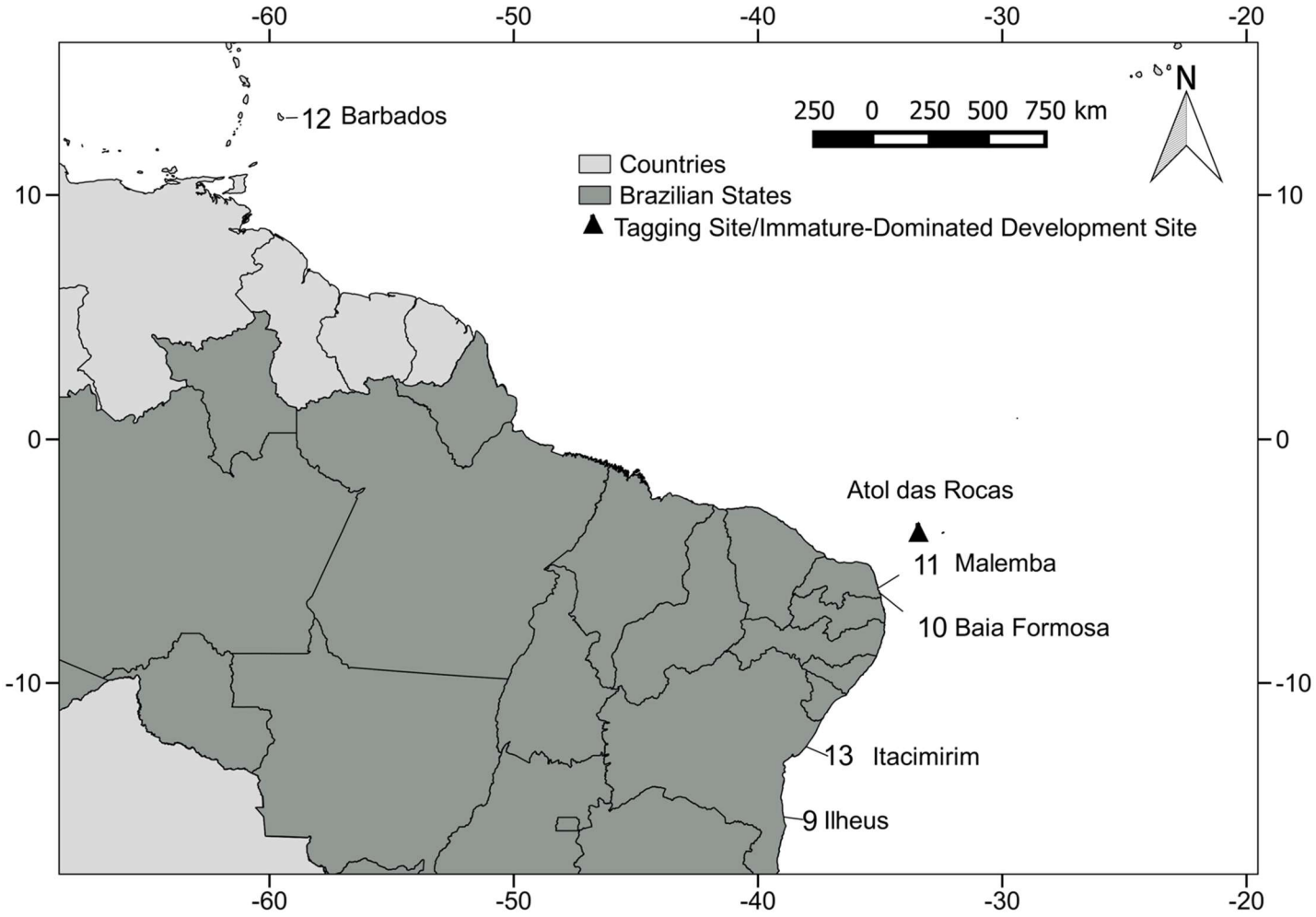

Figure 9. Nesting beach locations of five hawksbills (*Eretmochelys imbricata*) originally tagged as juveniles in Atol das Rocas, Brazil. Numbers correspond to nesting beaches (Table R #74).

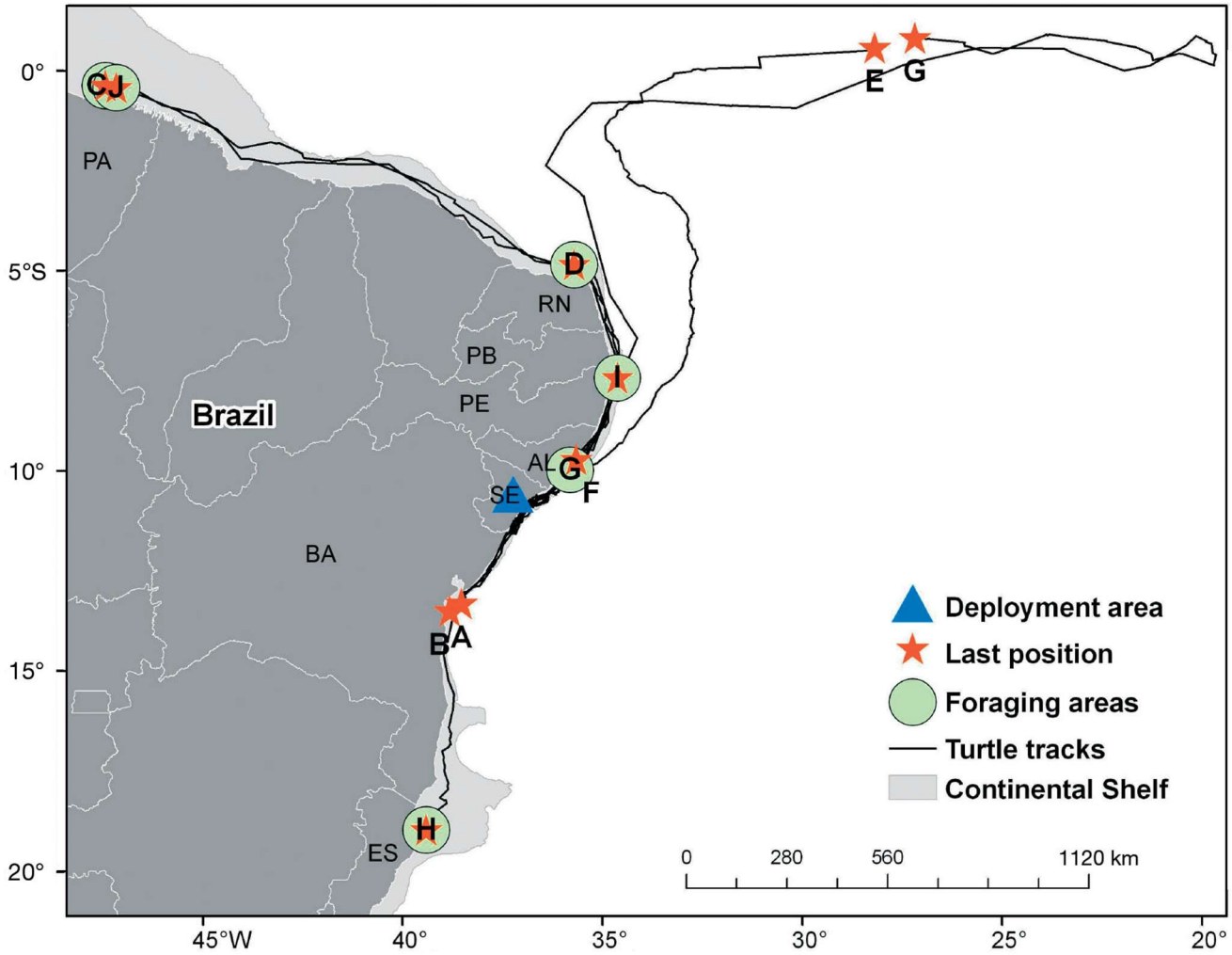

Figure 10. Post-nesting movements of olive ridley turtles satellite tracked from their nesting grounds in Sergipe (Table R #83)

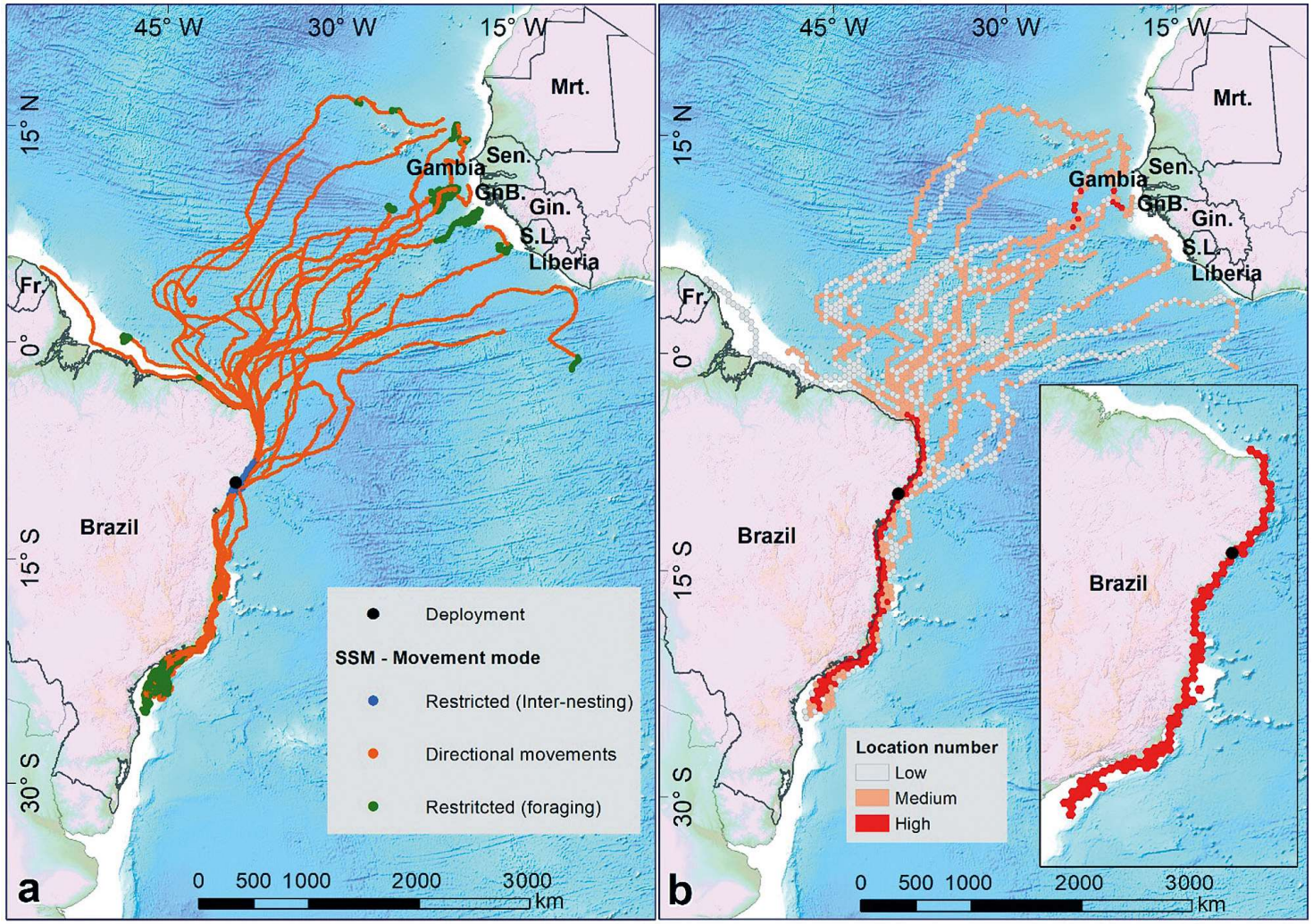

Figure 11. Olive ridley post-reproductive displacement. (a) State-space model predicted behavior; (b) weighted point density per 25 km hexagon (Table R #225)

References

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URUGUAY

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1. RMU: CC-SW ATL

1.1. Distribution, abundance, trends

1.1.1. Nesting sites

Not apply

1.1.2. Marine areas

Movement paths and pelagic foraging areas of immature loggerheads in the SW Atlantic are displayed in Fig. 1 (Table R # 1), while distribution of strandings are showed in Fig. 2 the high concentrations of stranding reflect the coastal foraging areas of large juvenile and adult loggerhead turtles (Table R # 33).

1.2. Other biological data

Please see Table 1.

1.3. Threats

1.3.1. Nesting sites

Not apply.

1.3.2. Marine areas

Please see Table 1.

1.4. Conservation

Protection status: see Table 1 for national laws (Table R # 6, 7, 46) and Table 3 for international conventions. Long-term non-governmental program is listed in Table 4.

1.5. Research

Key knowledge gaps about currently bycatch numbers by artisanal and industrial Uruguayan fleet and other international fleet operating in the area.

2. RMU: DC-SW ATL

2.1. Distribution, abundance, trends

2.1.1. Nesting sites

Not apply.

2.1.2. Marine áreas
Movement paths and pelagic foraging areas of immature and adult leatherback turtles in the SW Atlantic are displayed in Fig. 3 (Table R # 22), while distribution of strandings of large juvenile and adult leatherback turtles are showed in Fig. 2 the high concentrations of stranding reflect the coastal foraging areas (Table R # 33).

2.2. Other biological data
Please see Table 1.

2.3. Threats
2.3.1. Nesting sites
Not apply.

2.3.2. Marine areas
Please see Table 1.

2.4. Conservation
Protection status: see Table 1 for national laws (Table R # 6, 7) and Table 3 for international conventions. Long-term non-governmental program is listed in Table 4.

2.5. Research
Key knowledge gaps about currently bycatch numbers by artisanal and industrial Uruguayan fleet and other international fleet operating in the area.

3. RMU: CM-SW ATL
3.1. Distribution, abundance, trends
3.1.1. Nesting sites
Not apply.

3.1.2. Marine areas
Movement paths and foraging areas of immature green turtles in the SW Atlantic are displayed in Fig. 5 (Table R # 42), while distribution of strandings of immature green turtles are showed in Fig. 2 the high concentrations of stranding reflect the coastal foraging areas of this specie (Table R # 33).

3.2. Other biological data
Please see Table 1.

3.3. Threats
3.3.1. Nesting sites
Not apply.

3.3.2. Marine areas
Please see Table 1.

3.4. Conservation
Protection status: see Table 1 for national laws (Table R # 6, 7, 46) and Table 3 for international conventions. Long-term non-governmental program is listed in Table 4.

3.5. Research
Key knowledge gaps about currently bycatch numbers by artisanal and industrial Uruguayan fleet and other international fleet operating in the area.

4. RMU: CM-SC ATL
4.1. Distribution, abundance, trends
4.1.1. Nesting sites
Not apply.

4.1.2. Marine areas
Movement paths and foraging areas of immature green turtles in the SW Atlantic are displayed in Fig. 5 (Table R # 42), while distribution of strandings of immature green turtles are showed in Fig. 2 the high concentrations of stranding reflects the coastal foraging areas (Table R # 33).

4.2. Other biological data
Please see Table 1.

4.3. Threats
4.3.1. Nesting sites
Not apply.

4.3.2. Marine areas
Please see Table 1

4.4. Conservation
Protection status: see Table 1 for national laws (Table R # 6, 7, 46) and Table 3 for international conventions. Long-term non-governmental program is listed in Table 4.

4.5. Research
Key knowledge gaps about currently bycatch numbers by artisanal and industrial Uruguayan fleet and other international fleet operating in the area.

5. RMU: EI-SW ATL
5.1. Distribution, abundance, trends
5.1.1. Nesting sites
Not apply.

5.1.2. Marine áreas
Distribution of strandings of hawksbill turtles are showed in Fig. 2 (bottom panel) (Table R # 33).

5.2. Other biological data
Please see Table 1.

5.3. Threats

5.3.1. Nesting sites
Not apply.

5.3.2. Marine areas
Please see Table 1.

5.4. Conservation
Protection status: see Table 1 for national laws (Table R # 6, 7, 46) and Table 3 for international conventions. Long-term non-governmental program is listed in Table 4.

5.5. Research
Key knowledge gaps about the habitat utilization, movements and threats in this area. Existing genetic data about hybrids specimens reported in this area but unpublished data that should be urgently published

6. RMU: LO-SW ATL
6.1. Distribution, abundance, trends
6.1.1. Nesting sites
Not apply.

6.1.2. Marine áreas
Distribution of strandings of olive Ridley turtles are showed in Fig. 2 (bottom panel) (Table R # 15, 33).

6.2. Other biological data
Please see Table 1.

6.3. Threats
6.3.1. Nesting sites
Not apply.

6.3.2. Marine areas
Please see Table 1.

6.4. Conservation
Protection status: see Table 1 for national laws (Table R # 6, 7, 46) and Table 3 for international conventions. Long-term non-governmental program is listed in Table 4.

6.5. Research

Key knowledge gaps about the habitat utilization, movements and threats in this area

Tables

Table 1

RMU	CC-SWA	Ref #	CM-SWA	Ref #	CM-SCA	Ref #	DC-SWA	Ref #	EI-SWA	Ref #	LO-WA	Ref #
Occurrence												
Nesting sites	N		N		N		N		N		N	
Pelagic foraging grounds	J,A	1, 26	J	27, 33, 34	J	27, 33, 34	J,A	13, 22	n/a	34	n/a	15, 34
Benthic foraging grounds	J,A	26, 33, 34	J	24, 27, 33, 34	J	24, 27, 33, 34	J,A	13, 33, 22	n/a	34	n/a	15, 34
Key biological data												
Nests/yr: recent average (range of years)	n/a		n/a		n/a		n/a		n/a		n/a	
Nests/yr: recent order of magnitude	n/a		n/a		n/a		n/a		n/a		n/a	
Number of "major" sites (>20 nests/yr AND >10 nests/km yr)	n/a		n/a		n/a		n/a		n/a		n/a	

Number of "minor" sites (<20 nests/yr OR <10 nests/km yr)	n/a		n/a		n/a		n/a		n/a		n/a	
Nests/yr at "major" sites: recent average (range of years)	n/a		n/a		n/a		n/a		n/a		n/a	
Nests/yr at "minor" sites: recent average (range of years)	n/a		n/a		n/a		n/a		n/a		n/a	
Total length of nesting sites (km)	n/a		n/a		n/a		n/a		n/a		n/a	
Nesting females / yr	n/a		n/a		n/a		n/a		n/a		n/a	
Nests / female season (N)	n/a		n/a		n/a		n/a		n/a		n/a	
Female remigration interval (yrs) (N)	n/a		n/a		n/a		n/a		n/a		n/a	
Sex ratio: Hatchlings (F / Tot) (N)	n/a		n/a		n/a		n/a		n/a		n/a	
Sex ratio: Immatures (F / Tot) (N)	n/a		n/a		n/a		n/a		n/a		n/a	
Sex ratio: Adults (F / Tot) (N)	n/a		n/a		n/a		n/a		n/a		n/a	
Min adult size, CCL or SCL (cm)	n/a		n/a		n/a		n/a		n/a		n/a	
Age at maturity (yrs)	n/a		n/a		n/a		n/a		n/a		n/a	
Clutch size (n eggs) (N)	n/a		n/a		n/a		n/a		n/a		n/a	
Emergence success (hatchlings/egg) (N)	n/a		n/a		n/a		n/a		n/a		n/a	
Nesting success (Nests/ Tot emergence tracks) (N)	n/a		n/a		n/a		n/a		n/a		n/a	
Trends												

Recent trends (last 20 yrs) at nesting sites (range of years)	n/a		n/a		n/a		n/a		n/a		n/a	
Recent trends (last 20 yrs) at foraging grounds (range of years)	n/a		n/a		n/a		n/a		n/a		n/a	
Oldest documented abundance: nests/yr (range of years)	n/a		n/a		n/a		n/a		n/a		n/a	
Published studies												
Growth rates	Y	23	Y	2, 21, 27	Y	2, 21, 27	Y	23	N		N	
Genetics	Y	4, 5, 44	Y	3	Y	3	Y	36	Y	44	Y	15
Stocks defined by genetic markers	Y	5	Y	3	Y	3	Y	36	Y	44	N	
Remote tracking (satellite or other)	Y	1	Y	34	Y	34	Y	13, 22	N		N	
Survival rates	N		Y	21	Y	21	N		N		N	
Population dynamics	Y	33	Y	21, 33	Y	21, 33	Y	33	N		N	
Foraging ecology (diet or isotopes)	Y	26	Y	24, 32, 34	Y	24, 32, 34	Y	11	N		N	
Capture-Mark-Recapture	Y	16	Y	21, 27	Y	21, 27	N		N		N	
Threats												
Bycatch: presence of small scale / artisanal fisheries?	Y (SN)	25, 37, 45	Y (SN)	19, 30, 37	Y (SN)	19, 30, 37	Y (SN)	33, 37	n/a		n/a	

Bycatch: presence of industrial fisheries?	Y J,A (PLL, MT)	8, 17, 18, 14, 23, 25, 29, 45	Y (MT)	8, 17, 18	Y (MT)	8, 17, 18	Y (MT, PLL)	8, 12, 14, 17, 18, 29	n/a		n/a	
Bycatch: quantified?	PLL (3778), MT (99), SN(2)		MT (21), SN(21/68/4)		MT (21), SN(21/68/4)		MT (17), SN(21/1))		n/a		n/a	
Take. Intentional killing or exploitation of turtles	N		Y	28	Y	28	N		n/a		n/a	
Take. Egg poaching	n/a		n/a		n/a		n/a		n/a		n/a	
Coastal Development. Nesting habitat degradation	n/a		n/a		n/a		n/a		n/a		n/a	
Coastal Development. Photopollution	n/a		n/a		n/a		n/a		n/a		n/a	
Coastal Development. Boat strikes	J, A	45	Y	33	Y	33	N		n/a		n/a	
Egg predation	n/a		n/a		n/a		n/a		n/a		n/a	
Pollution (debris, chemical)	J,A	25, 26, 45	Y	31, 33, 34	Y	31, 33, 34	N		n/a		n/a	
Pathogens	N		Y	21	Y	21	N		n/a		n/a	
Climate change	N		N		N		N		n/a		n/a	
Foraging habitat degradation	J, A	45	Y	38	Y	38	N		n/a		n/a	

Other (negative interaction with invaseve wkelk snail *Rapana venosa, Hypothermic stunning, Port dredging, hibridation*)	Y	44	Y	20, 35, 39	Y	20, 35, 39	Y		Y	44	N	
Long-term projects												
Monitoring at nesting sites	n/a		n/a		n/a		n/a		n/a		n/a	
Number of index nesting sites	n/a		n/a		n/a		n/a		n/a		n/a	
Monitoring at foraging sites	Y	17, 21, 27, 33	Y	17, 21, 27, 33	Y	17, 33	Y	17, 33	n/a		n/a	
Conservation												
Protection under national law	Y	6,7, 46	Y	6,7, 46	Y	6,7, 46	Y	6,7, 46	Y	6,7, 46	Y	6,7, 46
Number of protected nesting sites (habitat preservation)	n/a		n/a		n/a		n/a		n/a		n/a	
Number of Marine Areas with mitigation of threats	0		2		2		0		0		0	
Long-term conservation projects (number)	>1		1		1		1		0		0	
In-situ nest protection (eg cages)	n/a		n/a		n/a		n/a		n/a		n/a	
Hatcheries	n/a		n/a		n/a		n/a		n/a		n/a	
Head-starting	N		n/a		n/a		n/a		n/a		n/a	

By-catch: fishing gear modifications (eg, TED, circle hooks)	Y	9,10	N		N		Y	9,10	n/a		n/a	
By-catch: onboard best practices	Y		n/a		n/a		n/a		n/a		n/a	
By-catch: spatio-temporal clo-sures/reduction	N		N		N		n/a		n/a		n/a	
Other (fishermen collaborative work)	Y	41	Y	41	Y	41	Y	41	N		N	

Table 3

International Conventions	**Signed**	**Binding**	**Compliance measured and reported**	**Species**
CITES	Y	Y	Y	Cc, Dc, Cm, Ei, Lo
Convenio RAM-SAR	Y	Y	Y	DC
CMS	Y	Y	Y	ALL
CONVEMAR	Y	Y	Y	ALL
CDB	Y	Y	Y	ALL

Figures

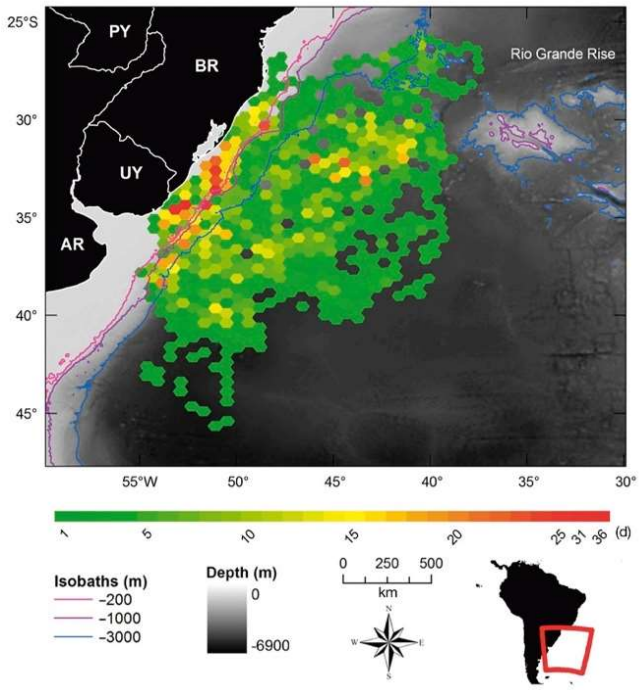

Figure 1. Spatial use of 26 immature loggerhead turtles tracked in the Southwestern Atlantic Ocean between 2006 and 2010. Color denotes the number of days a turtle spent within each hexagonal bin. Taken from Barcelo et al. 2013

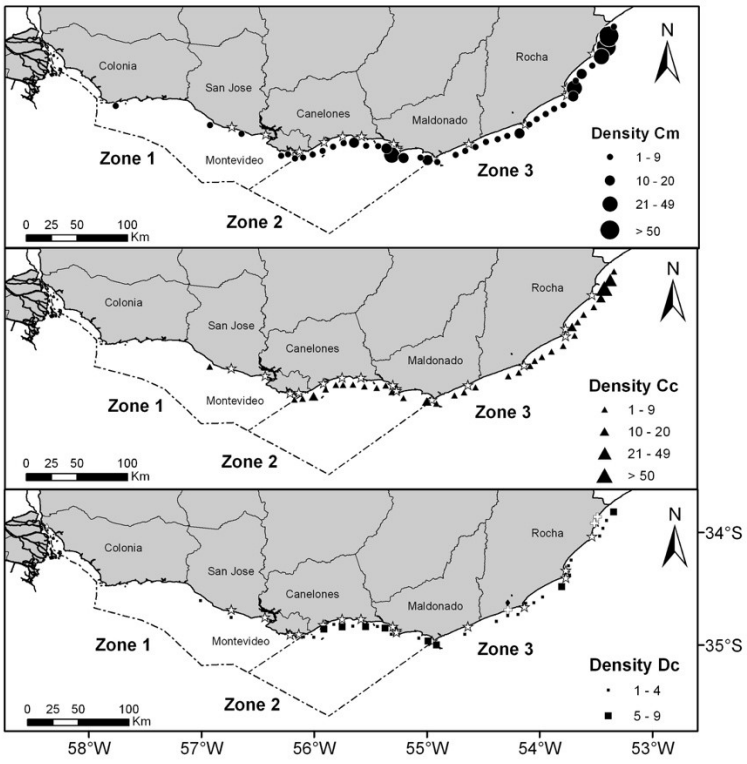

Figure 2. Stranding density (number of marine turtles stranded per 10 km sector) maps showing the Network records between 1999 and 2010. Each map shows the stranding density of the three most frequent species: a green (Cm, filled circle); b loggerhead (Cc, filled triangle); and c leatherback turtles (Dc, filled rectangle). In C, the white crosses indicate the stranding of the three hawksbill turtles and the black diamond indicates the one olive Ridley turtle. The stars indicate the main fishermen settlements and ports. Note the different ranges in density for the leatherback. Taken from Vélez-Rubio et al. 2013

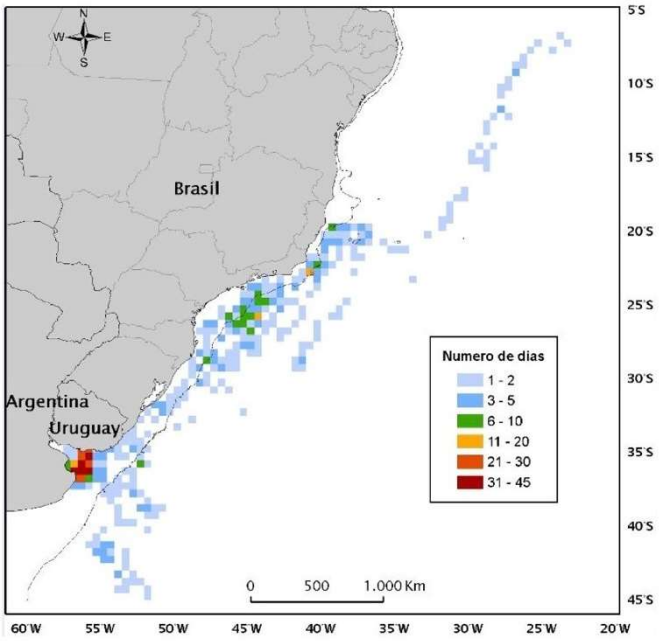

Figure 3. Habitat utilization by tracked leatherback turtles (n=4), using a single daily position, from their respective reconstructed routes. The legend indicates total time (days) turtles spent in each cell. Dashed black line indicates 200 m bathymetric contour.Taken from López-Mendilaharsu et al. 2009

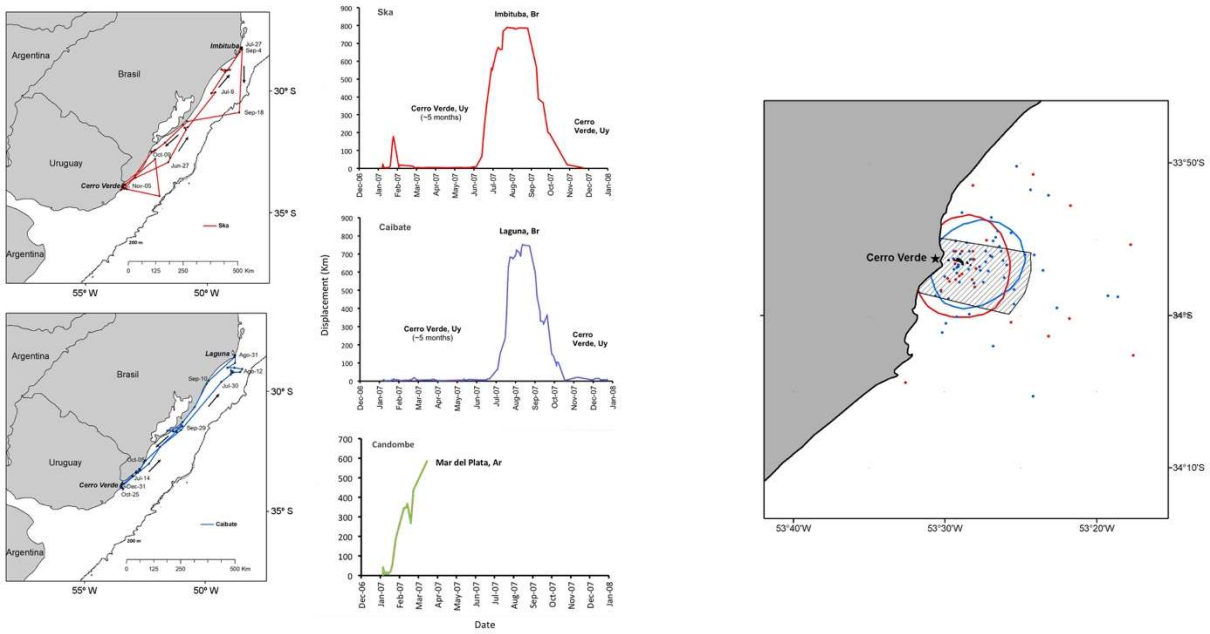

Figure 5. Displacement from released site plot of the three tracked green turtle. The left panels (A and B) show the tracks of those turtles that performed a round-trip migration between summer and winter foraging areas in Uruguay and Brazil respectively. The three right panels (C, D and E) show distance to the release point through time. Phases of migration are represented by rapid changes in displacement distance; summer and winter foraging areas are revealed by plateaus. Left panels: Right Panel: Turtle's positions and core-use areas (50% KDE contours) for the two green turtles that remained for several months at the CMPA of Cerro Verde and Coronilla islands. Taken from Vélez-Rubio et al. 2018.

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