Inter-American Convention for the Protection and Conservation of Sea Turtles

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IAC Annual Report General Instructions

Annex IV of the Convention text states that each Contracting Party shall hand in an Annual Report. To complete this Annual Report, Focal Points should consult with various stakeholders involved in sea turtle issues. If you have any questions regarding this Annual Report, please write to the PT Secretariat at secretario@iacseaturtle.org

Please note that the date to submit this Annual Report is **April 30th of 2012.**

Part I (General Information)

Please fill out the following tables. Add additional rows if necessary.

a._ Focal Point

Institution	ICMBio/CGPEQ/ MMA
Name	Ugo Eichler Vercillo
Date Annual Report submitted	30/04/2012

b._ Agency or Institution responsible for preparing this report

Name of Agency or Institution	Centro Tamar-ICMBio
Name of the person responsible for completing this report	Maria Angela Marcovaldi
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c._ Others who participated in the preparation of this report

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Part II (Policy and Management)

a._ General description of activities carried out for the protection and conservation of sea turtles

In accordance with Articles IX and XVIII of the text of the Convention, each Party shall establish monitoring programs, policies and plans for implementation at a national level for the protection and conservation of sea turtles and their habitat.

As a result, the Party shall report on the action plans, management plan or other types of instruments, describing their location, the species considered and the actions implemented by governmental, non-governmental and private institutions related to sea turtles.

In addition to the above, please fill out the following tables and explain the level of progress in the comments column.

	YES/NO/ In Progress	**Comments**
Does your country have a national plan of action in accordance with Article XVIII?	*Yes*	**Annex 1**
Does your country have policies and programs at local and regional levels in accordance with Article XVIII?	*Yes*	
Does your country have monitoring programs in accordance with Article IX?	*Yes*	

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b._ National legislation and international instruments related to sea turtles adopted in the preceding year

Describe any national regulations, international agreements and other legal instruments adopted during the preceding year (April 30, 20XX-April 30, 20XX) related to sea turtles and/or relevant activities. Provide a reference and attach the digital file for the legislation and its corresponding number. The laws adopting the international legislation should be included, when they exist.

National Legislation		
Type and name of legal instrument (No.)	Description (Range of application)	Sanctions(s) Imposed
Only one new legislation was added and the others remain as described in the 2008 report		
Instrução Normativa Conjunta – IBAMA (regulation from the Federal Environmental Agency) – n. 01, 27/05/2011	Creates time and zone closure for exploration and production of oil and gas, including the seismic surveys, drilling of oil wells, installation or release of pipelines to drain the oil, gas and water production in priority areas for sea turtle conservation along the Brazilian coast.	
PORTARIA ICMBio Nº 135, DE 23 DE DEZEMBRO DE 2010	Approves the National Action Plan for the Conservation of Sea Turtles, setting its objectives, goals, duration, scope, implementation methods, monitoring, and establishing the Strategy Group for Conservation and Management (**Annex 2**)	

International Instruments	
Treaty, Convention, Agreements, Memorandum of Understanding	Year signed and/or ratified
IAC	1996
CITES	1973
ASO	2003
FAO	1966
WIDECAST	1983
IUCN	1989
Biodiversity Convention	1992

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Note: *If this is the first time a country is submitting this information, please include all pertinent national legislation and international instruments currently in force.*

c._ Actions for compliance with national and international legislation

c.1 IAC Resolutions

Fill in the following tables for each of the IAC Resolutions listed below. In the case that a Resolution does not apply to your country, please mark the box RESOLUTION DOES NOT APPLY, and if a specific question does not apply, please mark the column DOES NOT APPLY. If you need more space to describe these actions, please attach additional pages and note the resolution and question number to which you are responding.

Resolution CIT-COP2-2004 R1: Conservation of leatherback turtles (*Dermochelys coriacea*)

ACCORDING TO RESOLUTION CIT-COP2-2004-R1, REPORT WHETHER YOUR COUNTRY:

			RESOLUTION DOES NOT APPLY	
IS COMPLYING WITH THE FOLLOWING:	**YES**	**NO**	**DESCRIBE ACTION (*)**	**DOES NOT APPLY**
1a) Have you created conservation plans and long-term programs that can reverse the critical situation of the leatherback turtle in the Eastern Pacific?				x
1b) Are you implementing these conservation plans and monitoring programs?				X
2a) Have you taken conservation measures to significantly reduce the use of leatherback turtle products and by-products?	x		The actions taken towards sea turtle conservation in Brazil continue as described in the IAC – Annual Report 2007 and in the National Action Plan for Marine Turtles, from ICMBio.	
2b) Do you evaluate these conservation measures?	x		As determined in the National Action Plan for Marine Turtles, from ICMBio.	
3a) If your country has leatherback turtle nesting beaches in the Eastern Pacific: Have you taken conservation measures to protect the nesting sites and their associated habitats?				x
3b) Do you evaluate the conservation measures taken to protect those nesting sites and their associated habitats?				x
4. Has your country adopted fishing techniques that reduce incidental capture and mortality of this species?	x		Studies and tests for evaluating the effects of circle hooks in reducing incidental captures of leatherbacks and other species of marine turtles have been carried out, as well as the use of other mitigations tools, like de-hookers and line cutters; Despite be allowed fishing with driftnet with up to 2,5 Km, since the end of 2010 this kind of fishery is not in use;	

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5a) Is your country collecting information on incidental capture of leatherbacks in the following fisheries:				
Artisanal fisheries				
i) Long-line	x			
ii) Gillnets	x			
iii) Other fishing gear (indicate which one(s))	x		Pound nets, corrals, trawl nets (bottom and midwater), drift nets	
Industrial fisheries				
i) Long-line	X			
ii) Gillnets	X			
iii) Other fishing gear (indicate which one(s))	x		trawl nets (bottom and midwater), drift nets	
5b) Have you provided the IAC with information on incidental capture of leatherbacks in the following fisheries:				
Artisanal fishing				
i) Long-line	x			
ii) Gillnets	x			
iii) Other fishing gear (indicate which one(s))	x		Pound nets, corrals, trawl nets, drift nets, set nets	
Industrial fisheries				
i) Long-line	x			
ii) Gillnets	x			
iii) Other fishing gear (indicate which one(s))	x		trawl nets, drift nets	
6. Have you established agreements and/or understandings with countries fishing within international waters to adopt fishing techniques that reduce incidental capture of leatherback turtles? List which countries:	x		A resolution (03-11) was passed in ICCAT (2003) urging the affiliated countries to report records of sea turtle by catch. Resolution 05-08 about the use of circle hooks Recomendation 10-09 about incidental sea turtles captures under ICCAT fisheries	
7. Have you encouraged other non-Party states to the IAC, carrying out activities that affect leatherback turtles, to adopt measures in favor of their conservation, by means of bilateral, multilateral or regional contacts?		X		
8. Have any cooperative agreements or alliances been established with pertinent organizations? List:	x		Brazil takes part of an international network of South-American countries (ASO – Atlântico Sul Ocidental, Western South Atlantic), also including Uruguay and Argentina, aiming to develop joined and integrated actions focused on marine turtle conservation. Brazil is also part of the SASTN (South Atlantic Sea Turtle network) a group of researches aiming to develop knowledge on leatherbacks and loggerheads.	

(*) Specify actions implemented, name of the project or relevant document, location, objective(s), institutions responsible, contact, financial or other support (optional), results (both positive and negative) and duration.

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Resolution CIT-COP3-2006 R-1: Hawksbill turtle conservation *(Eretmochelys imbricata)*

ACCORDING TO RESOLUTION CIT-COP3-2006-R1, REPORT WHETHER YOUR COUNTRY:

			RESOLUTION DOES NOT APPLY		
IS COMPLYING WITH THE FOLLOWING:		**YES**	**NO**	**DESCRIBE ACTION (*)**	**DOES NOT APPLY**
1. Has your country promoted synergies with other Conventions, treaties, international organizations, and/or regional fisheries bodies on the management and conservation of hawksbill turtles and their habitats? Indicate which one(s).		**X**		**CITES; SPAW; WHMSI; FAO; WIDECAST; BIODIVERSITY CONVENTION**	
2 a) Are you strengthening monitoring of the illegal use and trade of hawksbill turtles and their products?					**X**
2 b) Are you enforcing pertinent hawksbill legislation?		**X**			
2 c) Are activities being carried out in order to stop illegal trade of hawksbill products?					**X**
3. Does your country support and strengthen the research and monitoring activities required to improve the scientific basis of conservation measures for the hawksbill turtle? Especially in:	Genetics	**X**		Population structure and hybridization in hawksbill (*Eretmochelys imbricata*) feeding and nesting aggregates from Brazil	
	Migratory behavior	**X**			
	Location and conservation status of foraging habitats.	**X**		Diet Analysis (stomach contents and isotopes) of stranded or incidentally captured hawksbills along the Brazilian coast; Identification of new foraging habitats in Brazilian coast	
	Location and conservation status of prey species.	**X**		Diet Analysis (stomach contents and isotopes) of stranded or incidentally captured hawksbills along the Brazilian coast;	
	Population dynamics at foraging sites	**X**		Capture mark recapture program on juvenile hawksbills in feeding grounds of Fernando de Noronha and Atol das Rocas	
	Integrity of nesting habitats	**X**		Creation of protected areas and conservation actions under the National Action Plan for Marine Turtles, from ICMBio.	
	Others (specify)				
4. As indicated in the recommendations from FAO's Technical Meeting on the conservation of marine turtles and fisheries that was held in Bangkok in 2004 and adopted by the 26th Session of FAO's Fisheries Committee (COFI), does your country carry out any activities mentioned in a) and/or b)?	a) Evaluate incidental capture of hawksbill turtles in jurisdictional waters.	**X**		The Brazilian National Action Plan to Reduce Incidental Capture of Sea Turtles in Fisheries – Projeto TAMAR-ICMBio	
	b) Actions to mitigate incidental capture of hawksbill turtles in their jurisdictional waters.	**X**		The Brazilian National Action Plan to Reduce Incidental Capture of Sea Turtles in Fisheries – Projeto TAMAR-ICMBio	

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5. Does your country apply the precautionary approach when considering proposals for seismic exploration on priority marine habitats of the hawksbill turtle?		**X**		Instrução Normativa Conjunta – IBAMA (regulation from the Federal Environmental Agency) – n. 01, 27/05/2011	
6. Indicate if your country is strengthening the protection of important nesting and foraging habitats by declaring protected areas and regulating anthropogenic activities that adversely impact these habitats.	a) Protection of nesting habitats	**X**		Creation of protected areas and conservation actions under the the National Action Plan for Marine Turtles, from ICMBio.	
	b) Protection of feeding habitats	**X**		creation of protected areas and conservation actions under the the National Action Plan for Marine Turtles, from ICMBio.	
7. Does your country promote exchange of technical capacity and collaborative research on hawksbill habitats among Parties as well as non Parties and other involved organizations in the Area of the Convention?		**X**		Annual Symposium on Sea Turtle Biology and Conservation, WIDECAST meetings, South Atlantic Sea Turtle Working Group (SASTN) meeting, Rede de Pesquisa e Conservação de Tartarugas Marinhas no Atlântico Sul Ocidental (ASO) meeting	

(*) Specify actions implemented, name of the project or relevant document, location, objective(s), institutions responsible, contact, financial or other support (optional), results (both positive and negative) and duration.

Resolution CIT-COP3-2006-R2: Reduction of the adverse impacts of fisheries on sea turtles

ACCORDING TO RESOLUTION CIT-COP3-2006-R2, REPORT WHETHER YOUR COUNTRY:

IS COMPLYING WITH THE FOLLOWING:	YES	NO	DESCRIBE ACTION (*)	DOES NOT APPLY
1.Adopted the "Guidelines to Reduce Sea Turtle Mortality induced by fisheries operations", of the United Nations Food and Agriculture Organization (FAO), including:	X			
A. Research and monitoring of adverse impact of fisheries on sea turtles				
• Collect information by fishery	X		Qualitative data (turtle species (including biological data), fishery type, beyond, spatial and temporal data) and quantitative data about sea turtle interaction with monitored fisheries. The main fisheries monitored are: longline, bottom trawls, some kinds of gillnets, corrals and pound nets	
• Observer programs	X		In all joint venture fleet, independent of fishery type (IN conjunta nº 1 de 29/09/2006 e Decreto 4.810 de 19/08/2003) and in some vessels of the national fleet, through government enforcement and specific NGOs projects.	
• Research on sea turtle/fishery interactions	X		The Brazilian National Action Plan to Reduce Incidental Capture of Sea Turtles in Fisheries – Projeto TAMAR-ICMBio;	

			- Monitoring the interaction between turtles and fisheries in the Rio Grande do Sul (Monitoring of sea turtles and fisheries at Rio Grande do Sul) Nucleo de Educação e Monitoramento Ambiental -NEMA - (NGO). - Projeto Tartarugas (Sea Turtle Project) – Instituto de Pesquisas Cananéia – IPEC (NGO). - Projeto BIOPESCA – Monitoring sea turtle bycatch on the fishing fleets in the counties of Itanhaém, Mongaguá, Praia Grande, Santos e Guarujá, Estado de São Paulo, Brazil. - Fundação Centro Brasileiro de Proteção das Tartarugas Marinhas Pró-TAMAR-BA - Instituto Brasileiro do Meio Ambiente e dos Recursos Naturais Renováveis / Centro de Pesquisa e Gestão de Recursos Pesqueiros do Litoral Nordeste - IBAMA/CEPENE-PE - Universidade Federal do Paraná - UFPR/Centro de Estudos do Mar - Instituto Brasileiro do Meio Ambiente e dos Recursos Naturais Renováveis - IBAMA DF - Universidade Federal de Minas Gerais UFMG - Ministério da Pesca e Aquicultura DF - Instituto Brasileiro do Meio Ambiente e dos Recursos Naturais Renováveis. Centro de Pesquisa e Gestão de Recursos Pesqueiros do Litoral Sudeste e Sul IBAMA/ CEPSUL-SC - Instituto do Meio Ambiente - INEMA-BA - Fundação Oswaldo Cruz- FIOCRUZ – RJ - Universidade de Vila Velha - UVV-ES - Associação Guajiru: Ciência - Educação - Meio Ambiente /PB - Universidade Federal do Espírito Santo – UFES - Núcleo de Educação e Monitoramento Ambiental - NEMA-RS - Instituto Brasileiro do Meio Ambiente e dos Recursos Naturais Renováveis - Núcleo de Educação Ambiental - IBAMA NEA- DF - IPeC - Instituto de Pesquisas Cananéia – SP - Universidade Federal de Sergipe - UFS - Dept. Engenharia de Pesca - Universidade Federal de Sergipe –	

			UFS - Coordenação Geral de Controle da Pesca - CGCOP/SEMOC/MPA – DF - Associação de Pesquisa e Preservação de Ecossistemas Aquáticos - AQUASIS-CE - Universidade Federal do Pará - UFPA - Universidade Federal do Rio Grande - FURG-RS - Instituto Brasileiro do Meio Ambiente e dos Recursos Naturais Renováveis Centro de Pesquisa e Gestão de Recursos Pesqueiros do Litoral Norte - CEPNOR/IBAMA – PA - College of Staten Island City University of New York-EUA - Universidade do Estado do Rio de Janeiro – UERJ - Universidade Federal de Santa Catarina - UFSC - Universidade Federal do Paraná UFPR/Centro de Estudos do Mar - Universidade Federal Rural de Pernambuco - UFRPE - Universidade do Estado do Rio de Janeiro – UERJ - Laboratório de Mamíferos Aquáticos e Bioindicadores - MAQUA-UERJ – RJ - Universidade Federal do Rio Grande - FURG-RS - Fundação Mamíferos Aquáticos-SE - Universidade da Flórida – EUA - Instituto Brasileiro do Meio Ambiente e dos Recursos Naturais Renováveis - Centro de Pesquisa e Gestão de Recursos Pesqueiros do Litoral Sudeste e Sul /IBAMA/CEPSUL-SC - Instituto Aquamazon – PA - Universidade Pio X - Dept. de Medicina Veterinária – SE - Western Pacific Regional Fishery Management Council - Australia Conselho Regional de Gestão da Pesca do Pacífico Ocidental - Diretoria de Unidades de Conservação de Proteção Integral DIREP/ICMBio – DF - Pontífica Universidade Católica PUC/RS - Ministério da Pesca e Aquicultura MPA – DF - Projeto Albatroz – SP - Instituto de Pesca – SP - National Oceanic and Atmospheric Administration NOAA - EUA	

• Information on non-Party vessels		x		
• Cooperation with non-Party states to obtain information		x		
B. Mitigation measures for the following fisheries:				
i) Long-line	X		Circle hook 18/0, 10° off set, line cutter, de hooker, post capture handling. (although none of these are mandatory, we have been working hard for their constant use). Some fishermen are as volunteer exchanging the hooks in their fleets.	
ii) Gillnets	X		Tests with coastal gillnets aiming to evaluate the turtles and fishes catch period (day or night). Tests with illuminate gillnets with fishing lights (LED) are also been performed (supported by NOOA – USA)	
iii) Trawling (e.g., 1. TEDs: specify legally approved TEDs, their dimensions, material, and target species for that fishery, 2. time-area closures: specify geographical area, time of closure and target species for that fishery, 3. tow times and/or 4. other measures)		X		
iv) Other fishing gear (indicate which one(s))	X		Pound nets, corrals.	
C. Training, education and dissemination				
• Training, education and dissemination activities	X		Training of onboard observers about sea turtles data, target species and other catches; Training of ship masters and fishermen about use of mitigation measures and post capture handling; Use of the vídeo "a pescaria de espinhel de superfície e as tartarugas marinhas II" (the longline fishery and sea turtles - by Projeto Tamar), on board of longline vessels; Educational campaign along the main feeding and nesting areas " Nem tudo que cai na rede é peixe".	
D. Harmonization of policies and legislation				
• Modifications to instruments	X		INSTRUÇÃO NORMATIVA Nº 14, DE 14 DE OUTUBRO DE 2004 In Sergipe State, most important olive ridley (*Lepidochelys olivacea*) nesting area, is being discussed the feasibility to extend the shrimp fishery timing closed are to coincide with the entire olive ridley nesting season	
E. Capacity building				
• Creation of a national sea turtle committee/network	X		The Brazilian National Action Plan to Reduce Incidental Capture of Sea Turtles in Fisheries – Projeto TAMAR-ICMBio is responsible for all sea turtle related issues in the country;	

			Participation on the Scientific Subcommittee of the Permanent Advisory Committee for management of Tunas – CPG Atuns e Afins (Instrução Normativa SEAP n° 4, de 25/05/2004); Participation on committee of onboard observer program (Normative Instruction nº 1 - 29/09/2006)	
F. Financing				
• Financial support obtained to implement guidelines in this resolution	X		- Governmental funds from MMA - Ministry of Environment (ICMBio), MPA - Ministry of Fisheries and Aquaculture; - NGO funds from Fundação Pro-Tamar; - NOOA/USA	
G. Socio-economic considerations				
• Support socio-economic activities that help mitigate adverse impacts of fisheries on sea turtles	X		Since its creation (30 years ago) Tamar has worked involving the local community in conservation and protection of the sea turtles. Different ecologically sound alternatives of income and direct job opportunities have been developed by TAMAR, such as : i) recycled paper manufacture (São Paulo state), ii) two clothes factory (Espírito Santo and Sergipe states), iii) seamstress group (São Paulo, Sergipe and Ceará states), iv) child day care center (Bahia state), v) handcraft group (Rio Grande do Sul, São Paulo, Rio de Janeiro, Espírito Santo, Bahia, Sergipe states) **Annex 3 -** Projeto Tamar-Ibama: Twenty-fi ve Years Protecting Brazilian Sea Turtles Through a Community-Based Conservation Programme, from Marcovaldi et al (2005)	
H. Other aspects				
• Environmental impact studies for mariculture projects		X		
2. Sent information and documents on sea turtles created by your country to the Secretariat of the Convention? List documents.	X		**Annex 4** - Standardization of CPUE of loggerhead sea turtle (*Caretta caretta*) caught by pelagic longliners in the Southwestern Atlantic Ocean, from Pons et al (2010); **Annex 5** - Driftnet fishery threats sea turtles in the Atlantic Ocean, from Fiedler et al (2012)	
3. Initiated activities that assist the Convention Secretariat in contacting non Party States through established mechanisms, especially in the area of the Convention, so that they may		X	A verbal note was sent from the Chancery to the embassies of Guyana and Suriname in Brasilia inviting their adhesion to the Convention.	

provide, in a cooperative spirit, the Secretariat with available data on incidental sea turtle catches in their fisheries?				
4. Supports the Convention Secretariat, through established mechanisms, to commence discussions with regional fishery management organizations in order to develop Memorandum of Understandings.		X		

(*) Specify actions implemented, name of the project or relevant document, location, objective(s), institutions responsible, contact, financial or other support (optional), results (both positive and negative) and duration.

Resolution CIT-COP4-2009-R5: Adaptation of sea turtle habitats to climate change
ACCORDING TO RESOLUTION CIT-COP4-2009-R5, REPORT WHETHER YOUR COUNTRY:

IS COMPLYING WITH THE FOLLOWING:	YES	NO	DESCRIBE ACTION (*)	DOES NOT APPLY
1 a) Have marine and coastal habitats on which sea turtles depend been included in national plans and programs for adaptation to climate change? Specify habitats and plans		X		
1 b) Are these plans for adaptation to climate change being implemented?		X		
2 a) Are corrective measures and measures on adaptation to climate change included within management plans and/or protection and conservation programs for sea turtles and their habitats?		X		
2 b) Are you evaluating the corrective measures and measures on adaptation to climate change included within management plans and/or protection and conservation programs for sea turtles and their habitats?		X		
3. Have you identified any organizations or pertinent expert groups as possible partners to work on the topic of adaptation by sea turtles to climate change? Please list.		X		
4. Have you carried out research and monitoring to improve knowledge of the effects on, and vulnerability of sea turtles and their habitats, to climate change?	X		Long term regular monitoring and evaluation in the main nesting areas of the 5 species of sea turtles, including data collection of incubation parameters	
5. Has your country hosted capacity building workshops for monitoring techniques and/or adaptation to climate change?		X		
6. Has your country implemented mitigation measures for non-climatic threats as a way to improve the resilience of populations to the impacts of climate change? Specify which ones.	X		Long term protection on the main nesting area of the CC, LO, CM, DC and EI showing increasing population trend for CC, LO, CM and DC populations and stable for CM	

(*) Specify actions implemented, name of the project or relevant document, location, objective(s), institutions responsible, contact, financial or other support (optional), results (both positive and negative) and duration.

c.2 National and International Mandates

List actions that are being carried out to comply with national and international mandates (Ex: inspections, confiscations, sanctions, etc.)

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d._ Application[submission] of exceptions established in the Convention

Describe in detail the exceptions allowed in accordance with article IV, item 3(a,b,d) and Annex IV of the text of the Convention, in accordance to the procedure established by the COP (Doc. CIT-COP5-2011-R2). Attach management program.

Part III (Research information)

a._ Threats

Describe threats ***(Coastal development, incidental capture, direct use, contamination and pathogens, and climate change)*** *by species, with information on the area and activities taken to control them in the following table.* Lo = *Lepidochelys olivacea*; Lk = *Lepidochelys kempii*; Dc = *Dermochelys coriacea*; Ei = *Eretmochelys imbricata*; Cc = *Caretta caretta*; Cm = *Chelonia mydas*.

Species	Threat(s)	Actions
Lo	**Coastal Development; incidental capture; climate change;**	**National Action Plan for Se turtles**
Lk	**Does Not Apply**	**Does Not Apply**
Dc	**Coastal development; incidental capture; climate change;**	**National Action Plan for Sea turtles**
Ei	**Coastal Development; incidental capture; climate change;**	**National Action Plan for Sea turtles**
Cm	**incidental capture; climate change; contamination and pathogens**	**National Action Plan for Sea turtles**
Cc	**Coastal Development; incidental capture; climate change;**	**National Action Plan for Sea turtles**

b._ Research

Describe scientific research that is being carried out in the country relating to sea turtle population assessments including tagging, migration, and genetic studies, as well as those relating to conservation issues including habitat monitoring, fisheries interactions, disease, etc. Provide a list of references for the information used in this report and note how to obtain them when needed.

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Region	Title of Research Study	Institution
Alagoas	Protarta – Contributions to sea turtle conservation on the coast of Maceió, Alagoas	Biota Institute of Conservation
	Protarta – Contributions to sea turtle conservation on the coast of Maceió, Alagoas	Biota Institute of Conservation
Bahia	Population structure, feeding activities, and influence of structural components of the habitat on the abundance of *Chelonia mydas* along the northern shore of Bahia	Federal University of Bahia
	Accidental capture and ethno-knowledge of sea turtles (*Testudines Cheloniidae*) in Ilhéus, Bahia	State University of Santa Cruz
	Population structure, feeding activities, and influences of food resources and shelter on frequency of habitat use by *Chelonia mydas* along the Northern Coast of Bahia.	Federal University of Bahia
Ceará	TRADITIONAL COMMUNITIES AND NATURAL RESOURCES: a case study in Icapuí, Ceará	Federal University of Paraíba
Espirito Santo	Incubation temperature of *Chelonia mydas* on Ilha da Trindade, Espírito Santo	Espírito Santo Educational Society – Vila Velha University – UVV
	Genetic studies of the conservation of sea turtle species in Brazil	Federal University of Minas Gerais
Maranhão	Ecology and Conservation of Fresh Water and Sea Turtles in Maranhão State	Federal University of Maranhão
National	Age and Growth of the Green Turtle (Chelonia mydas) along the Brazilian coast	Federal University of Espírito Santo
	Brazilian Sea Turtle Protection, Management, and Research Program: - Conservation, Management, and Research of sea turtles in priority spawning areas; - Conservation, Management, and Research of sea turtles in feeding, migration, and rest areas; - Environmental education and public awareness-raising	TAMAR/ICMBio Center, in cooperation with the Pro-Tamar Foundation
	Evaluation of the function and presence of flow cytometry leukocytes and the influence of polychlorinated biphenyls in the development of fibropapillomas in *Chelonia mydas* (Linnaeus, 1758)(Testudines, Cheloniidae)	Luiz Queiroz School of Advanced Agricultural Studies
	Analyses of pollution biomarkers on the *Chelonia mydas* green turtle in three feeding areas: Vitória, Ubatuba, and Florianópolis	Federal University of Paraná
	Geographic variation in diet and the presence of waste in green turtles, *Chelonia mydas*, along coastal areas and on ocean islands of Brazil	Federal University of Espírito Santo
	Genetic characterization of the hawksbill turtle (*Eretmochelys imbricata*) and green turtle (*Chelonia mydas*) in four feeding areas along the Brazilian coast	Federal University of Rio Grande
	Characterization of the herpes virus in fibropapilloma of sea turtles by PCR	Federal University of Rio Grande do Sul
National (SP, ES, SE)	Presence of environmental contaminants in the tissue of green turtles (*Chelonia mydas*) originating on the Brazilian coast	University of São Paulo
Pará	Conservation of sea turtles along the Paraná State coast	Federal University of Pará

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Paraíba	Project Urban Turtles	Guajiru Association: Science-Education-Environment
	Spawning behavior of the *Eretmochelys imbricata* sea turtle (Linnaeus, 1766) on urban beaches	Federal University of Paraíba
Paraná	Analyses of pollution biomarkers in the Chelonia mydas green turtle in three feeding areas: Vitória, Ubatuba, and Florianópolis	Federal University of Paraná
	Monitoring and Conservation of sea turtles in the Coastal and Estuary Zone of Paraná State	Federal University of Paraná
Pernambuco	Association between epibionts and sea turtle shells on the southern coast of Pernambuco, with an emphasis on free-living meiofauna and nematofauna	Federal University of Pernambuco
	Molecular markers to identify Brazilian wildlife species: tools for mitigating predatory hunting in Brazil	Federal University of Pernambuco
	Monitoring and Protection of Sea Turtle Spawning on the beaches of Ipojuca, Pernambuco	Ecoassociates
Piauí	Delta Turtles	Federal University of Piauí – UFPI State University of Piauí – UESPI Piauí Society for Higher Learning – SESPI / Pi School Barra Grande Association of Visitor Guides - NAT
Rio de Janeiro	Genetic characterization of the green turtle (Chelonia mydas) in feeding areas in the Arraial do Cabo region, Rio de Janeiro, Brazil.	University of São Paulo
	Characterization of the display of cleaning requests of the *Chelonia mydas* species on the beaches of Araçatiba, Ilha Grande, Angra dos Reis, and João Fernandes, Búzios, Rio de Janeiro, Brazil	State University of Rio de Janeiro
	Distribution of endangered species along the rocky shores of Rio de Janeiro State	Santa Úrsula University Association
Rio Grande do Norte	Leptin, Ghrelin, and Biochemistry of Fasting of the *Eretmochelys imbricata* Turtle	State University of Rio de Janeiro
	Diversity, areas of occurrence, and conservation of aquatic mammals and marine chelonians in Rio Grande do Norte (REMANE)	Federal University of Grande do Norte
Rio Grande do Sul	Marine and coastal tetrapods of the northern and central coast of Rio Grande do Sul: rehabilitation, conservation, and research	Federal University of Rio Grande
Santa Catarina	Evaluation of the population dynamics of green turtles (*Chelonia mydas*) in the Baleia Franca Environmental Preservation Area – SC	Federal University of Rio Grande
	Oxidative stress evaluation in green turtles (Chelonia mydas) with differing degrees of manmade waste ingestion	Federal University of Santa Catarina
	Photo identification, capture and recapture of sea turtles (*Chelonia mydas* and *Eretmochelys imbricata*) during the 2011/2012 summer season in the Arvoredo Marine Biology Reserve (Santa Catarina, Brazil)	COMAR – Brazilian Institute of Marine Conservation

São Paulo	Project Turtles: aspects of the natural history of sea turtles, with a view to conservation of the species in the Iguape/Paranaguá estuary-lagoon complex	Institute of Permacultures and Ecovillages of the Cerrado – IPEC
	Effects of environmental changes on artisanal fishing and incidental capture of sea turtles in a coastal community of São Paulo State	State University of Campinas
	Evaluation of the cellular function of flow cytometry leukocytes and the influence of chemical pollutants in the development of fibropapilloma of *Chelonia mydas* (Linnaeus, 1758) (Testudines, Cheloniidae)	Luiz Queiroz School of Advanced Agricultural Studies
	Monitoring of the accidental capture of marine cetaceans and chelonians during artisanal fishing in São Paulo State (SP), with an emphasis on porpoises (*Pontoporia blainvillei*).	Biopesca Project
	Evaluation of immune response in green turtles (*Chelonia mydas*)	Paulista University – UNIP
	Monitoring of accidental capture of marine cetaceans and chelonians during artisanal fishing in São Paulo State (SP)	Biopesca Project
	Diversity and Evolution of Amphibious Reptiles in São Paulo State	Butantan Institute

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c._ Other activities

Include information on: environmental education activities, programs to establish and manage protected areas, and cooperative activities with other Party countries.

Environmental Education Activities

Social involvement and community outreach

1. 1. Job Opportunities = 1,800 people
   - ✓ *T-shirt Factory*
   - ✓ *Craft Groups*
   - ✓ *Fishermen ("tartarugueiros")*
2. Environmental education and awareness - 1,200.000 people/year
   - ✓ *Miniguides ("Tamarzinhos")*
   - ✓ *Sea Choral (Coral do Mar)*
   - ✓ *Public environmental campaigns*
   - ✓ *School environmental campaigns*
   - ✓ *Visitors Centers*

Cultural Valuation

- ✓ *Community Festivals and Local Traditions*
- ✓ *Musical concerts with the TAMAR band*

3. Capacity Building = 1,100 people/year

- ✓ *Digital Inclusion*
- ✓ *Training and Internship*
- ✓ *Local Agents Program*
- ✓ *PaperRecycling Workshops*

Part IV: Annexes

Table 1: Species Present

Place an X in the box when the species listed is present in the oceanographic basins of your country as established in Article III of the text of the Convention. Lo = Lepidochelys olivacea; Lk = Lepidochelys kempii; Dc = Dermochelys coriacea; Ei = Eretmochelys imbricata; Cm = Chelonia mydas; Cc = Caretta caretta.

Species	Pacific Ocean	Atlantic Ocean	Caribbean Sea
Lo		X	
Lk		-	
Dc		X	
Ei		X	
Cm		X	
Cc		X	

Please see the XLS file attached

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Table 2: Important nesting sites for sea turtle conservation

a. *This table is intended to report information on the priority nesting beaches (for example, sites with greater abundance, endemism, genetic importance, others) for each species. For beaches that have multiple species nesting, enter that beach under the list for the primary nesting species. When entering information on nesting beaches, information is to be entered for each species independently. Indicate the names of nesting sites and the nesting season months for each site.*
b. *Geographic location: Specify latitude and longitude in degrees, minutes and seconds - provide one or two points of reference for nesting sites (if available).*
c. *Extension: Provide the total length (in Kilometers) of the nesting beach.*
d. *Declared protection area: Indicate if the area is declared as some type of protected area.*
e. *Protection measures: Indicate if any type of protection measures are in place at the nesting site (For example, turtle safe lights).*
f. *Annual nesting abundance: Where possible, provide information on the total number of females and/or nests deposited at the nesting beach. If a specific value is not available, please provide a range for annual number of nesting females or nests deposited. If data are unavailable, enter 'unknown' or 'unavailable'. The ranges for annual number of females are: 0-10, 11-100, 101-500, 501-1000, 1001-5000, 5001-10000, 10001-50000, 50001-100000, >100000. The ranges for annual number of nests are: 0-10, 11-100, 101-500, 501-1000, 1001-5000, 5001-10000, 10001-100000, 100001-500000, >500000. On a separate sheet, provide a brief description/justification on why each site that was mentioned is considered important (sites with greater abundance, endemism, genetic, others). Include historical information (graphic and/or tables) showing the population status of each species present at the site.*
g. *Information from tagging program: Indicate if there have been any tagging activities at the nesting beach. This includes flipper tagging, passive integrated transponder (PIT) tagging, and satellite telemetry programs. If possible, on a separate sheet or as attached reference provide greater detail about the type of tagging efforts conducted. Also provide satellite telemetry maps or flipper tag recovery information if available.*
h. *Tissue sampling: Indicate if there has been tissue sampling conducted at this site. This includes skin, blood, and other body tissues. On a separate sheet, or as attached references, describe these tissue sampling programs in greater detail. For example, were samples collected for genetic, contaminant, and/or stable isotope studies?*

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Spp	Name of Priority Nesting Site (Regular nesting)	Season	Geographic Location (Lat/Long) in Degrees, Minutes, and Seconds																												Extension (km)	Declared Protection Area	Protection Measures	Annual Nesting Abundance		Tagging Program	Tissue Sampling
			Beginning														Ending																	Females	Clutches		
			°	'	"	N	°	'	"	W	to	°	'	"	N	°	'	"	W																		
			°	'	"	N	°	'	"	W	to	°	'	"	N	°	'	"	W																		
Lo			°	'	"	N	°	'	"	W	to	°	'	"	N	°	'	"	W																		
			°	'	"	N	°	'	"	W	to	°	'	"	N	°	'	"	W																		
Lk			°	'	"	N	°	'	"	W	to	°	'	"	N	°	'	"	W																		
			°	'	"	N	°	'	"	W	to	°	'	"	N	°	'	"	W																		
			°	'	"	N	°	'	"	W	to	°	'	"	N	°	'	"	W																		
Dc			°	'	"	N	°	'	"	W	to	°	'	"	N	°	'	"	W																		
			°	'	"	N	°	'	"	W	to	°	'	"	N	°	'	"	W																		
Ei			°	'	"	N	°	'	"	W	to	°	'	"	N	°	'	"	W																		
			°	'	"	N	°	'	"	W	to	°	'	"	N	°	'	"	W																		
			°	'	"	N	°	'	"	W	to	°	'	"	N	°	'	"	W																		
Cm			°	'	"	N	°	'	"	W	to	°	'	"	N	°	'	"	W																		
			°	'	"	N	°	'	"	W	to	°	'	"	N	°	'	"	W																		
Cc			°	'	"	N	°	'	"	W	to	°	'	"	N	°	'	"	W																		

Please see the XLS file attached and the observation bellow

We have just 3 areas that are completely declared protection area (for CM). For other species, there are parts that are declared protected areas, but do not have the "partial"option;but all areas have all nests and females protected

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Table 3: Important in-water sites for sea turtle conservation

a. *This table is intended to contain information for the priority in-water sites for each species. For marine habitats that have multiple species present, enter the specific site under the heading for the priority species at that site. Indicate whether or not there is in water occurrence and/or foraging sites for that species.*
b. *Geographic location: Describe the in-water site in general, providing the name of the site and points of reference at sea, when available. If possible add the geographic location in Lat/Long coordinates.*
c. *Declared protection area: Indicate if the area is declared as some type of protected area.*
d. *Information from tagging program: Indicate if there have been any tagging activities at the in-water site. This includes flipper tagging, passive integrated transponder (PIT) tagging, and satellite telemetry programs. If possible, on a separate sheet, or as attached reference provide greater detail about the type of tagging efforts conducted. Also provide satellite telemetry maps or flipper tag recovery information if available.*
e. *Tissue sampling: Indicate if there has been tissue sampling conducted at this site. This includes skin, blood, and other body tissues. On a separate sheet, or as attached references describe these tissue sampling programs in greater detail. For example, were samples collected for genetic, contaminant, and/or stable isotope studies?*

Species		Description of geographic location	Declared Protection Area	Tagging Program	Tissue Sampling
Lo	In water Occurrence				
	Foraging Sites				
Lk	In water Occurrence				
	Foraging Sites				
Dc	In water Occurrence				
	Foraging Sites				
Ei	In water Occurrence				
	Foraging Sites				
Cm	In water Occurrence				
	Foraging Sites				
Cc	In water Occurrence				
	Foraging Sites				

Please see the XLS file attached