THE *AD HOC* DATA REPORT EL REPORTE DE DATOS *AD HOC*

FOR THE COUNTRY OF POR EL PAIS DE

BRAZIL BRASIL

PREPARED BY / PREPARADO POR

HENRI REICHART



Western Atlantic Turtle Symposium Simposio de Tortugas del Atlantico Occidental

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WESTERN ATLANTIC TURTLE SYMPOSIUM San José, Costa Rica, July 1983

AD HOC DATA REPORT

FOR THE COUNTRY OF BRASIL

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DATE SUBMITTED: 11 April 1983





With a grant from the U.S. National Marine Fisheries Service, WIDECAST has digitized the databases and proceedings of the **Western Atlantic Turtle Symposium (WATS)** with the hope that the revitalized documents might provide a useful historical context for contemporary sea turtle management and conservation efforts in the Western Atlantic Region.

With the stated objective of serving "as a starting point for the identification of critical areas where it will be necessary to concentrate all efforts in the future", the first Western Atlantic Turtle Symposium convened in Costa Rica (17-22 July 1983), and the second in Puerto Rico four years later (12-16 October 1987). WATS I featured National Reports from 43 political jurisdictions; 37 presented at WATS II.

WATS I opened with these words: "The talks which we started today have the multiple purpose of bringing our knowledge up to date about the biological peculiarities of the marine turtle populations of the western Atlantic; to know and analyse the scope of the National Reports prepared by the scientific and technical personnel of more than thirty nations of the region; to consider options for the orderly management of marine turtle populations; and in general to provide an adequate forum for the exchange of experiences among scientists, administrators, and individuals interested in making contributions for the preservation of this important natural resource."

A quarter-century has passed, and the results of these historic meetings have been lost to science and to a new generation of managers and conservationists. Their unique importance in providing baseline data remains unrecognized, and their potential as a "starting point" is neither known nor appreciated.

The proceedings document what was known at the time concerning the status and distribution of nesting and foraging habitat, population size and trend, mortality factors, official statistics on exploitation and trade, estimated incidental catch, employment dependent on turtles, mariculture operations, public and private institutions concerned with conservation and use, legal aspects (e.g. regulations, enforcement, protected areas), and active research projects. In most cases it was the first time a national sea turtle assessment had been conducted.

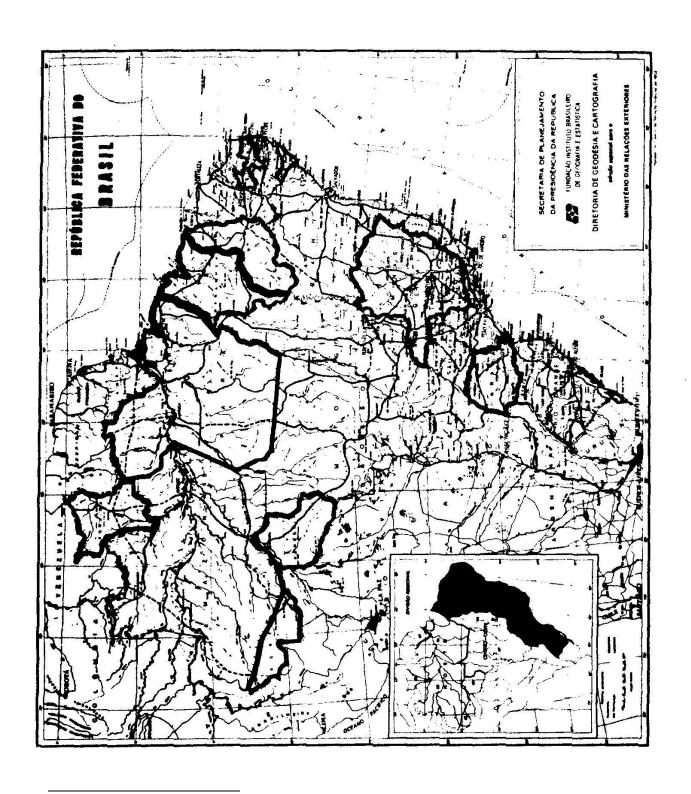
Despite the potential value of this information to agencies responsible for conducting stock assessments, monitoring recovery trends, and safeguarding critical habitat in the 21st century, the hand-written National Reports, largely illegible in the published proceedings, have slipped into obscurity. To help ensure the legacy of these symposia, we have digitized the entire proceedings, including the National Reports, plenary presentations and panels, and annotated bibliographies of both meetings, and posted them online at http://www.widecast.org/What/RegionalPrograms.html.

Each article has been scanned from the original document. Errors in the scan have been corrected; however, to be true to the original content (as closely as we can discern it), potential errors of content have not been corrected. This article should be cited:

Reichart, H.A.. 1984. Ad Hoc Data Report for the Country of Brasil, pp.55-69. *In*: Bacon, P., F. Berry, K. Bjorndal, H. Hirth, L. Ogren and M. Weber (Editors), Proceedings of the First Western Atlantic Turtle Symposium, 17-22 July 1983, San José, Costa Rica. Volume III: The National Reports. RSMAS Printing, Miami.

Karen L. Eckert WIDECAST Executive Director June 2009

Figure 1. Brazil – W.A.T.S. National Report Study Area.¹



¹ Editor's note (2009): Maps and figures are reprinted exactly as they appear in the original WATS I Proceedings (Bacon et al. 1984); we regret the poor quality exhibited in some cases.

COUNTRY: BRAZIL

Most of the information for this *Ad Hoc* Data Report on Brazil has been obtained during field trips to the coastal northeast region of the country in 1979 and 1980 as part of the WWF/IUCN Project # 1803 "Operation Headstart", green sea turtle population Suriname-Brazil. The purpose of that project was to monitor tag returns from captive-reared green sea turtles released to the sea from Surinam nesting beaches. During these field trips to Brazilian coastal areas it became evident that Brazil had many more sea turtles than people were aware of, and that there exists considerable paucity of available information on the subject. Therefore the goals of Project 1803 were redefined to include the gathering of all sea turtle information that could be obtained during the course of the Project's field trips and to make this available to the Brazilian authorities; this has been accomplished. There is still however a wealth of data to be gathered, out there on the beaches and in the Natural Resources Department offices, but it will require the efforts of dedicated fieldworkers to extract it and put it to use.

Starting in the north, at the border with French Guiana, they are the territory of Amapá, and the States of Pará, Maranhão, Ceará, Rio Grande do Norte, Pernambuco, Alagoas, Bahia. No states south of Bahia were visited, which means that only about half of Brazil's coastline has been sampled. There are reports of turtles nesting in Espírito Santo and large nesting populations of *Caretta caretta* on the beaches of Rio Grande do Sul, the southernmost state of Brazil.

Where possible a standard WATS table was used to describe a particular condition for Brazil as a whole- for instance Table 5, Beach Survey Summary, could be filled out for all of Brazil, because there is no knowledge of any aerial sea turtle surveys ever having been performed in Brazil; or Table 19, where all the currently known sea turtle sanctuaries or refuges in Brazil could be placed on this one page. On the other hand, some tables had to be filled out on a state-by-state basis, especially tables 2, 2A, and 3. For clarification all tables used are headed by either the word "Brazil' or the name of the pertinent state in order to indicate whether this tables applies nationwide or statewide.

Personal observations received priority in entering data into the tables, but most information was obtained SUDERE, SUDEPE and the various academic institutions visited. Additional data came from interviews with federal, state and local officials. Information from fishermen and other apparently knowledgeable persons on or near the beaches was double checked and, when thought to be reliable, was accepted. Unreliable data were recorded in the field notes, but were either not used in the WATS report or marked as being unreliable.

Very little quantitative information could be given, and in the tables a ✓ mark was used to indicate that the requested item is present, but that it could not be enumerated. When the item is not present a horizontal stripe — was used. When the item's status was unknown the space was left blank. As a supplemental reference a copy of the current status report for WWF/ IUCN Project # 1803 has been enclosed. From it, perhaps, additional information may be gleaned for the Symposium records.

CONCLUSION

When reviewing this *Ad Hoc* report for Brazil it is clear that many gaps exist in the requested information and that practically no numerical data have been supplied. What this *Ad Hoc* report does provide is a rather general overview of the situation in the northeast region of Brazil. In this the report could serve as a starting point on which to establish priorities for future Brazilian action plans regarding their sea turtle resources. It should be recommended that any such plans be developed and enacted on sub-regional preferably state-by-state, bases, naturally with close cooperation between the states.

As stated in the introduction, a good amount of valuable data on sea turtles in Brazil is buried in filing cabinets of the various natural resources offices and academic institutions of the coastal

states. There are also a number of field fisheries officers with practical sea turtle know-how. Any organized sea turtle conservation or research program should start by first assimilating this information to provide additional base data.

ACKNOWLEDGEMENTS

It would have been impossible to obtain the information provided here were it not for the excellent cooperation given during the fieldwork by the offices and personnel of SUDERE and SUDEPE in Pará, Ceará, Rio Grande do Norte, Pernambuco and Bahia. The marine laboratories of the Universities of Ceará, Rio Grande do Norte and Bahia were also of immense help.

TABLE 1. GEOGRAPHIC INVENTORY		
Length of Coastline*	7,408 Km	
Km ² of Continental Shelf Area		
Seaward Extent of Jurisdictions		
Territorial Sea**	370.4 Km	
Extended Economic Zone***	22.2 Km	
Fisheries Jurisdiction***	22.2 Km	
Other (Describe)		

^{*} Coastline length is the measurement of the national seaward boundary of a country; i.e., the distance from border to border for a coastal country and the distance around an island country.

^{***} Editor's note (2009): The value in original National Report was given as 12 nautical miles; the conversion to kilometers was made by the editor.

		Km of Shoreline	
Marine Shoreline Characteristics*	Undeveloped	Developed**	Total
1. Sand Beach (Total)	√***	V	V
A. High Energy	√	V	√
B. Low Energy	√	V	√
2. Reef (exposed)	****		V
3. Rocks			V
4. Cliffs			√
5. Vegetation (Total)	√	V	V
A. Vines			
B. Grasses			
C. Mangroves			V
D. Coconut Trees			√
E. Other Trees or Shrubs			√
F. Marshes			V
6. Mouths of Lagoons, Rivers, Canals			√
7. Total Shoreline			

^{*} Refer to SEA TURTLE MANUAL (Aerial Survey)

^{**} Editor's note (2009): Value in original document given as 200 nautical miles; conversion to kilometers made by editor

^{**} Human development or use (See MANUAL)

^{***} $\sqrt{\ }$ = Present but not quantified

^{****} Blank = Unknown





State of Part - typical beach.



State of Paul - typical fishing best in use of the orderous see inlets (not necessarily river or creek souths).



Captions (clockwise, starting with upper left):

State of Pará – Area behind beach where turtles are nesting.

State of Pará – typical beach.

State of Pará – typical fishing boat in one of the numerous sea inlets (not necessarily river or creek mouths).

State of Pará – Shrub vegetation behind beach; turtles are supposedly nesting in this area.



State of Part - Preis do Macarico, a recreational beach in the resort town of Salinopolis, Care regularly drive on the beach. A few hundred meters away from the town area see turtles are supposed to seet on this beach.



Stranded, brokes-off seasond on beaches near Icapai, Coare



"Changain" (sailing mft), type of fishing beat, used almost emplacively on SK court of Spacil, Incidentally cought turtless are locally communed (Surus do S. Autônio, Alegene).

Captions (clockwise, starting with upper left):

State of Pará – Praia do Macarico, a recreational beach in the resort town of Salinópolis. Cars regularly drive on the beach. A few hundred meters away from the town area, sea turtles are supposed to nest on this beach.

Stranded, broken-off seaweed on beaches near Icapuí, Ceará.

State of Pará – typical sand beach with stone cliffs behind beach.

"Changada" (sailing raft), a type of fishing boat, used almost exclusively on NE coast of Brazil. Incidentally caught turtles are locally consumed (barra de S. Antônio, Algoas).

		Km of Shoreline	
Marine Shoreline Characteristics*	Undeveloped	Developed**	Total
Sand Beach (Total)	V***	V	V
A. High Energy	****	V	V
B. Low Energy		V	V
2. Reef (exposed)			
3. Rocks			V
4. Cliffs			V
5. Vegetation (Total)			$\sqrt{}$
A. Vines			
B. Grasses			
C. Mangroves	√		$\sqrt{}$
D. Coconut Trees			
E. Other Trees or Shrubs			V
F. Marshes	√		V
6. Mouths of Lagoons, Rivers, Canals	√	V	V
7. Total Shoreline			

^{*} Refer to SEA TURTLE MANUAL (Aerial Survey)

** Human development or use (See MANUAL)

*** √= Present but not quantified

^{****} Blank = Unknown

		Km of Shoreline	
Marine Shoreline Characteristics*	Undeveloped	Developed**	Total
1. Sand Beach (Total)	√***	V	V
A. High Energy	V	√	V
B. Low Energy			
2. Reef (exposed)	****		V
3. Rocks			V
4. Cliffs			
5. Vegetation (Total)			
A. Vines			
B. Grasses			
C. Mangroves			V
D. Coconut Trees	√	√	V
E. Other Trees or Shrubs			
F. Marshes			V
6. Mouths of Lagoons, Rivers, Canals	V	V	V
7. Total Shoreline			Approx. 20
			Km

^{*} Refer to SEA TURTLE MANUAL (Aerial Survey)

** Human development or use (See MANUAL)

*** √ = Present but not quantified

**** Blank = Unknown

		Km of Shoreline	
Marine Shoreline Characteristics*	Undeveloped	Developed**	Total
Sand Beach (Total)	√***	V	V
A. High Energy	√		V
B. Low Energy	√	V	V
2. Reef (exposed)	***		
3. Rocks			V
4. Cliffs			
5. Vegetation (Total)			
A. Vines			
B. Grasses	√	V	√
C. Mangroves			
D. Coconut Trees			
E. Other Trees or Shrubs			
F. Marshes	V		√
6. Mouths of Lagoons, Rivers, Canals	V		V
7. Total Shoreline			

^{*} Refer to SEA TURTLE MANUAL (Aerial Survey)

** Human development or use (See MANUAL)

*** √ = Present but not quantified

^{****} Blank = Unknown

TABLE 2.5. COASTAL HABITAT INVENTORY OF MARINE SHORELINE. STATE OF: RIO GRANDE	Ξ
DO NORTE	

		Km of Shoreline	
Marine Shoreline Characteristics*	Undeveloped	Developed**	Total
Sand Beach (Total)	V***	V	√
A. High Energy	√	√	V
B. Low Energy	√	√	V
2. Reef (exposed)	****		V
3. Rocks	√	√	V
4. Cliffs			V
5. Vegetation (Total)			
A. Vines			
B. Grasses			
C. Mangroves			V
D. Coconut Trees			V
E. Other Trees or Shrubs			
F. Marshes			
6. Mouths of Lagoons, Rivers, Canals			√
7. Total Shoreline			150 Km

^{*} Refer to SEA TURTLE MANUAL (Aerial Survey)

** Human development or use (See MANUAL)

*** √ = Present but not quantified

^{****} Blank = Unknown

TABLE 2.6. COASTAL HABITAT INVENTORY OF MARINE SHORELINE. STATE OF: **PERNAMBUCO**

			Km of Shoreline	
	Marine Shoreline Characteristics*	Undeveloped	Developed**	Total
1. S	Sand Beach (Total)	√***	√ ·	V
Δ	A. High Energy	V	V	√
Е	3. Low Energy	V	V	√
2. F	Reef (exposed)	V		V
3. F	Rocks	V		$\sqrt{}$
4. C	Cliffs	V	V	√
5. V	/egetation (Total)	***		
Α	A. Vines			
Е	3. Grasses		V	√
C	C. Mangroves			V
С	D. Coconut Trees		V	√
E	E. Other Trees or Shrubs			√
F	Marshes	V	V	V
6. N	Mouths of Lagoons, Rivers, Canals	V	√	√
7 T	Total Shoreline			

Refer to SEA TURTLE MANUAL (Aerial Survey)

^{****} Blank = Unknown

TABLE 2.7. COASTAL HABITAT INVENTORY OF MARINE SHORELINE. STATE OF: ALAGOAS

		Km of Shoreline	
Marine Shoreline Characteristics*	Undeveloped	Developed**	Tota
Sand Beach (Total)			√
A. High Energy	√***	V	V
B. Low Energy	√	V	V
2. Reef (exposed)	√		V
3. Rocks	****		V
4. Cliffs			V
5. Vegetation (Total)			
A. Vines			
B. Grasses			
C. Mangroves			
D. Coconut Trees		$\sqrt{}$	$\sqrt{}$
E. Other Trees or Shrubs			V
F. Marshes			V
6. Mouths of Lagoons, Rivers, Canals			V
7. Total Shoreline			

Refer to SEA TURTLE MANUAL (Aerial Survey)

^{**} Human development or use (See MANUAL)

^{***} $\sqrt{\ }$ = Present but not quantified

^{**} Human development or use (See MANUAL)

*** √ = Present but not quantified

^{****} Blank = Unknown

		Km of Shoreline	
Marine Shoreline Characteristics*	Undeveloped	Developed**	Total
Sand Beach (Total)	V***	V	√
A. High Energy	V	V	V
B. Low Energy	V	V	V
2. Reef (exposed)	V	V	V
3. Rocks	V	V	V
4. Cliffs	V	V	$\sqrt{}$
5. Vegetation (Total)	****		
A. Vines			
B. Grasses			V
C. Mangroves			V
D. Coconut Trees			V
E. Other Trees or Shrubs			V
F. Marshes			V
6. Mouths of Lagoons, Rivers, Canals	V	V	V
7. Total Shoreline			

^{*} Refer to SEA TURTLE MANUAL (Aerial Survey)

** Human development or use (See MANUAL)

*** √ = Present but not quantified

**** Blank = Unknown

Habitat Bottom Types	Km² o	f Habitat
•	Inside 25m (shoreward)	Outside 25m (shoreward)
1. Sand	√*	***
2. Mud	V	
3. Rocks	V	
4. Submerged Vegetation	**	
5. Reefs (Total)	V	V
A. Fringing Reefs		
B. Patch Reefs	V	√

Habitat Bottom Types	Km ² of Habitat		
• •	Inside 25m (shoreward)	Outside 25m (shoreward)	
1. Sand	V	i	
2. Mud	V		
3. Rocks	V		
4. Submerged Vegetation			
5. Reefs (Total)	V		
A. Fringing Reefs			
B. Patch Reefs			

Habitat Bottom Types	Km ² of Habitat			
• •	Inside 25m (shoreward)	Outside 25m (shoreward)		
1. Sand	V	·		
2. Mud				
3. Rocks	V	V		
4. Submerged Vegetation	V	V		
5. Reefs (Total)	V	V		
A. Fringing Reefs				
B. Patch Reefs	√	V		

Habitat Bottom Types	Km ² of Habitat		
, ,	Inside 25m (shoreward)	Outside 25m (shoreward)	
1. Sand	V	,	
2. Mud			
3. Rocks	$\sqrt{}$	$\sqrt{}$	
4. Submerged Vegetation		V	
5. Reefs (Total)		V	
A. Fringing Reefs			
B. Patch Reefs		V	

Habitat Bottom Types	Km ² of Habitat		
•	Inside 25m (shoreward)	Outside 25m (shoreward)	
1. Sand	V	Ì	
2. Mud			
3. Rocks	V	V	
4. Submerged Vegetation	V	V	
5. Reefs (Total)	V	V	
A. Fringing Reefs			
B. Patch Reefs	V	V	

Habitat Bottom Types	Km ² of Habitat		
· .	Inside 25m (shoreward)	Outside 25m (shoreward)	
1. Sand	V	·	
2. Mud			
3. Rocks	V	V	
4. Submerged Vegetation	V	V	
5. Reefs (Total)	$\sqrt{}$	V	
A. Fringing Reefs	$\sqrt{}$	V	
B. Patch Reefs	$\sqrt{}$	V	
6. Other:	V	V	

Km ² of Habitat			
Inside 25m (shoreward)	Outside 25m (shoreward)		
ý	V.		
V	V		
V	V		
V	V		
V	V		
V	V		
	V		

Habitat Bottom Types	Km ² of Habitat			
,	Inside 25m (shoreward)	Outside 25m (shoreward)		
1. Sand	V	V		
2. Mud				
3. Rocks	V	V		
4. Submerged Vegetation	V			
5. Reefs (Total)	V	V		
A. Fringing Reefs	V	V		
B. Patch Reefs	V	V		
6. Other:		V		

Name of Beach	Length In Km	Species Nesting (use abbreviations)*	Months of Recorded Nesting
**		Cm, E	May-August (peak in June)
Species*	Abbreviation		
Caretta caretta	Cc		
Chelonia mydas Dermochelys coriacea	Cm D		
Eretmochelys imbricata	E		
Lepidochelys kempi	Lk		
Lepidochelys olivacea	Lo		

TABLE 3.2. NESTING BEACH INVENTORY. STATE OF: MARANHÃO List beaches in geographic sequence. Provide additional information on following page.				
Name of Beach	Length In Km	Species Nesting (use abbreviations)*	Months of Recorded Nesting	
**		Cm, E	December-February (unreliable)	
Species*	Abbreviation			
Caretta caretta Chelonia mydas	Cc Cm			
Dermochelys coriacea	D			
Eretmochelys imbricata	E			
Lepidochelys kempi	Lk			

Lepidochelys olivacea	Lo
** There are many beaches a	along this coast where nesting takes place. Beaches accessible only by

TABLE 3.3. NESTING BEACH INVENTORY. STATE OF: CEARÁ

List beaches in geographic sequence. Provide additional information on following page.

sea or air. No beaches were visited. Several villages have airstrips for easy access.

Name of Beach	Length In Km	Species Nesting (use abbreviations)*	Months of Recorded Nesting
***		D**, E	December-mid-April
Species*	Abbreviation		
Caretta caretta	Сс		
Chelonia mydas	Cm		
Dermochelys coriacea	D		
Eretmochelys imbricata	E		
Lepidochelys kempi	Lk		
Lepidochelys olivacea	Lo		
·			

^{**} Reliable report of only one nesting episode of Dermochelys coriacea in Ceará (1978)

TABLE 3.4. NESTING BEACH INVENTORY. STATE OF: PIAUÍ

List beaches in geographic sequence. Provide additional information on following page.

Name of Beach	Length In Km	Species Nesting (use abbreviations)*	Months of Recorded Nesting
**		Cm (some), E	December-March (unreliable)
Species*	Abbreviation		
Caretta caretta	Сс		
Chelonia mydas	Cm		
Dermochelys coriacea	D		
Eretmochelys imbricata	E		
Lepidochelys kempi	Lk		
Lepidochelys olivacea	Lo		

^{**} Most of the shoreline in Piauí consists of sandy beaches with a wide band of sand dunes behind them. Only the western-most stretch (~ 10 km) at the border with Ceará has some dry grasses reaching the coast.

TABLE 3.5. NESTING BEACH INVENTORY. STATE OF: RIO GRANDE DO NORTE

List beaches in geographic sequence. Provide additional information on following page.

Name of Beach	Length	Species Nesting	Months of Recorded Nesting
	In Km	(use abbreviations)*	
1. Maxaranguape		Е	December-March
2. Caraubas		Cc, Cm, E	January-March
3. Maracajaú		Cm, E	January-March
4. Zumbi		Cc, E	

Shoreline practically one continuous beach, but subdivided into several beaches with separate names. Total beach length approximately 200 km.

	Cc, Cm, E	
	Cm, E	December-March
Abbreviation		
Cc		
Cm		
D		
E		
Lk		
Lo		
-		
	Cm D E Lk Lo	Abbreviation Cc Cm D E

TABLE 3.6. NESTING BEACH INVENTORY. STATE OF: PERNAMBUCO

List beaches in geographic sequence. Provide additional information on following page.

Name of Beach	Length In Km	Species Nesting (use abbreviations)*	Months of Recorded Nesting
***		Cm**, E	December-March
Species*	Abbreviation		
Caretta caretta	Cc		
Chelonia mydas	Cm		
Dermochelys coriacea	D		
Eretmochelys imbricata	E		
Lepidochelys kempi	Lk		
Lepidochelys olivacea	Lo		

Only occasionally

TABLE 3.7. NESTING BEACH INVENTORY. STATE OF: ALAGOAS

List beaches in geographic sequence. Provide additional information on following page.

Name of Beach	Length In Km	Species Nesting (use abbreviations)*	Months of Recorded Nesting
***		Cm**, E**	January-February
Species*	Abbreviation		
Caretta caretta	Сс		
Chelonia mydas	Cm		
Dermochelys coriacea	D		
Eretmochelys imbricata	E		
Lepidochelys kempi	Lk		
Lepidochelys olivacea	Lo		

Neither species nesting in large numbers

Shoreline is mostly one continuous beach subdivided by separate names into many beaches. Only beaches south of Recife were visited, but extrapolation for entire state seems justifiable.

Shoreline is mostly one continuous beach (with breaks for rivers). Beach subdivided by separately named beach sections. Extrapolation justifiable. Beaches visited: Guadalupe, Gamela, Carneiros, and Goia

List beaches in geographic	sequence. Provi	de additional information on	lollowing page.
Name of Beach	Length In Km	Species Nesting (use abbreviations)*	Months of Recorded Nesting
**		Cc (many), Cm (some), E (some), Lo (rare)	
Species*	Abbreviation		
Caretta caretta	Сс		
Chelonia mydas	Cm		
Dermochelys coriacea	D		
Eretmochelys imbricata	E		
Lepidochelys kempi	Lk		
Lepidochelys olivacea	Lo		

TABLE 7. FORAGING AR	EAS INVENTORY		
Name of Area (or give coordinates)	Approx. Area (Km²)	Species Foraging (use abbreviations & approx. numbers)	Nature of Evidence (observation, fishery, incidental catch)
1. State of Maranhão	Along the western half of the coast	Cm	Hearsay and extrapolation of observed algae fields off the coast of Ceará.
2. State of Piauí	Along entire coast	Cm, E	Extrapolation of observed fields in Ceará and actual observation of part of the Piauí fields.
3. State of Ceará	Along entire coast	Cc, Cm, E	Personal observations, interviews, stomach contents.
4. State of Rio Grande Do Norte	Entire coast ?	Cc, Cm, E	Personal observation along central part of the coastline. NW and SE coast unknown but should be alike.
5. Islands of Fernando De Noronha	All around islands	Cm, E	Consistent reports of major feeding fields; from interviews. (approx. 280 km off main coast of Brazil).
6. State of Paraíba			No information but should be foraging area because of coast similarity.
7. State of Pernambuco	Along entire coast	Cc, Cm, E	Observation; interviews.
8. State of Alagoas	Along entire coast	Cc, Cm, E	Observation; interviews; tag returns.
9. State of Sergipe		Cc, Cm, E, Lo	No information, but should be foraging area because of coast similarity. Interview. Lo apparently rare.
10. State of Bahia: Arquipélago de Abrolhos (off the southeast coast of state of Bahia)	Around the islands	Cc, Cm, E, Lo (rare)	Interview.

Species	Abbreviation
Caretta caretta	Cc
Chelonia mydas	Cm
Dermochelys coriacea	D
Eretmochelys imbricata	E
Lepidochelys kempi	Lk
Lepidochelys olivacea	Lo

TABLE 8. TURTLE SPECIES PRESENT ON FORAGING AREAS

Please complete one of these tables for each of the areas identified in Table 7. Number each table as enumerated in Table 7 (7-1, 7-2, etc.).

Species						Мо	nth						Months of Greatest Activity
	J	F	М	Α	M	J	J	Α	S	0	N	D	
Caretta caretta*													Unknown
Chelonia mydas**	X	Х	Х	Х	Х	Х	Х				Х	Х	March-July
Dermochelys coriacea													
Eretmochelys imbricata***	X	Х	Х	Х	Х	Х	Х	Х	Х	X	Х	Х	Unknown, but occurrence all year around
Lepidochelys kempi													
Lepidochelys olivacea													

^{*} Not many, but evident

TABLE 9. NON-FORAGING TURTLES AT SEA.

Please provide any information available on the incidence of turtles in offshore areas.

Location (Give Lat. & Long. Coordinates)	Date	Species and Est. Nos. (Abbreviations)	Comments
Approx. 47°50' W and 0°10' S in State of Pará	Early 1970s	D	One specimen was speared but was discarded as useless. Another specimen was roped and used to pull the boat in fun, ostensibly released later.
Off the coast of the State of Rio Grande Do Norte	Regularly	D	Sporadic sightings by fishermen "far" out at sea (≥15 km). One fisherman's claim of regular sightings (~ 7 km out).
Species	Abbreviation	า	
Caretta caretta	Сс		
Chelonia mydas	Cm		
Dermochelys coriacea	D		
Eretmochelys imbricata	E		
Lepidochelys kempi	Lk		
Lepidochelys olivacea	Lo		

^{**} Many

^{***} Many but less than Cm (Chelonia mydas)

Name of Port or Site*	Species	Fishing Gear	Months of	Numbers & Weights			
	Landed	Used	Landings	(estimate)			
Bitupita (State of Ceará)	Cm, E	Floating, hanging nets; baited fishlines	April-May (most)				
Almofala (State of Ceará)	Cm, E	Floating, hanging nets	July (largest catches)	Up to 30/day			
Icapuí (State of Ceará)	Cm, E	Floating, hanging nets	May (largest catches)	One fisherman had 200 Cm in one year			
	A11						
Species	Abbrevia	ition					
Caretta caretta	Сс	Cc					
Chelonia mydas	Cm	Cm					
Dermochelys coriacea	D	D					
Eretmochelys imbricata	E	E					
Lepidochelys kempi	Lk	Lk					
Lepidochelys olivacea	Lo						

^{*} Although all sea turtle taking has been prohibited since 1978, some turtle fishing continues. The named areas were visited but fishing appears to continue in many more beach areas

Do not include turtles caugh	t incidental to	other fishing	g operations (e	e.g., shrimp trawling)
Species	1982	1981	1980	Method of Determination
Caretta caretta	*	*	*	
Chelonia mydas	*	*	*	
Dermochelys coriacea	*	*	*	
Eretmochelys imbricata	*	*	*	
Lepidochelys kempi	*	*	*	
Lepidochelys olivacea	*	*	*	

TABLE 13.1. ESTIMATEI weights). STATE OF: PA		NTAL TURTLE CATCH (Give estimated numbers and/or
Species	Year	Type of Fishing Activity & Method of Estimation
Caretta caretta		
Chelonia mydas		Fishweirs. All year around. During height of the season (January - May) catch = approximately 2-3 per 10 fishweirs per day. However, Pará must have more than 1,000 weirs in operation*
Dermochelys coriacea		·
Eretmochelys imbricata		Same as for Cm but not as many E are being caught*
Lepidochelys kempi		
Lepidochelys olivacea		

TABLE 13.1. ESTIMATED INCIDENTAL TURTLE CATCH (Give estimated numbers and/or weights). STATE OF: PARÁ				
Species Year Type of Fishing Activity & Method of Estimation				
* Specimens caught are 30 centimeters to adult size. All are locally consumed. Data are for the period up to 1980, but there is no reason to assume it is any different now.				

TABLE 13.2. ESTIMATED INCIDENTAL TURTLE CATCH (Give estimated numbers and/or weights). STATE OF: CEARÁ			
Species	Year	Type of Fishing Activity & Method of Estimation	
Caretta caretta		Fishweirs	
Chelonia mydas		Fishweirs. Up to 3 specimens per day. Ceará may have well over 100 fishweirs. Shark nets, because of large maze size; small ones (hatchlings, yearlings?) are not usually being caught	
Dermochelys coriacea		Fishweir. DC (Dermochelys coriacea) caught, but rarely	
Eretmochelys imbricata		Fishweirs	
Lepidochelys kempi			
Lepidochelys olivacea			

Market	Method of Data Collectior
Price/Unit	
No. of eggs	
Meat (kg)	
Shell No./ Wt.	
Skins No./ Wt.	
Stuffed Juveniles	

catch data for NE Brazil for the period 1976-1978.

TABLE 15A. OFFICIAL STATISTICS OF TURTLE CATCH AND PRODUCTION (supplementary page)

Please provide any additional data on turtle products produced in your country. Include manufactured products such as tortoise shell novelties, etc., if such data are available.

Editor's note (2009): This table is listed as Appendix D in the original National Report

Turtle catches* in the northeast states of Brazil. Data provided by SUDERE, Recife.				
State	Years	Hawksbill	Green Turtle	Loggerhead
Maranhão	1977	100		
	1978	150		

Piauí	1976	67	504	6
	1977	48	1,530	
	1978	44	985	
Ceará	1976	58	5,333	
Ocara	1977	113	3,167	
	1978	51	2,016	
	1976	31	2,010	
Rio Grande Do Norte	1976	4,186		
	1977	1,026	677	81
	1978	244	1,238	
Paraíba	1976	208		
	1977	107		
	1978	45		
D	1070	000	47.400	
Pernambuco	1976	223	17,483	
	1977	15	1,213	
	1978		467	
Alagoas	1976	7		
	1977			
	1978	369		
Sergipe	1976	?	?	
3 0.9.p0	1977	?	?	
	1978	72		
Dobio	1076	?	?	?
Bahia	1976 1977	•	-	· · · · · · · · · · · · · · · · · · ·
		90	1,812	4,024
	1978		400	1,759
Totals for the NE states	1976	4,740	23,410	
	1977	1,684	8,399	4,111
	1978	975	5,106	1,759
* Weighed in kilograms, pr	ohahly without	the head intestine	e caranace and plactr	on

TABLE 16. EMPLOYMENT DEPENDENT ON TURTLES			
Activity	Total Annual Numbers of Persons	Est. Annual Income From Turtles	Comments*
* Since 1978 sea turtles have been fully protected by law. Therefore, since that year there should be no official employment data involving sea turtle exploitation			

TABLE 18. PUBLIC AND PRIVATE INSTITUTIONS CONCERNED WITH TURTLE
CONSEDVATION/MANAGEMENT/LITH IZATION

Institution or Organization Name And Address	No. of Active Members	Activities in Progress
IBDF (Brasileiro de Desenvolvimento Florestal) S.A.I.N AV 1/4 5/No Brasilia D.F. 70.300 Brazil		IBDF has offices in all states; only recently concerned with sea turtles. Apparently, IBDF has some biologists visiting beaches occasionally. Nothing further known
LABOMAR(Laboratório de Ciências do Mar) Universidade Federal do Ceará Caixa Postal 1072 60-000 Fortaleza Ceará Brazil		Current activities unknown. But in the past have done algae field inventory and sea turtle stomach content analysis. Very cooperative institute with good facilities. (See the literature list for some of their contributions)

TARIF 19	SANCTUARIES		REFLIGES
IADLL 13.	SANCIUANILS	AIND	IVEL OGES

Name and Location	Area Km ²	Reason(s) for Protection	Type and effectiveness of Enforcement
Atol da Rocas (Approx. 200 Km east- northeast off Natal, state of Rio Grande do Norte)		Massive nesting of Cm (Chelonia mydas). Also some E (Eretmochelys imbricata)	Recently made a sanctuary. No control but atoll is very inaccessible. Rarely visited
Ilha de Santo Aleixo Just a few kilometers offshore in the state of Pernambuco at the mouth of the Rio Sirinhoéin	Less than 1 km²	Eretmochelys imbricata nest here in numbers (December-January)	Private island of conservationist Tr. Carlos Anteanic Mendezes (Recife). He protects E (<i>Eretmochelys</i> imbricata)

TABLE 20. REGULATORY AUTHORITY

Indicate all entities with statutory responsibilities (e.g., Fisheries Departments and Ministries, Police, Coast Guard, etc.)

Name and Address of Organization	Budget	No. of	Comments on Levels of
	Allocation	Staff	Enforcement
	to Turtles	Assigned	
		to Turtles	
IBDF*			Currently this is the authority
(Brasileiro de Desenvolvimento Florestal)			under whose jurisdiction sea
S.A.I.N AV 1/4 5/No			turtles rest.
Brasilia			
D.F. 70.300			
Brazil			
Telephone: (061) 1711 or 2120			
SUDENE*			SUDENE is represented in every
(Superintendência do Desenvolvimento			state of northeast Brazil. Not sure
do Nordeste)			what their official jurisdiction is,
Departamento de Recursos Naturais			but SUDENE can open many
Cidade Universitária			doors.
Recife, Pernambuco			

SUDEPE*	This is the fisheries department.		
(Superintendência do Desenvolvimento	Address given is for the state of		
da Pesca)	Para and Amapa territory. All		
Travessa Padre Prudêncio 226	states have a SUDEPE office.		
Belém, Pará	Turtle fisheries used to be under		
CEP 66,000	them.		
* IBDE_SUDENE and SUDEPE are all under the Ministry of Agriculture			

^{*} IBDF, SUDENE and SUDEPE are all under the Ministry of Agriculture

TABLE 20A. REGULATORY AUTHORITY (supplementary page)

Please list National, regional, and local legislation concerning turtle management and conservation. List title, date, and stated purpose.

PORTARIA No. 18, dated 29 October 1976, provides restrictions in the taking of sea turtles for all of Brazil. A copy is attached with a copy of the translation (abbreviated) done by the Brazilian Embassy in Suriname.

In 1978 a new PORTARIA was issued, prohibiting the taking of any sea turtle in Brazil. Al-though a copy of this Portaria was shown, no copy was made available.

English Translation (Summary) of Portaria no. 18 Van 29-10-1976 (Brazil)

No. 95 Act No. 18 do 29-10-1976 SUDEPE

Is forbidden the seizure of sea turtles

This determination does not apply to species such as Chelonia mydas and Caretta caretta.

The gathering of sea turtle eggs is prohibited except for the precept under the exclusive paragraph from the 1° art. Landing, transport, commercialization, or the simple imprisonment of sea turtles and of eggs of any kind from these Chelonians is also prohibited. It is prohibited to harass sea turtles at reproduction areas.

It is authorized hereby, the fishing of sea turtles of the species and dimensions discriminated as follow:

- a) yearly from May 1st till November 30
- b) exclusively by skilled fishermen
- c) Chelonia mydas 80 cm Caretta caretta – 70 cm

PORTARIA SUDEPE Nº 18, DE 29 DE OUTUBRO DE 1976

Proíbe a captura de tartarugas marinhas.

O Superintendente da Superintendência do Desenvolvimento da Pesca - SUDEPE, no uso das atribuições que lhe são conferidas pelo artigo 2º, inciso VII, do Decreto nº 73.632, de 13 de fevereiro de 1974, tendo em vista o disposto no artigo 33, § 2º, do Decreto Lei nº 221, de 28 de fevereiro de 1967, e o que consta do Processo nº S/8800/73, resolve:

Art. 1º - Proibir a captura de tartarugas marinhas.

Parágrafo Único. O disposto neste artigo não se aplica às tartarugas das espécies *Chelonia mydas* e *Caretta caretta*, na forma disciplinada nesta Portaria.

- Art. 2° É proibida a colheita de ovos de tartarugas marinhas.
- Art. 3° Ressalvado o disposto no parágrafo único do artigo 1°, são vedados o desembarque, o transporte, a comercialização ou a simples detenção de tartarugas marinhas e de ovos de qualquer espécie desses quelônios.
 - Art. 4° É defeso molestar tartaruga marinha nos locais de reprodução.
- Art. 5° A pesca de tartarugas marinhas das espécies e nas dimensões a seguir disseminadas é permitida, anualmente, no período de 1° de maio a 30 de novembro, exclusivamente a pescadores artesanais:
 - I Chelonia mydas 80 cm;
 - II Caretta caretta 70 cm;

Parágrafo Único. As medidas a que se refere este artigo correspondem ao comprimento da carapaça superior tomado, em linha reta, da extremidade do bordo anterior à do bordo posterior.

Art. 6° - As licenças para a pesca das espécies permitidas serão fornecidas anual e gratuitamente, pela SUDEPE, a pescadores filiados a cooperativa ou colônia de pescadores.

Parágrafo Único. As entidades mencionadas neste artigo informarão ao órgão regional da SUDEPE, mensalmente ou quando por esta solicitado, o número dos indivíduos capturados, segundo a espécie.

- Art. 7° Aos infratores da presente Portaria serão aplicadas as penalidades previstas no artigo 56 do Decreto Lei nº 221, de 28 de fevereiro de 1967, sem prejuízo da suspensão, pelo prazo de um ano, das licenças concedidas.
- Art. 8° Obrigam-se as cooperativas e colônias de pescadores a denunciar as irregularidades praticadas por seus associados, sob pena de serem excluídas, durante um ano, dos benefícios desta Portaria.
- Art. 9° Esta Portaria entra em vigor na data de sua publicação, revogadas as disposições em contrário.
 - Josias Luiz Guimarães, Superintendente.

Publicado no Diārio Oficial de 09 de novembro 1976

REPORTS AND PUBLICATIONS

The following is a list of the major reports and publications concerned with national turtle resources (list author, date, title, and publisher).

- Carvalho, E. 1972. Sobre a produção pesqueira de alguns currais-de-pesca do Ceará-Dados de 1968 a 1970. Bol. Cien. Mar. 24:1-9.
- 2. Carr, A. 1975. The Ascension Island green turtle colony. Copeia 3: 547-555.
- 3. Da Costa, R.S. 1969. Algunas dados biologicos de aruana *Chelonia mydas* (Linnaeus) nas aguas cearenses. B. Est. Pesca (9):20-29.
- 4. Ferreira, M.M. 1968. Sobre a alimentação da aruana, *Chelonia mydas* Linnaeu, do longo da costa do estado Ceará. Arq. Est. Biol. Mar. Univ. Fed. Ceará 8: 83-86.
- 5. Ferreira De Manezes, M. 1976. ² As tartarugas marinhas do Brasil. Arg. Cien. Mar. 12(1): 17-20.
- Paiva, M.F. and H. Nomura. 1965. Sobre a produção pesqueira de alguns currais-de-pesca do Ceará-Dados de 1962 a 1969. Arq. Est. Biol. Mar. Univ. Fed. Ceará 5: 175-214.
- Paiva, M.F. and A.A. Fonteles Filo. 1968. Sobre a produção pesqueira de alguns currais-de-pesca do Ceará-Dados de 1965 a 1967. Bol. Est. Biol. Mar. Univ. Fed. Ceará, Fortaleza 16: 1-8.
- 8. Pritchard, P.C. H. 1975. Post-nesting movements of marine turtles (*Cheloniidae* and *Dermochelyidae*) tagged in the Guianas. Copeia 4: 749-754.
- Schulz, J.P. 1975. Sea Turtle Nesting in Suriname. Zool. Verh. Rijksmus. Nat. Hist. Leiden, No. 143: 1-143.

<u>l=us&lr=lang_en</u>, on 24 June 2008.

² Editor's note (2009): Original National Report documents listed publication date as 1972. Editor found publication date of 1976 as per website: http://209.85.165.104/search?q=cache:2d14GEWovD8J:ftp://ftp.fao.org/docrep/fao/009/t0244e/T 0244E08.pdf+%22Menezes%22+%22tartarugas+marinhas+*+Brasil%22&hl=en&ct=clnk&cd=2&g

THE AD HOC DATA REPORT EL REPORTE DE DATOS AD HOC



MESTERN ATLANTIC TURTLE I'VEOSIUM

San Jose, Costa Rica July 1987. AD HOC DATA REPORT FOR THE COUNTRY OF

BRAZIL

Prepared by: H.A. Reichart

P.O. Box 436 Paremeribo

Surtness

11 April 1983

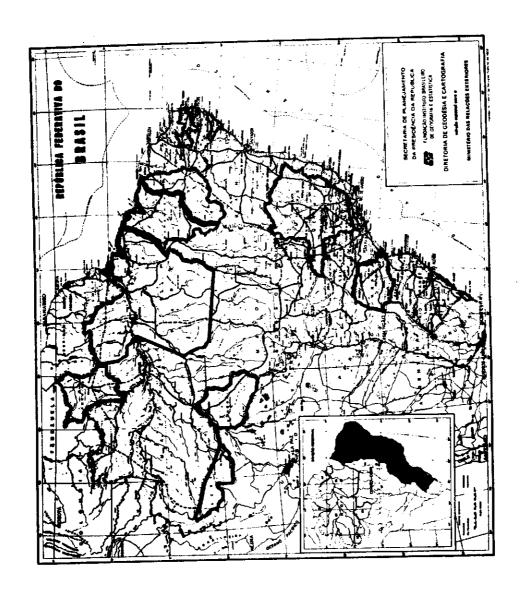
17-22 July/Julio 1983 San Jose, Costa Rica

Simposio de Torres









Heat of the information for this Ad Hee Data Report on Brazil has been obtained during fieldtrips to the openial morthment region of the sountry in 1979 and 1980 on part of MAY/INGS Project # 1803, "Operation Handstart", green ass tortle population Surisans-Broatl. The purpose of that project me to mailor be returns from emptive-reserve gross son turble yearlings, released to the sea from Sariasa meeting beaches, Saring these fieldtrips to Bingilian constal areas it som boune svident that Brazil had unity nore one terriles then next people were sears of, and that there exists a miderable pasetty of available information on the subject. Therefore, the goals of Project # 1803 were redefined to include the gathering of all sen turtle information that sould be obtained during the course of the Project's fieldtrips, and to make this evaluable to Brazilian estherities; this has been occumplished. There is, bourser, still a wealth of data to be gathered, out there as the bunches and in the Material Resource Department offices, but it will require the efforts of dedicated fieldworkers to estment it and put it to use.

This At Not Into Report has been metaled after the Sational Report format, but where desmed desimable, supplementary information and photographs have been inserted in suitable places.

Brazil has 16 states and one territory handering on the Atlantic Ocean; all have one territor in their offence unterm and most also have assting banches.

Personal observations received priority in entaring date into the tables, but next information was obtained from SCORIS. SENSES, and the various numberic institutions visited. Additional date case from interviews with futural, state, and local officials. Information obtained from finherous and other apparently insulaigeable pursues as or near the beaches was double-shoulded and, when thought to be reliable, was assopted. Bureliable data were recented in the fieldsooten, but were either not used in the Maria separate or ware marked as being unreliable.

in a supplemental reference a copy of the surrent status report for unf/NUE Project # 1803 has been coalcook, From it, parkage, additional information may be glossed for the Symposium recessio.

then seviceing this Ad Ree Data Report for Brazil it is along that samp gaps exist in the requested information and that practically no numerical data have been supplied. What the Ad Ree Data Report does provide in a Starting in the north, at the bunder with Presch Smissa, they are:
the Turritary of Assays, and the States of Pars, Harmatic, Pieni, Cours,
Nic Smeade do Serte, Parsits, Parsantono, Alagons, Sengipe, Bakis, Repirito
Hento, Nic de Jeneiro, Mio Panio, Parsani, Sunta Catarina, Nic Gassie do Sul.
Of these, the fullering states were visited: Pars, Barranifo, Gasmi, Nic
Grande do Serte, Parsantono, Alagone, Bakis.

We nested nearth of Rubin ware visited, which means that only about half of Rubil's constline has been complet. There are reports of turtice senting in Repfrite Santo and large menting populations of <u>Sarvice sarvice</u> on the beaches of Rio Cremie do Sal, the contherment state of Rubil.

Shore precible a stendard SAIS table was used to describe a particular condition for Small as a whole - for instance, table 5, beach curvey commany, could be filled out for all of Small, became there is no knowledge of any sarial see turtle curveys over inving been performed in Small; or table 19, store all the currently known one turtle conclusives or sufuges in Small; could be placed on this one page. On the other hand, none tables had to be filled out on a state-by-crate basis, superially tables 2, 24, and 3. For elarification all tables used are based by either the word "Small" or the same of the particular state in order to indicate whether the table applies anticoxide or statewide.

Although the States of Final, Paralla, and Sengipe were not visited, they are located between states that years visited and none continue, generalized extensions have been made about some expects, due to comparable conditions in the neighboring exists.

-5

unther general overview of the election in the newtonest region of Small. In this the report would serve an a starting point on which to cotablish priorities for future Smallian action plane regarding their sea turble researce. It should be researced that my each plane to developed and essential on sub-original, professably other-by-case, known, asterally with along proposation and essentiation between the others.

An execut in the introduction, a good consent of valuable data on one turbles in Bangil in buried in the filing enhance of the various entural resource offices and conducte institutions of the constal states. There are also a number of field finherice offices with practical con turble inco-dow, any expensions can turble connectation or research program about start by first escinilating this information to provide additional base data,

AND OUR DESIGNATION

It would have been impossible to obtain the information provided here were it not for the excellent assessment given during the finiteers by the effices and personnel of SECON, and SECON in Part, Onese, the Counts do Serte, Personness and Babie. The marine laboratories of the Brivensities of Onese, his Counts do Sorte and Babie wave also of incommanda help.

[·] Assesym explained in tables 18 and 30, or in appendix 3 of Report \$100).

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Langth of Coastline"		.						 	7408	v
or Continental Si	helf Arms	<i>.</i>						 ٠.		K,r
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fisheries Jerisd	istlen	12	ne.	it rice	1, =	rjei	٠.	 		t-

THELE 1. GEOGRAPHIC INVENTORY

Coastline length is the measurement of the mational seaward boundary
of a country; i.e., the distance from horder to border for a coasta?
 country and the distance around an island country.

STATE OF PAIN

	, ton	DE SHYRELLINE	
MARTHE SHOWELINE CHARACTERISTIES*	out) At Could	11 AET ULF D.++	TOTAL
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t, Cliffs			V
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D, Gresses			ļ
C. Hengroves		 	<u> </u>
B, Coconut Trees		!	
E. Other Trees or Shrubs		<u> </u>	<u> </u>
F. Harshes		ļ	<u>/</u>
6. Houths of legoons, rivers, canals		ļ	<u> </u>
7. Total Shoreline		<u> </u>	<u></u>

TABLE 2. COASTAL HABITAT INVENTORY OF MARINE SHIRELINE ** Human development or use (See MARINE)



many of hard - Area lented boach where turtles are senting.



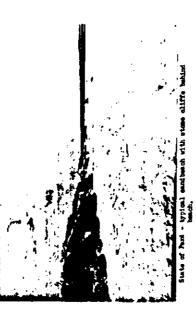
Seate of Park - typical batch-





State of Part - Shreb vegetation behind beach; tertles are supposedly sesting in this area.

State of Anni - Paris do Manurico, a recreational beach in the resent term of Malibpolis, Cars regularly drive on the beach. A few beaches sent from the term area sen turilise are supposed to meet on this beach.



BLONK = LINKNOWN V = PERSENTAUT NOT STATE OF CEREA

STATE OF CERKA	V = PERSENI, BUT NOT GUANTINED	1 007 60	766100
	5	to OF SHORELINE	
MAIN TOWNS IN CHARLELING CHARACTERS .	MENT WELTHED	MENTAL COLO MARTURA.	ากเลเ
1, Sund Beach (Total)	/	/	/
A, High Centyy	1	\	1
8. Law Emergy	\	7	1
2. Reaf (expessed)			/
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1. C11FFs			\
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A, Vings			
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8. Cocomut Trees	/	/	7
E. Other frees or Shrubs			
F. Harshes			>
6. Houths of layouns, rivers, consis	/	/	>
7, fatal Sheretine			20000

TABLE 2: COASTAL HANTER ENVENIORS OF MARINE SHOWELING on Human development or use (See Mahin)

BLANT - SINEMANN V = MESENT, BUT NOT QUANTIFIED. STATE OF MAKAUNÃO

MUNICIPAL CHARGE CHARACTER PROPERTY OF THE PARTY OF THE P	Þ	In of Shores 146	
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4. Cliffe			. :
S. Vegetation (Total)			7 /
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B. Bresses			
C. Mangroves	>		1
O, Coconut Irees			
E. Other Trees or Shrubs			/
F, Marshes	>		/
6. Houths of lagons, rivers, canals	/	7	7
7. Total Shereline			

TABLE 2. CONSTAL HABITAT IMPENTABLE OF MARINE SHYRELINE OF Hymon Americament of use (See MANNAL)

BLANK . UNENCHA

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C. Magrores			
D. Coconut frees			
E. Other Trees or Shrubs			
f. Marshes	7		1
6. Meuths of lapoons, rivers, canals	7		7
7, Tatel Shereline			

THREE 2. CONSTAL MAGENT INVESTIGATE OF MARINE SHERTLING OF Name Advelopment of use MARINE.



Planning, breken-eff second in brother near laughl, to



states of the second of Smell, Sectionally couply turtles ten loughly empress (here to 8. arthrio, slagens).

BLA WK - INW NOWN

STATE OF PERVANDUCO	STREET SAT NOT QUANTIFED	NOT QUA	erieie
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8. Law Emergy	7	`	>
2. Neef (expored)	>		1
J, Nocts	`		1
4. C1180s	`	>	1
5. Vegetation (fotal)			
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D, Groses		>	1
C. Mangroves			>
0. Cocomut frees		>	>
C. Other Trees or Shrubs			>
F. Marshas	/	>	/
6. Mouths of legions, rivers, canals	\frac{1}{2}	/	>
7. Total Shareline			

on the formal survival on the survival or use (See Matin)

TABLE 2. CONSTAL HARITA

BLANK - UNKARNIN

STATE OF AND CHANDE ON NORTH VE DE	Seu 1, 60)	V = PRESENT BUT NOT GUASTIFIED	ميندون
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PRINT VEHICLE CHANGELLES	IMPLYS LAWED	H YELDPIR**	WIUI
1, Sand Seach (Tetal)	/		
A, High Energy	/	\	1
I. Law Energy	/	>	>
2. Steef (exposed)			>
J. Rocks	<i>'</i>	/	
i. chith			>
5. Vegetation (Tatal)			
A. Vines			
8, Gresses			
C. Mangroves			/
D. Cotonut Trees			7
E. Other Trees or Shrubs			
f. Marshes			
fi. Mouths of layoons, rivers, canals			/
P. Total Shoreline			15C KM

* Refer to SEA HORITAL INVENTIONY OF MARINE SHORELIME ** Numan Asset number; or use (Sea MANAN)

BLANK - WARREWN V = IRESENT BUT NET QUANTIFIED

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A Defer to SIA EINTER THEFITORY OF MARTHE SHORELINE OF HUMAN Journal Southern Cor use (See where)

BLANK . LINKNOWN.

MITS, 2. 25m (SEANARD)

THEY DE 25m (SHOPFIAARD)

Km? OF HARTTAT

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- PRESENT, BUT NOT GUANTIFIED TABLE 2A. MARINE HABITAT INVENTORY IN BOTTOM TAPLE HABITAT BOTTON TIPES - NOT PROVENT BLANK . UNKNOWN STATE OF PARK 4, Submrryed Vegetation A. Fringing Reefs 5. Patch Reefs S. Roefs (Total) 3. Rocht 6. Ather Sand **≱** / > V + PRESENT BUT NOT QUANTIFIED ¥I.c. NA DE SHIMEELM MARRINE SHARFLENF CHARACTERISTICS* Meeths of legoons, rivers, canals TATE OF BANIA E. Other Trees or Shrubs Sand Beach (Total) Tegetation (Total) 9, Cocount Trees A, High Energy B. Low Energy , Reef (exposed) C. Hengroves F. Harshen I. Grases A. Yames Rects CHIP.

* Refer to StA IMENTAL INVENTION OF MORINE SHOWELINE ** Imman development of US» (See manual)

Tatal Shereline

3. Send
2. Nod
3. Send
3. Rects
4. Submerged Vegatation
5. Rects
6. Others
6. Others
7. Others
7. Others
8. Patch Rects
8. Others
8. Others
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9. Actio

TABLE 2A, MARINE HABITAT INVENTINCE OF BUTTOM TYPIS

V = POSTENT, BUT NOT QUANTISIED

BLAWK = CLURNOWN

HELITIC 25m (SIEMPHARE) | MITSEDE 25m (SEMAND) En? OF HABITAT ١ / 7 HARRICKE BOTTOM TYPES OF MARRAMAGO 1. Submerged Tegetation A. Fringing Reefs 9, Patch Reefs Reefs (Total) 17.118 lect: 6. Other 58M . T

TABLE ZA. MARINE MABITAT INVENTINEY OF BOTTOM TYPES

V = PRESENT, BUT NOT QUANTEIED

BLANK = LUKNOWN

THALE IN. MANINE MABITAL INVENTINY OF BATTON TYPES

V = DEESENT, BUT NOT QUANTIFIED

BLANK - UNKNOWN

BIRNK - UNKNOWN

STRIPE OF NOTE WAS ILES OF PRESENT. BUT NOT GUANTIFIED

1. SANA
2. Mad
3. Rects
4. Salantyed Vegatation
5. Rects (Total)
4. Fringing deefs
6. Patch Rects
7. Patch Rects
8. Patch Rects

TABLE 26. MALINE MAGITAL INVENTINEY OF BUTTON TYPES

STATE OF RIO SRANDE DO NORTH

	THE HABITAL	4AB LTAT
HARPTAT BOTTON TYPES	(SHOULD 25m (SHORIDANE)	(OHVERTOR SZW (SEWARE)
3, Send		
2. Hud	\	
J, flochs	/	>
4, Submerged Vegatation	/	7
5, Reefs (Total)	1	\
A. Fringing Reefs		
8, Patch Reefs	1	7
6. Other		

TABLE 2N. MARINE HABITAT INVENTIGAT OF BOTTOM TYPES

V = PRESENT, BUT NOT QUANTIFIED

BLANK - LINKHOWN

STATE OF ALAGOAS

		KM ² OF HABITAT	TABLTAT
	HARITAT BOTTON TYPES	THSTOE ZSM (SHOREWARD)	MISIDE 25m (SEMARO)
-	i, Sand	/	7
~;	2. Mud		
	3. Rocks		
	4. Submerged Vegetation		\ <u></u>
<u>.</u>	S. Reefs (Total)	/	/
	A. Fringing Reefs	/	
لــا	B, Patch Reefs	/	
÷	4. other BARNER REFERS		

TABLE 28. MARINE HABITAT INVENTMRY OF BIFTITH INFE

V = peesent, ait not quantifico. Beank = unknown.

252255 COLUMN SO SHINGS ALLES OF ANGELOS RESTING Species Abbreviations:
Chalons medas
Cheromochielys contaces
I ramprio 's levrices
I ramprio 's levrices
I 'clin' is ampl Species Abbreviations: Charles corrects (helicile myds Bermeckelys corfaces Eredencielys corfaces Lecidents a febricats Lecidents a febricats MAY - AUGUST DEC. - MARCH (VWRELIABLE) ! . الا SPITTS MESTING NOTE HILL COMMON SPICIFY VICTIVE (Use abbreviations)* * : 1 į METING BEACH ENVENTORY
List beaches in an praphic sequence.
Provide additional information on following page. 5 į 158574 14 69. LENGTH N EM. AND MOSTING AND BE EXPERIENTED STREAT CONTROLS
IN THE STATE
OF LARA NEVINO THEN ONEY THE WESTON HOST STRETCH (COLOUN) AT THE OF THE DOREN FOR THE FUTILE THERE ARE WELL RELATIVE SAFETY PHOPELINE IN OF SAND DUNES CRASSES REACHING UNIOR BAND BROFE WITHCEARA TATE OF PINUL BERCHES WITH NOST OF THE HAS SOME DRY TATE OF MEN THE CONST. MANE OF BEACH MANE OF BEACH TAMLE 3. TABLE 3, 85=125 CUTSTOC 25= (SEALARD) CATANANA OF ANAMANA NE STINIO DEC. - FEBR. 7 7 Em2 OF HABITAT THE FOR 254 (SHOPERAND) SPELIFS MESTERS (Mes)* MESTIMS BEACH INVENTIORY List beaches in mempraphic sequence. Provide additional information on following page. · ; ; V = PRESENT, BUT NOT QUANTIEIED FABLE 2A. MARINE HABITAT ENVENTINT OF BATTOM TYPES **¥**1: CONUS THEN SAND REEF HABITAT BOTTON TYPES MARRINAC ⋍⋷ OF SOWIA BARRIER BLANK - UNKNOWN THIS CEAST NUMBER AIR. NO BENCHES BERCHEY ACCOUNTS SEVERAL VILLAGES WESTING THEES RIVE HAVE MESTRIFE THERE PRE HAW Submerged Vegetation WERE VISITED. A. Fringing Reefs B. Patch Reefs MANE OF BEACH STATE OF Reefs (Total) MA 100 J. Rocks ₹... TANLE 3.

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GENERAL WITH				3. MARNENSHU			JAN MARCH
TOTAL BEACH				, ZUMBI		20 7.3	
. 200 KM				s, chigaen	i	E. £. 6.45 . 6.6.	
	-		į	ATEL DAS ANCAS		6.m. E.	DFC WARCH
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TABLE 3, MESTIMS BEACH INVE List beached in ge Provide additional	ENTORY Pographic seri	** A SELVADOR CLAYER OF CONTROL OF CALLY ON THE SERVANDER CALL OF THE SERVANDER CALL	Species Abbreviations;	TABLE 3, RESTING BEACH INV	entider ingraphic se	MESTING BEACH INVENTIONY List beaches in gengraphic genuence.	Species Mbb.eviations: Carpita carrita Calonia carrita
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SOUR DE DE DE	HI CHATH	SPECIES NESTING (Use abbreviations)*	CALACATA OF REGISTRES PRESTURES	roe se	ונאפנא	SPECIES MESTING	CREATIVE STATES
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TABLE 3. MESTING BEACH INVE	Ewigay eographic se l'information	2	Species Abbreviations: Service carella Chelonia mydes	PABLE 3, NESTIMS BEACH INVE List beaches in ge Provide additional	MTCAY Coyraphic seq Information	HESTIMG BEACH INVENTINY	Sectes Abbreviations: Careff careffa CC
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MESSIME BEACH INVENTION LISE BEACHES. List beaches in geographic sequence. Provide additional information on following bage. THEE 3.

250 255 Species dispensations: precise confidences (national modes) (not purchelys confidences (sectionally superces) (sectionally functionally functionally (and other in lys, not superces)

TABLE 7. FITTING APEAS HIPPFITTAN

Species Maherevistions for the same of the control of the long and as former half or entires a former of the long of the long

NO LUTERNOTION, BUT SHOULD BE PRACING PRES, DUE TO CONST SIMILARITY

NAME OF AREA [or give coordinates]	(Sort)	SPECIES FORMATING (Use informations approx. numbers)	MATURE OF EVIDENCE [Reservation, fishery, furidental catch]
STATE		55 53 55	INTERVENT.
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S. SEKOTO STATO		CA STEEL CO LO. WTCEWEN	INTERVENTY BARE.
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cour's TABLE 7.

OF JAELA Coordinates)	APPROTE AREA (SEAR)	(Use altireviations approx. numbers)	MATURE OF EVIDENCE (Observation, fitsbery, facidental catch)
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1,670 1,670 1,670	PLONG	22 22 Es	CASERVATION INTERVENS
77.72	:		NE INSTRUMENTAL BUT SPACE SE PROSENT BUT THE COST SIMILARITY
الاهزالاة و77 76 وه	,	CAN EL ES LA INTERNEN	INTERNEW RINE.
00110000000000000000000000000000000000	SONA 181	CM: E4 GC	/w/sewsw
FITNACTUS AREAS TINENTORY	HVE HTORY		Species Abbreviations: Carries caretts Calmin mydas Chelmin mydas Chelmin prodes

STATES OF CEARA-RIC CRANDE DE NESTE-POSITOS-PERIORED-ALACADE COURTNE DUT MONTHS DE CREATEST ACTIVITY MARCH - JULY BNKNOWN / 1 c 7 / . `, e `~ ~ 7 • -1 `. 2 <u>.</u> # 7 ~ 7 / ` æ 7 -> Ć, • Eretmochelys Impelcate derring Carette coretta dell' Chelenia mydas Array i i Lepidachelys oliveces Permochelys corleces Lepidochelys bent SPECIES

Digitic species monetain proteins, vieths, because complete some of these tables for each of the array identified in Table 2, figures next lable as enquerated in the 3 (221, 7-2, arr.). EMILE 11 -

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	SKA ZIL NAME OF PORT OR SITE	STOPTE OF COMP.	1. (rine in cental) 1. (rine in cental) 1.		7.	TANIT II, LANDING SITES
	COMENT	CHE SPECIMEN WAS SPECIMED BY WAS BLOWN ONCHARDED AS WELLESS. CHECKER SPECIMEN WAS ROBED WAS ONCE TO THE THE BOY IN FAM.	ACCULAR SIGNTINGS OF FURCONOUS.			'
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> FIGURIAL NOWALINGS. FROM MONGING METS

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(STATE OF CENER)

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IEM SPECIES	10112	1961	Inni	HETHING OF DETERMENATION	
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Evelowabelys impricate					
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Lepidochalys olivacen					

UNKROUN. TOTAL AMMINE THELE FAMILIES IS MANITER AND NELGHYS (N/Ry) Do mot Include turlies caught includes as in estar fishing operations (e.g., sheim; texaling), 1,000

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SIRIE OF PARA	SPECIES YEAR	Caratta coretta		Chelonia mydas	:	Bermochelys corleces		Cretmochelys imbricate	•	Lepidochelys kmpl		Lepidochelys olivaces

TABLE 13. ESTIMATED INCIDENTAL TURILE CATCH

ALL ARE LICOLLY CONSUMED. * APPLINENS CANOUT APP

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SKAZIL

	TYPE IN SISHING ACTIVITY & METHOD OF ESTIMATION	Cishwere	. =	FINANCIES - DE TO SOUCE DE L'ENTRE DE L'ENTR	This is not a mark to be a server when we are	FIGUREIA - C. C. DEING COUNTY DOT APRILY		KISHWEIRS					
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t socrete	KEE.	~ -\$		* * 1
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TOTALS FOR E.L. STATES	£ 5 5	6.45 6.65 2.79	23,410 8,300 5,106	11,799

*) weighed in hgs probably without hand, intestines, caremos and plastron.

		* E A MS				
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SPECIES					I .	FOR THE
TABLE 15. DEFICE	AL SARIS	OFFICIAL SATISTICS OF POTTLE PROMUCTION	سينة في معدد	`	FUR NE BRAZIT TOR 197	1976-1978.

Official Sidistics of immile manujurigation in the fighers.

	г	CCT AMBINE	
ACTIVITY	PPRESTORS	The H F.	L'Ansentat
Fishing			
Process ing			
Selling			

CFFICIAL FRANCY MITTO MITTON OF SCATIETIFF EXPLOSION. SINCE 1978 SEA TURTIES ARE FULLY PROTECTED BY LAW. MERETIRE, SINCE THRY YORR THERE SHULL BE NO TABLE 16. EMLOVINENT DEFENDENT ON TURILES

7/2038

THE THITTY OF DECAMINATION THE TAIL THE STATE OF DECAMINATION OF THE STATE OF THE			
35	TRETITUTION OR DRSANIZATION NOVE AND ADDRESS	NO. OF ACTIVE PENBERS	ACTIVITIES IN PRINCHESS
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MASSIVE MESTING OF CM

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Approx. 260 km & N. E. 1909 N. Kal, state of Riv drawds de Norde.

ATCL DAS ROCAS HAME AND LOCATION

7/2/18

REASON (4) FIRE PRINTECTION

MEA 142

TYPE AND EFFECTIVENESS OF ENFORCEMENT

MALLE AM PREVATE FISCH MITTING CONFERNEN YERA THIRTE COMPTOVATION/MANAGEMENT/MITTELFFINA

BRAZIL

HAME AND MUGNESS OF ORGANIZATION	BUDGET ALLMCATUM TO TUPILES	M. OF STAFF ANSTONIO TO THREES	COMERTS IN LEVELS OF ENFINCEMENT
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340F - SADENG - SUDEPE ARE ALL UNDER MIN. OF ACHEULTURE.

IMBLE 20. RECOLLATOR AUTHORITY SEALUTHRY responsibilities (m.m., ficheries Departments and Sadiosles all entitle with statutury responsibilities (m.m., ficheries Departments and Winiteries, Falles, Coard, etc.)

NAME AND NODRESS OF OPICANIZATION	BUDGET ALCCATION IN TURTLES	UN, OF STAFF ASSECUTO TO THERES	COMENTS IN LEVELS OF ENFINCEMENT
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SUCE PE (Superial traditions des Breadlancourse de Peres Passessa Ladre Prodencie 226 Bellin, Peres, EEP (G. C.)			THE REPORT OF THE PROPERTY OF

TABLE 19. SANCEINABLE AND BEFORE

TABLE 20. METHATORY ADTROCTED (Supplementary page)

A copy to attached with a copy of the translation (abhreviated) POSTAKIA Bo. 18, asked 29 Detabas 1976, provides mastrictions is the taking of one turtion for all of Brasil. tone by the Brayllian Brimery in Series.

any sea turile is Brusil. Although a copy of this Porteris was In 1978 a new FORCANGA was immed, prohibiting the taking of shows, so copy was made available.

FORTETTE DO N. 918 CT TO DE CUTUTOS DE 1976.

3 Superintendence de Superintendêncie do Desenvolvimer to de Pesco - SUDIFE, no mo dos athébusées que the são confe sidas pelo hat. 19, incise VII, de Decrete no 73.432, de 13 de feveraino de 1977, tendo em visto e disposte no ani. 33, 1 20, di Decreto-les no 111 de 11 de feveraino de 1967 e e que conste do processo no S/1200/73.

RESOLVE:

Ast. 10 - Proibir o capture de tentenuçai moriniet.

Profiso o Cuico - O disposto neste entigo não se esplico
de tantarupes das espécies <u>Chelonic mudas</u> e <u>Cenesta constia</u>, no
forme disciplinada mesta Pontania.

ARL. 29 - F paoibide a colneito de ovos de Instanugas resistas.

ARI. 34 - Reselvado o disposto no Tenforego Enico do eri. 19, são vedenos o desembanços, o Ineneporte, a comencialização ou a simples detenção de Internego mentima: : et ovos de quelques espécie detara quelônios.

Ast. 80 - E defeso molestan tartonuro maninur nos lo mais de reprodução.

AAE, 30 - I peoce de tantangas meninhas des espécites e mas dimensões a sequir distrimination à permitida, remoimente, no periodo de 10 de maio a 31 de novembre, exclusivamente e pesco dores artesanais.

T - Chelonic mydat - #1 cs

11 - Cancele concert - 70 ct.

Paragrafo Unico - la medidos a que se refere este antigo corresponder ao corprimente de carrece superior tomado, em Linhe acta, de extremidade de occió enterior è de bordo poste

ARE, 69 - la licençar perc o perce dos espécies permiti dos senão fornecidos, much e productor ente, peto SUPEDE, a per compres filados a cooperciarse ou colônio El percedente.

van 25 - 10 - 1976. (2rasilië)

No. 95

Ast Bo. 18 68 29-10-1976 F

le.forbiddes.lbs.otiskt.of.ote.furilts.

This determination does not apply to species such as <u>CEPLOBIA HTDAS</u> and <u>CARETTACA CARETTA</u>.

Is ferbidden the gathering of eggs of sea turtles.

Except for the precept under the exclusive paragraph from the 1² art, is forbidden the: landing, transport, constraintation, or the simple imprisonment of seaturtles and of eggs of any kind from these CHELCKIAKS.

le prohibited to barass sea turtles et reproduction

It is authorised hereby, the fishing of sea turtles of the species and diseasions discriminated as follow:

- a) Tearly from May, 12th till Bovember 50.
- b) Exclusively by skilled fighermen.
- e) CHELORIA MYDAS -80 cm. -CAMETTACA CARETTA - 70 cm.

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Panagnosi findos - la entaurile renelemente etaste antigo ansparando do assão replemal de ST ETE, reneabroute ou quanto pon este apiacatado, o himano dos continadaso top functos, segui do a espécie.

Int. 10 - les infectores de presente l'enterie serie : plicadas es pensidades previstes es ant. 56 de l'estate-le et 221, de 13 de fevereiro de 1.67, ser prejuite de suspensie, pelo pasto de me ano, des liconças concedidos.

ARZ, Pg. - Obrigon-se os contrativas e colômins do pescadanca a demincian os invigularidades practicados por some se sociedas, sob pena de senor excluídos durante ur enc., dos pene ficios deste Portaria.

141. 11 - Esto Pontèrio entre em vigor no dete d' auc ' publicação, revogadas es disposições en contrânio.

Innie Luit Chinants Superintendenie

(rublicede no liance Oficial de se de novembre de 1176).

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