THE NATIONAL REPORT EL REPORTE NACIONAL

FOR THE COUNTRY OF POR EL PAIS DE

BAHAMAS

NATIONAL REPRESENTATIVE / REPRESENTANTE NACIONAL

WENDELL CLARKE



Western Atlantic Turtle Symposium Simposio de Tortugas del Atlantico Occidental

17-22 July / Julio 1983 San José, Costa Rica Bahamas National Report, WATS I Vol 3, pages 30-35



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

NATIONAL REPORT FOR THE COUNTRY OF

BAHAMAS

NATIONAL REPORT PRESENTED BY

Wendell Clarke The National Representative

Address: <u>Department of Fisheries</u> <u>P.O. Box N-3028</u> <u>Nassau, Bahamas</u>

NATIONAL REPORT PREPARED BY

Colin Higgs

DATE SUBMITTED: <u>1 December 1982</u>

Please submit this NATIONAL REPORT no later than 1 December 1982 to:

IOC Assistant Secretary for IOCARIBE % UNDP, Apartado 4540 San José, Costa Rica

Bahamas National Report, WATS I Vol 3, pages 30-35





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.

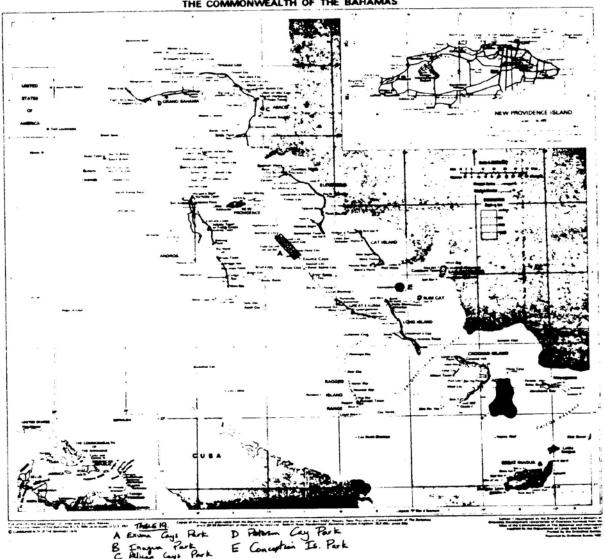
The proceedings document what was known at the time concerning the status and distribution of nesting and foraging habitat, population size and trend, mortality factors, official statistics on exploitation and trade, estimated incidental catch, employment dependent on turtles, mariculture operations, 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:

Higgs, C. 1984. <u>National Report for the Bahamas</u>, pp.30-35. *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. The Bahamas – W.A.T.S. National Report Study Area.¹



THE BAHAMAS THE COMMONWEALTH OF

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: BAHAMAS

* 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.

TABLE 7. FORAGING AREAS INVENTORY

Name of Area (or give coordinates)	Approx. Area (Km²)	Species Foraging (use abbreviations & approx. numbers)	Nature of Evidence (observation, fishery, incidental catch)
1. Bahama Banks	124,320	Cc, Cm, E	Observation and fishery
2. Surrounding oceanic waters		D	Observation
Species	Abbreviation	1	
Caretta caretta	Сс		
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		Month					Months of Greatest Activity						
	J	F	Μ	Α	Μ	J	J	Α	S	0	Ν	D	
Caretta caretta	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	April - July
Chelonia mydas	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	March - August
Dermochelys coriacea	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	
Eretmochelys imbricata	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	September - March
Lepidochelys kempi													
Lepidochelys olivacea													

TABLE 10. NATURAL MORTALITY

Life Stage Unit	Species (abbrev.)	Causes*	Extent of Mortality (% of unit)
Nests/eggs	Cc, Cm, E	Human poaching, crabs, vegetation roots, storm erosion	10 - 20
Hatchlings	Cc, Cm, E	Avian predators and marine predators	?
Juveniles	Cc, Cm, E	Commercial fishery and marine predators	50 - 60
Adults (in water)	Cc, Cm, E	Commercial fishery	20 - 30
Nesting females	Cc, Cm, E	Human poaching	?

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

* Natural mortality causes may include: Beach erosion of nests; egg and/or nestling predation by crabs, wild animals, seabirds, etc.; disease; sharks and other predators at sea, etc.

Name of Port or Site	Species Landed (use abbrev)	Fishing Gear Used	Months of Landings	Numbers & Weights (estimate)
1. Nassau N.P.	Cc, Cm, E	Turtle nets, spear guns	All year	19,000 kg ?
2. Abaco (central)	Cc, Cm, E	Turtle nets, spear guns	All year	200 kg ?
3. Moores Island	Cc, Cm, E	Turtle nets, spear guns	All year	3,500 kg ?
4. Andros (north)	Cm, E	Turtle nets, spear guns	All year	2,000 kg ?
5. Great Exuma	Cc, Cm, E	Nets, diving, spears	All year	250 kg ?
6. Grand Bahama (west)	Cc, Cm, E	Nets, diving, spears	All year	250 kg ?
7. Other inhabited islands	Cc, Cm, E	Nets, diving, spears	All year	Unknown; subsistence fishery ?
Species	Abbreviation			
Caretta caretta	Cc			
Chelonia mydas	Cm			
Dermochelys coriacea	D			
Eretmochelys imbricata	E			
Lepidochelys kempi	Lk			
Lepidochelys olivacea	Lo			

TABLE 11. LANDING SITES FOR TURTLES AND TURTLE PRODUCTS

* Closed season for Cc April - June inclusive

TABLE 12. TOTAL ANNUAL TURTLE LANDINGS IN NUMBERS

Species	1982*	1981	1980	Method of Determination
Caretta caretta	?/	?/	?/	Landing statistics
	7,183.7	9,166.5	5,514.8	
Chelonia mydas	?/	?/	?/	Landing statistics
-	12,346.1	9,154.2	4,006.3	-
Dermochelys coriacea				
Eretmochelys imbricata	?/	?/	?/	Landing statistics
-	3,856.4	7,887.6	19,769.4	-
epidochelys kempi				
epidochelys olivacea				
TOTAL				

TABLE 15.1. OFFICIAL STATISTICS OF TURTLE PRODUCTION: Species Caretta caretta

 Complete one of these tables for each species taken in the fishery.

Turtle Product	1982	1981	1980	Current Market Price/Unit	Method of Data Collection
No. of eggs					
Meat (kg)**	1436.7	1833.3	1103.0	US\$ 1.10/ kg	Landing statistics
Shell No./ Wt.					
Skins No./ Wt.					
Stuffed Juveniles					
* January-June 19	982				
** Assumed 20% to	otal turtle wei	aht is meat			

TABLE 15.2. OFFICIAL STATISTICS OF TURTLE PRODUCTION: Species Chelonia mydasComplete one of these tables for each species taken in the fishery.

Turtle Product	1982 [*]	1981	1980	Current Market Price/Unit	Method of Data Collection
No. of eggs					
Meat (kg)**	2469.2	1830.8	801.3	US\$ 2.20/ kg	Landing statistics
Shell No./ Wt.					
Skins No./ Wt.					
Stuffed Juveniles	?	?	?		
* January-June 198	B2				
** Assumed 20% to	tal turtle weig	ght is meat			

TABLE 15.3. OFFICIAL STATISTICS OF TURTLE PRODUCTION: Species Eretmochelys imbricata

Complete one of these tables for each species taken in the fishery.

1982	1981	1980	Current Market Price/Unit	Method of Data Collection
771.3	1,577.5	3,953.9	US\$ 2.20/ kg	Landing statistics
?/ 960.7	?	?/ 651.3	US\$ 44.00/ kg	Export returns
				· · ·
?	?	?		
?	?	?		
	771.3 ?/ 960.7 ?	771.3 1,577.5 ?/960.7 ? ?	771.3 1,577.5 3,953.9 ?/ 960.7 ? ?/ 651.3 ? ? ?	Market Price/Unit 771.3 1,577.5 3,953.9 US\$ 2.20/ kg ?/ 960.7 ? ?/ 651.3 US\$ 44.00/ kg ? ? ? ?

** Assumed 20% total turtle weight is meat

TABLE 16. EMPLOYMENT DEPENDENT ON TURTLES

Activity	Total Annual Numbers of Persons	Est. Annual Income From Turtles	Comments
Fishing	None	NA	No fishing effort directed exclusively at turtles. Turtles caught are associated with multiple fishery, i.e., fishing for lobster and scalefish.
Processing	None		Turtle landings are not substantial. Account for approximately 1.0% of total marine products landed. Processed and sold local local market.
Selling	None		No vendors deal exclusively in turtle.

TABLE 18. PUBLIC AND PRIVATE INSTITUTIONS CONCERNED WITH TURTLE CONSERVATION/ MANAGEMENT / UTILIZATION

Institution or Organization Name And Address	No. of Active Members	Activities in Progress
Bahamas National Trust	?	Public education Assists Caribbean Conservation Corporation with project concerned with turtle growth rates from infancy to maturity.
Caribbean Conservation Corporation	?	Growth of green turtles under quasi-natural conditions.
Department of Fisheries Ministry of Agriculture, Fisheries and Local Government	20	Public education concerning local sea turtle regulations. Collection of statistical data.

TABLE 19. SANCTUARIES AND REFUGES

Name and Location	Area Km ²	Reason(s) for Protection	Type and Effectiveness of Enforcement
Exuma Cays Land and Sea Park, Exuma	455.8	Protect from development and protection of marine resources	1 warden Enforcement fair
Inagua Park, Great Inagua	743.3	Protection of wildlife especially flamingo and Bahama parrot. Site of Turtle research project	2 wardens Enforcement fair
Pelican Cays Land and Sea Park, Abaco	?	Protection of plant and bird life and coral reefs	No enforcement
Conception Island Park	?	Protection of migratory & other birds; nesting beaches for green turtles	No enforcement
Peterson Cay Park Grand Bahama	?	Protection of natural flora and fauna	No enforcement

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 Allocation to Turtles	No. of Staff Assigned to Turtles	Comments on Levels of Enforcement
Department of Fisheries	0	9	Effective at primary landing sites where fisheries inspectors are present. Not assigned specifically to turtles but all marine resources.
Police Department	0	0	
Defence Force	0	0	

TABLE 20A. REGULATORY AUTHORITY (Supplementary page)

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

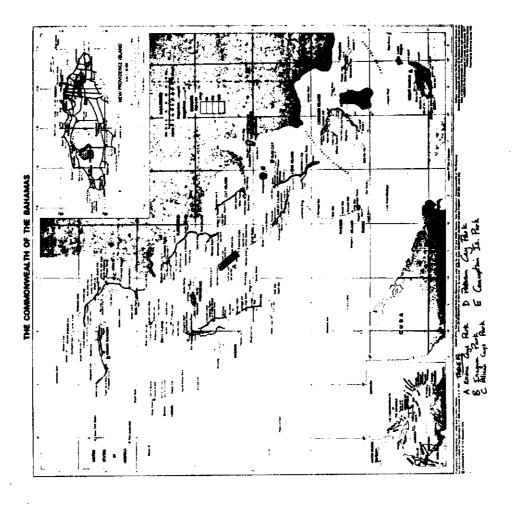
1. Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES). The Bahamas is a signatory to CITES. Ministry of Agriculture, Fisheries and Local Government is the Management Authority. The Bahamas National Trust is the Scientific Authority.

- 2. Local Legislation The Marine Products (Fisheries) Rules (1954)
- (i) Min. size of E (*Eretmochelys imbricata*) of 17" (431.8 mm*) from neck scales tail pieces.
- (ii) Min. size of Cm (Chelonia mydas) of 15" (381 mm*) from neck scales tail pieces.
- (iii) Closed season of Cc (Caretta caretta) 01 April 30 June inclusive.
- (iv) Protection of turtles on the beach.
- (v) Protection of turtle eggs.
- 3. Legislation in draft
- (i) Min. size limits for Cc (Caretta caretta*) and Cm (Chelonia mydas) of 30" (762 mm*).
- (ii) Complete protection of E (*Eretmochelys imbricata*) and closed season for other turtles April July inclusive.
- (iii) Prohibit capture of turtles within 500 yds (457.2 m*) of any beach.
- (iv) Protection of turtle eggs.

Editor's note (2009): * Metric conversions inserted by Editor

	NESTERNATLANTIC TUPTLE SAMPOSIUM San Jose, Coste Kica July 1983 ¹⁸	NATIONAL REPORT FOR THE COUNTRY OF The Batarias National Report Presented By	Wendell Clarke he National Representative Address: Department of Fisheries F.O.Box N-3026 Kessu, Eshares	MATIOMAL REPORT PREPARED BY Colta Biggs	DATÉ SUBMITTED: 1 Dec. 1982	! Please submit this MATIONAL REPORT no later than 1 December 1982 to: IOC Assistant Secretary for IOCARIBE, S UNDP, Apartado 4540, San Jose, Costa Rice.
THE NATIONAL REPORT EL REPORTE NACIONAL	FOR THE COUNTRY DE		NATIONAL REPRESENTATIVE/REPRESENTANTE NACIONAL	WENDELL CLARKE	W. A. T. S. Western Atlantic Turtle Symposium Simposio de Tortugas del Atlantico Occidental	S. T. A. O. 17-22 July/Julio 1983 San Jose, Costa Rica

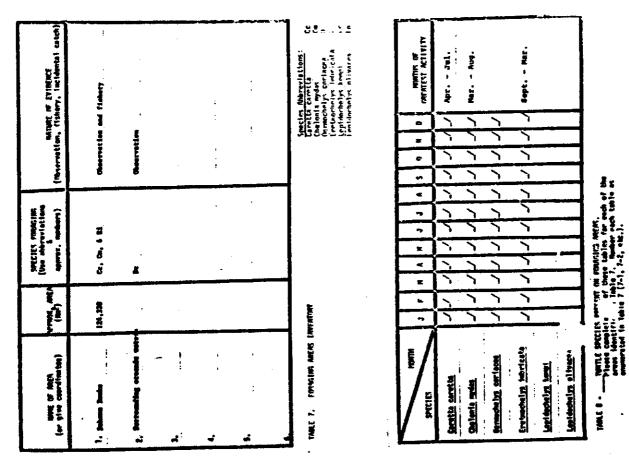
•



Country The Bahawas	
Langth of Coastline*	<u>.</u>
Am ² of Continental Shelf Area	• • • 12 <u>4,320</u> Km
Seement Extent of Jurisdictions:	
Territorial See	• • • • <u>• • •</u> •
Extended Economic Zone	• • • • <u>321.8</u> Km
Pisherias Jarisdictian	<u>321.8</u> @-
Other (Duscribe)	_ · · · . <u></u> %•
TAULE 1. GEOGRAPHIC INVENTORY	

•

 Constline length is the measurement of the national staterd boundary of a asumtry; i.e., the distance from border to border for a constal ementry and the distance around an island country.



		TEARS			
THERE PRIME	•	1941	Ĩ	Price/Welt	METHONS OF BATA CALLECTION
***	•	•	•		
		1	:	1	
	1.11	1.001	C.108	PAN. 194	Landing Statistics
8611 86.01	•	, i	•		
ar Ar	• 1		•		
Starfed Arrentles	~	•	•	1	
Other					
8 11346				+	+ Jan - Oct., 1982
				? 	Americand 200 total turtle weight is ment

		TEANS			
THERE MONCE	* 3 6(IDEL	1986 1	Price/Vinite	
					NUT THE DATE OF THE CALLER
1	•	•	1		
	i 	:	:	1	
mee (la)	<i></i>	1577.5	9,6546	PANE. SHOW	Landing Shatistics
		!	ļ		
	7940. 7	•	1.124	UNITAL INDAN	Berrt, returns
	÷		1		
Stim the / Vic.	,		÷		
	I	i	•		
Staffed Jeveniles	~	P-	~	~	
			l Ì		
Other Jevalery	~	2	~	~	
SMELIN	2				+ 185 - 1941. 1883 - 1941.
				:	

" Amanged 201 of total turn)	In the fishery.
	CTICM ch species taken
	LE 15OFFICIAL STATISTICS OF TURILE PADOUCTION Complete one of Unese tables for each species taken in the fishery.
	India 15 Official

ACTIVITY	SHOESICAT VILLAN MILMICLAS TRANSPORT	EST, ANNUAL INCOME TRINK TURTLES	COMENCE
Flaking	Į.		In finiting effort directed enclusively at turing, further county are energiated with multiple finery i.e. finiting effort for idnets and scalefiels.
Precessing	-		Turthe landings are not substantial. Actual for approx. 1.06 of 4-tal parime products landed. Processed and sold local motion.
Setting	e i		to vertice deal exclusion!) in turtle.

TUMES
Ē
DEPENNENT
ź
THE

ACTIVITIES IN MNAMESS	Philic education Amateric Caribban Conservation Chapterium with project concerned with burtle growth rates from Milany to maturity.	Growth of green turtles under quest-matural conditions.	Public education concerning local see turtle requisitors. Collection of statistical data.	· · · ·	
ND. OF ACTIVE ACTIVE	~	<u>58</u>			
INTITATION ON CARAMIZATION News: AND NOORESS	between Incident, Struct	Circlibres Conserve Lian Corporeitin	Construct of Fisherlas, Malatry of Apriloutures, Fisherlas & Jocal Constructs		

THELE 19. MULLIC AND PRIVATE EXCITIVITIONS CONCERNED WITH TWITLE CONCERNATION/MUNACEMENT/UTIELIZATION

.

3-34

LIFE STORE WILL	SPECIER			Carres*	EXTENT OF MMMTALLITY	MARE OF PORT IN SITE		sprcies Launen Bue abhrew)	Salas L	FICHING GENN USED	Langues of	APPREIS A VEIGHTS
fin ta/rear	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Nam poshiny. Ates studion	achim, cru ailen	cratiu, vegetation roote,	10 - 20	F. Hanna H.S.	៥០ីដ ៥		Nota, diviny, speca	1	MI IN	7 19000 Ma
	មិទិដ		distors and	Arian predators and earlie predators	- - -	2. Abaco (cuntral	10286				• •	
	88		ul Cluttery 4	commercial fishery and marine produces	50 - 60	3. Postere Island 4. Andres (north)	ដ ខេត្		•	•	•	2000 km
Amilts (in witer)	1 8 ê i	T	domanda) fi derry		R 1 R		18 6 2881		•••		• •	7 250 kg 7 2500 kg
	ងខ្មែន	Rumme possibility	echiling		-				•		•	? underson sul set scance (Lathery
ļ		-			Γ		F	Service	-			
Succession of the second		1961	Tent	NETHING IN DETENTIANTION				\vdash	TOPACET MARKET Trice/Init		METHINGS OF DATA CALLECTION	ערנכנוש
Carette corrette	~	6 1755/2 5"9916/2 TOT/2	6.91252/5 E.J	Landing Bentlation	jaan, 204 . A	╧		╈				
			1	•			• i					1
				من مربر ب		- (<i>f</i> a)		011 C.CC01	64/01'1997' 0'COTT	Any Landling Statistics	tistics.	•
Demachelys carlaca						11 mil	•		•			:
Erytendielyn, Mehrikata		7/3056.4 PT007.6 219769	1.6719769.	•		Strine Ne./Nt.	• 1	, i		, ,	1	
Leidenin, traj	1					Stuffed Jeveniles	•		• ,			
Leidenin ellen												

* Assumed 20% total turtle weight is mont.

+ Jan - Oct., 1982

8

SPECIES -

THMLE 12. TOTAL NUMBAL THATLE LANDIANS IN ANABERT AND METGHTS (N/Kg) Do not include threfton comput inclanatal to other fishing operations (e.g., shring traviling). • Jons - Otta, 1982

3-33

. . . .

HOLLINZ LINNAND DO SCILLARY MAY ZHAN	NUMART ALLINCUTION TO TUNTLES	M. OF STAFF SSIGNED TO THENES	COMPOSITS ON LEVELS OF ENTINE ENERT
Opertment of Fisharies	-	•	Effective at primery lending also viere flaberies impectes: are present. Not assigned specifi- cally to turine but to all murine resources.
Police Department	0	•	
Defence Porce	•	; ; © 1	
raut a. Real Atom Armonty Indicets all anticia v Nationaria, folice, co			NCM ATMY ATMONETY Molecto all mettices with statebury respensibilities (e.g., fisheries Departments and Ministeries, Police, Coust Smard, etc.)

HE WE NOTICE	200 KBW	addar (s) far ministrion	TYPE AND EFFECTIVENESS OF ENFINCENENT
5	423.0	Protect. From development. and protection of device remources	1 Mardan Poloccamant Pair
timps hat	t.th	Protection of wikilite emperially finding and Names perrot. Bits of Turtle remerch project.	2 Nardana Pullorcoment Eals
Nilcon Cay Land and Ber Pert		Protection of plant and bird life and coral reefs.	to enforcement
Conception telend Parts	••	Protection of signatury and other bits and methy beaches for green turiles	a aitarta
Presson Cay Mark	•	Protection of material flow and faum	the entropy of the
والمعتبة بالإخاذة والمتحد والمتحد والمحاد			

REGULATORY AUTHORETY (Supplementary mage) TABLE 20.

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

Convention on International Trade in EnGangered Species of Mild Teuna and Flora (CITES) 1.

The Bahamas is a signatory to CITES. Ministry of Agriculture,

Fisheries and Local Government is the Management Authority. The

Bahamas Mational Trust is the Scientific Authority.

2. Local Legislation

The Marine Products (Fisheries) Rules (1954)

- (i) Min. size limit for Ei of 17" from neck scales tail pieces
- an • * * Cas of 15* * * • .
- (iii) Closed sesson for Cc 1 April 30 June inclusive.
- (iv) Protection of turtles on the beach.
- (v) Protection of turtle eggs.
- 3. Legislation in draft
 - (i) Min. size limits for Cc and Cm of 30".
 - (ii) Complete protection of Ei and closed sesson for other turtles Apr - Jul. inclusive.
 - (iii) Prohibit capture of turtles within 500 yds of any beach.
 - (iv) Protection of turtle eggs.

SANCTURATES MID REPORTS

TABLE 19.