### THE NATIONAL REPORT EL REPORTE NACIONAL

FOR THE COUNTRY OF POR EL PAIS DE

### **BERMUDA**

NATIONAL REPRESENTATIVE / REPRESENTANTE NACIONAL

### **JAMES BURNETT-HERKES**



Western Atlantic Turtle Symposium Simposio de Tortugas del Atlantico Occidental

17-22 July / Julio 1983 San José, Costa Rica Bermuda National Report, WATS I Vol 3, pages 49-54



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

### NATIONAL REPORT FOR THE COUNTRY OF

### **BERMUDA**

NATIONAL REPORT PRESENTED BY

### **Dr. James Burnett-Herkes**

The National Representative

Address:

<u>Department of Agriculture and Fisheries</u>

<u>P.O. Box 834</u>

<u>Hamilton, Bermuda</u>

NATIONAL REPORT PREPARED BY

James Burnett-Herkes

DATE SUBMITTED: 15 May 1983

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

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





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 <a href="http://www.widecast.org/What/RegionalPrograms.html">http://www.widecast.org/What/RegionalPrograms.html</a>.

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:

Burnett-Herkes, J.1984. <u>National Report for Bermuda</u>, pp.49-54. *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

### COUNTRY: BERMUDA

183 Km**
871 Km***
5.5 Km***
None
366 Km****
None

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.

<sup>\*\*\*\* 3</sup> nautical miles from baselines. (See chart)
\*\*\*\*\* 200 nautical miles from baselines and territorial sea

			Km of Shoreline		
٨	Marine Shoreline Characteristics*	Undeveloped	Developed**	Total	
1. San	d Beach (Total)	1.5	10.0	11.5	
A. F	ligh Energy	1.5	6.5		8.0
B. L	ow Energy		3.5		3.5
2. Ree	ef (exposed)				
3. Roc	eks	30.0	108.5	138.5	
4. Cliff	·s	15.0	15.0	30.0	
5. Veg	etation (Total)	1.5		1.5	
A. \	/ines				
В. С	Grasses				
C. N	Mangroves	1.5			1.5
D. (	Coconut Trees				
E. C	Other Trees or Shrubs				
F. N	Marshes				
6. Mou	uths of lagoons, rivers, canals				
7. Tota	al Shoreline	48.0***	133.5	181.5***	+

<sup>\*\* 100</sup> nautical miles (approximately)\*\*\* 260 square nautical miles

<sup>\*</sup> Refer to Sea Turtle Manual (Aerial Survey)\*\* Human development or use (See MANUAL)

<sup>\*\*\*</sup> Editor's note (2009): Totals corrected from original to reflect accuracy in summed values

TABLE 2A. MARINE HABITAT INVENTORY OF BOTTOM TYPES (Supplementary page)

Habitat Bottom Types	Km <sup>2</sup>	of Habitat
	Inside 25m (shoreward)	Outside 25m (shoreward)
1. Sand	3	90.0
2. Mud	0.2	5.0
3. Rocks	0.75	3.0
4. Submerged Vegetation	0.6	90.0
5. Reefs (Total)	0.2	188.0
A. Fringing Reefs		17.0
B. Patch Reefs	0.2	70.0
6. Other: Coral & Rocks, vegetation mixed		101.0

### **TABLE 3A. NESTING BEACH INVENTORY (Supplementary page)**

Please give additional information about each nesting beach identified in Table 3. Include information on color of sand, particle size, beach profile, backbeach vegetation, artificial lighting, etc.

Two beaches used for egg transplant experiments in undeveloped high energy areas (see "N" on chart) have powdery white sand (approximately 1mm grain size). Beaches slope to low dunes (1.5-2 meters above H.W.M). Vegetation consists mainly of seaside morning glory (*Ipomoea pes-caprae*) and West Indian crabgrass (*Eustachys petraea*). Artificial lights near one beach only. These extinguished during hatching approximately 6.5 km of beaches suitable for nesting.

TABLE 7. FORAGING	AREAS INVENTOR	RY	
Name of Area (or give coordinates)	Approx. Area (Km²)	Species Foraging (use abbreviations & approx. numbers)	Nature of Evidence (observation, fishery, incidental catch)
1. Bermuda Islands	871	Cm, > 1,000	Capture/tag/release studies. Observations and reports. From fishermen and boatmen observations and reports.
2. Bermuda Islands	871	Cc, >100	From fishermen and boatmen observations and reports.
3. Bermuda Islands	871	E, >50	From fishermen and observations and reports.
4. Offshore Bermuda Islands	7,850	D, < 5	From fishermen; occasionally caught in nets, etc.
Species	Abbreviation		
Caretta caretta	Сс		
Chelonia mydas	Cm		
Dermochelys coriacea	D		
Eretmochelys imbricata			
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						Mor	nth						Months of Greatest Activity
	J	F	М	Α	М	J	J	Α	S	0	N	D	
Caretta caretta	H*, J	H, J	H, J	J	J	J	J	J	J	H, J	H, J	H, J	H - in sargassum J - most common June - October, present all year
Chelonia mydas	J	J	J	J	J	J	J	J	J	J	J	J	May-October
Dermochelys coriacea					A, J	A, J	A, J	A, J	A, J	A, J			Occasionally seen offshore, May-October
Eretmochelys imbricata	J	J	J	J	J	J	J	J	J	J	J	J	Stressed animals found in winter months
Lepidochelys kempi													
Lepidochelys olivacea													
* H = hatchlings, J =	juveni	les, /	\ 4 = a	dults	<u> </u>								

Life Stage Unit	Species (Abbrev		Extent of Mortality (% of Unit)
Nests/eggs			,
Hatchlings	Сс	Disease possibly, or water temperature too low	5
Juveniles	E Cc Cm	Disease possibly, or water temperature too low Disease possibly, or water temperature too low Disease possibly, or water temperature too low + boat propellers	< 5
Adults (in water)	D	Disease possibly, or floating pieces of net (cargo, fishing, etc.) hoops, etc.	less than 5
Nesting females			
Species	Al	obreviation	
Caretta caretta	C	}	
Chelonia mydas	Cı	n	
Dermochelys coriace	ea D		
Eretmochelys imbrica	ata E		
Lepidochelys kempi	Lk		
Lepidochelys olivace	a Lo		

crabs, wild animals, seabirds, etc.; disease; sharks and other predators at sea, etc.

### TABLE 10A. NATURAL MORTALITY (Supplementary page for additional biological data)

Please report below, and on additional pages, if necessary, additional data obtained or available such as measurements (length, width, weight) of adult females, adult males, hatchlings, numbers of eggs per nest, hours of nesting, hours and conditions of hatchlings, etc.

Collection of such data has only just begun. Studies of diseases also just commenced and will be reported by years end.

### **TABLE 17. TURTLE MARICULTURE OPERATIONS. 1981**

This table quantifies activities concerned with turtle culture for either conservation, population enhancement experiments, or commercial use. Activities to be included are "headstarting", re-nesting, incubation and release, etc. Prepare separate table for each year of available data.

Species		F	latchery Ope	erations		Hol	ding Live 1	Turtles
	Eggs Collect.	Eggs Hatch	No. Release	Age at Release	No. Retain	No. Juvs.	Adult Female	Adult Male
Caretta caretta	42	5	5	emergence			1	1
Chelonia mydas (Devil's Hole) (imported)	105 3048 *	51 346	42 346	emergence emergence	9		2	1
Dermochelys coriacea								
Eretmochelys imbricata								
Lepidochelys kempi								
Lepidochelys olivacea								

<sup>\*</sup> Eggs from Suriname; shipped to Bermuda via air freight on commercial flight.

### TABLE 17A. TURTLE MARICULTURE OPERATIONS (Supplementary page)

Between 1967-1977, just over 17,000 green turtle (Cm) eggs were transplanted to Bermuda from Costa Rica. From these 10,000 hatchlings were released from incubation beaches (see chart "N") and 450 were retained for 2 years to headstart, tag and release.

It is anticipated that this practice might continue in the future. In 1976, turtles in a natural pond (sink hole) "Devil's Hole" tourist attraction laid three clutches totaling 252 eggs. Although most were fertile, none hatched because of shade over site and rains.

TABLE 18. PUBLIC AND PRIVATE INSTIT CONSERVATION/MANAGEMENT/UTILIZA		ERNED WITH TURTLE
Institution or Organization Name and Address	No. of Active Members	Activities in Progress
Department of Agriculture and Fisheries P.O. Box 834, Hamilton, Bermuda includes Division of Fisheries, Bermuda Aquarium, Museum, Zoo, Conservation Division	6	Tagging, release wild caught turtles Egg transplant - population enhancement Captive breeding Disease studies

TABLE 19. SANCTU	ARIES AND	REFUGES	
Name and Location	Area Km <sup>2</sup>	Reason(s)f Protection	Type and Effectiveness of Enforcement
Bermuda's EFZ extending 183 km from baseline	456,095	All marine turtles considered threatened / endangered in west Atlantic. Also attempting to re-establish breeding pops.	Fisheries Act / regulations. Wardens and marine police. Public and fishermen cooperate

Coast Guard, etc.)			ies Departments and Ministries, Police,
Name and Address of Organization	Budget Allocation to Turtles	No. of Staff Assigned to Turtles	Comments on Levels of Enforcement
Government Agriculture and Fisheries P.O. Box 834 Hamilton, Bermuda	US \$ 54,000	2-4	Enforcement of all fisheries regulations
Bermuda Police Prospect Devonshire Bermuda (the Commissioner)	N/A	8	Enforcement of all fisheries regulations and other marine legislation (e.g., safety, boat licences; marine section of police)

### **TABLE 20A. REGULATORY AUTHORITY (Supplementary page)**

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

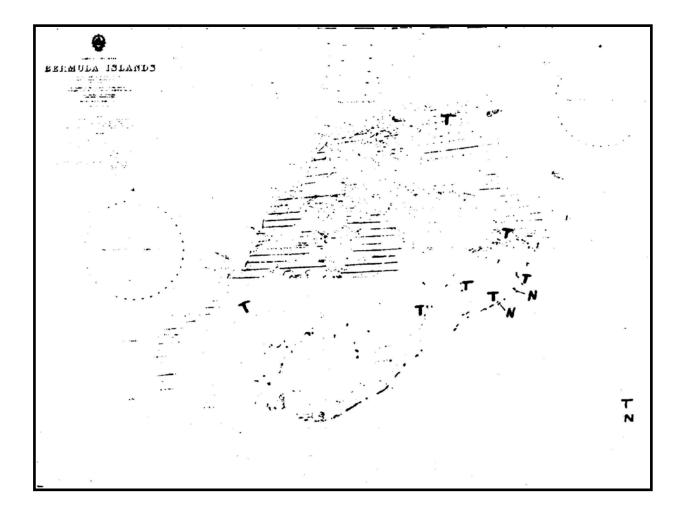
Under Fisheries Act 1972, the "Fisheries (Protected Species) Order, 1978" prohibits the taking of any marine turtle. "Fisheries Regulations 1972" prohibit the taking or attempted taking of a nesting turtle (copies enclosed).

TABLE 21. NATIONAL RESEARCH P List turtle research activities funded with			
Project Title	Da	ate	Name and Address of Institution & Chief
	Start	End	Investigator
Re-establishment of green turtle nesting rookery at Bermuda	1966	Cont'd.	Department of Agriculture and Fisheries P.O. Box 834, Hamilton Dr. B.D. Wingate
Studies of Populations of Bermuda Turtles	1968	Cont'd.	Department of Agriculture & Fisheries P.O. Box 834 Hamilton, Bermuda Dr. J. Burnett-Herkes
Diseases of Wild and Captive Marine Turtles in Bermuda	1982	Cont'd.	Department of Agriculture & Fisheries P.O. Box 834 Hamilton, Bermuda Mr. T. Rand

### **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).

- Burnett-Herkes, J. 1974. Returns of green sea turtles (*C. mydas*) tagged at Bermuda. Biological Conservation 6(6): 307-308.
- Frick, J. 1976. Orientation and behavior of hatchling green turtles (*C. mydas*) in the sea. Animal Behaviour 24(4): 849-857.
- Ireland, L. C. 1979. Homing behavior of juvenile green turtles, *C. mydas*. <u>In</u> Amlaner, C.J., Jr. and D.W. Macdonald (eds.). 1980. A Handbook on Biotelemetry and Radio Tracking. Pergamon Press, New York.



**Figure 1.** Bermuda – W.A.T.S. National Report Study Area.<sup>1</sup>

Bermuda National Report, WATS I Vol 3, pages 49-54

<sup>&</sup>lt;sup>1</sup> 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.

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## BERMUDA



NATIONAL REPRÉSENTATIVE/REPRESEN

JAMES BURNETT-HER



Simposio de Tortugas de! Atlantico Occidental Western Atlantic Turtle Symposium



MESTERN ATLANTIC TURTLE SYMPOSIUM

San Jose, Costa Rica July 1983 MATICHAL REPORT FOR THE COUNTRY OF

BERMUM

NATIONAL REPORT PRESENTED BY

De. James Bulnistings

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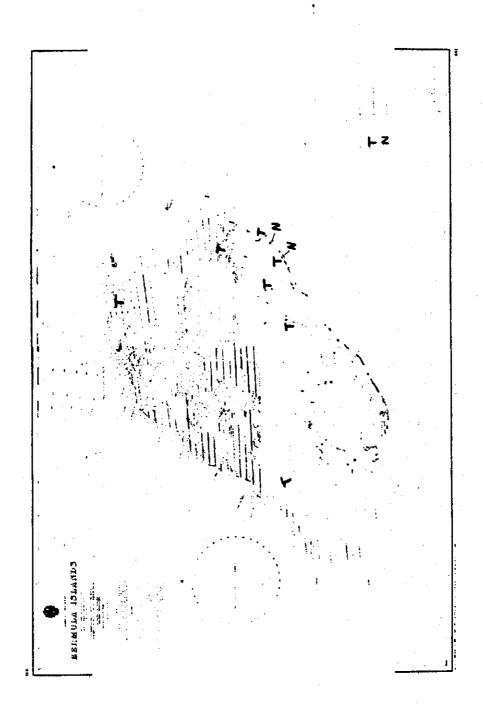
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NATIONAL REPORT PREPARED BY

JAMOS BURNOTT-HORKES

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4. Schmerged Vagetation	9.0	40.0
5, Neefs (Total)	2.4	C. K& 7
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8. Loy Energy	١	. W	3.51
2. Reef (exposed)	١		\
3. Nocks	30.5	7.80/	700
4. CINTA	بي.	6. 5/	200
5. Vegetation (Total)		; /	) la
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7. Total Shøreline	24.5	133.5	173 [

\* Refer to SEA TURNIE WARRING GO MARINE SHORELINE \*\* Namen development or use (See Marini.)

### THRLE 3, RESTING BESON LONGITURY (Supplementary page)

Please give edititional information about each matting basch identified in Table 3. Include information on calor of send, partitle size, beach prefile, betheach repotation, artificial lighting, etc.

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Species Abbreviations: Garetta caretta Chelonia sur cortagos Termochelye dorifeata Ignidochelye infritata Enidochelye niivasce

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TABLE 10. NATURAL PURTALITY

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Collection of such date has only just bogun Please report below, and an additional bases if meastery, additional data abilities or available such as measurements (longh), within, within 10 of built (mails, adult males, http://dgs, numbers of agas per nest, bears of matting, haurs and conditions of batchling, alc. GRIDIAL MENTALITY (Supplementary page for edditional biological data) TABLE 10.

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TABLE 18, PUBLIC AND PRIVATE INSTITUTIONS CONCERNED WITH TURILE CHIRCPURTUM/PARAMEGRAENTAITILIZATION

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TABLE 19. SANCTUARIES AND REPURES

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THALE 21. MATIONAL MESENACH PROJECTS List tartle presenth activities funded within your country.

EXPORTS AND PUBLICATIONS
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