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11015/1b Sea Turtles

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Poole

SEA TURTLE INVENTORY

for

SUMMER AND FALL 1984

NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION

ASSISTANT CHIEF OF STAFF, FACILITIES

MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA 28542

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ADVISOR, INSTITUTE OF
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MOREHEAD CITY, NORTH CAROLINA

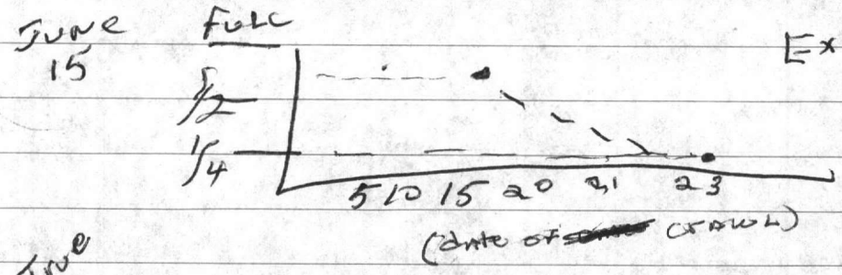
Beach map missing
Locations of
FC & crawls
missing.
From this
map - 1984

Charles
said
use aerial survey
instead 9-5-85

instructions

1.) Full moon Graph =

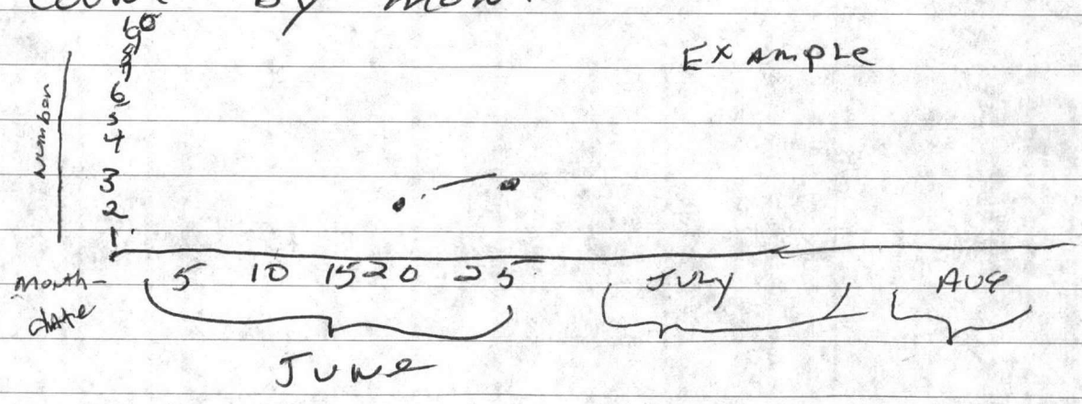
Date - how full moon



Example

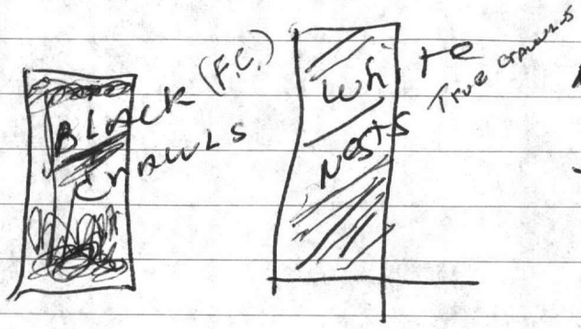
2. no. True crawls

count by month



Example

✓ 3.)



crawls & False crawls

Number of FC + Nests True crawls

✓ 4.) Aerial Survey -

NC (new)	OC (old)	New Nests	Old Nests	NP (New predator)	OP old predator
6-14-84 5	2	5	2	1	Weather Data

Green turtle

Data in Log

Same one (Green turtle) (5) Times

017 1st time 6-25-85 AAR 145 & 146 163 eggs

034 2nd " 7-6-85 11 " 199 eggs

054 3rd " 7-17-85 MIS 649 194

067 TOTALS See File copy Beach 7-29-85 1st Time seen way out on flipper one Broken

Survey Tag # 36 (?) 646 total eggs

4 -
5 -

✓ 5.)

Plot crawls (FC) & nests (C) true on onslow

Beach map - distances (use specialy marked ruler)

6.) Tagging data Nesting Turtles - Returns -

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10-10-95

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INTRODUCTION

The sea turtle inventory for 1984 is a continuation of past efforts by Natural Resources and Environmental Affairs Division, Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune, North Carolina, to protect sea turtle nesting activities at Onslow Beach. The sea turtle inventory consists of several programs including: nest protection, tagging of adult turtles, collecting nesting data, determining hatchling success and aerial surveys.

Management personnel began operating under a Federal Fish and Wildlife Permit during 1981, issued for working with threatened Loggerhead and Green Turtles. The permit authorizes the tagging and measurement of adults and the relocation of nests threatened by erosion, tides, extreme predation or military training activities. Nests may be moved only within 24 hours of egg laying to a safe beach location and not to a laboratory. Relocated nests are required to be monitored and hatchling success documented.

The results of the aforementioned program are as follows:

a. Nest protection from predators, 63.

b. Tagging of adults - number of turtles tagged 26.

Tag return data may be reviewed in Table II, page 9.

c. Nesting data - Number of nests - 63.

d. Total number of crawls - 121.

e. Total number of eggs - 7,788.

f. Total number of hatchlings - 4,484.

G. Number of tag returns - 30 .

H. Number of stranded turtles - 4 .

I. Number of nests lost during Hurricane Diana - 2 .

J. Number of nests lost during abnormal high tides associated with northeast winds - 6 .

K. Number unhatched nests from unknown causes 5 .

Stranding reports were submitted to the North Carolina Wildlife Resources Stranding Network Coordinator. Carcasses were buried on the beach.

Percent hatchling success is 57% ; nesting and crawl data is compiled in Tables I, II, III, IV, and V, and Graphs I and II on pages 5 through 19 . The enclosed maps indicate locations of turtle activity on Onslow Beach.

Aerial survey data may be found in Table IV, page 20 .

The Marine Corps Base, Camp Lejeune and Natural Resources and Environmental Affairs Division give special thanks to Doctor F. J. Schwartz at the Institute of Marine Science, Morehead City for his advice and services.

For copies of this report or other information concerning the sea turtle management program conducted by this agency, contact: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina 28542 Attention: Director, Natural Resources and Environmental Affairs Division, Assistant Chief of Staff, Facilities.

SEA TURTLE INVENTORY
(Crawl Data)
TABLE I
Marine Corps Base
Camp Lejeune, North Carolina

C.O. indicates crawl only

wl .	Date	Time Crawl Occurred	Active Nest	Location*	Comments
1	5-23-8-	0800-1130		-7N	C.O. (indicates Crawl Only
2	5-2--8-	0200	X	2.4S	Relocated to dunes 4 yds up. 143 eggs.
3	6--4-84	0900-1030	X	2.4S	Relocated to dunes 4 yds up. 13 yds.S. 133 eggs.
4	6-4-84	2100-0500		3.1N	C.O.
5	6-7-8-	0300	X	2.5S	Relocated from .5S up 3 yds. 148 eggs.
6	6-8-8-	2100-0500		3.4N	C.O.
7	6-9-8-	2300	X	2.8S	Eggs 71 Tags AAR087, 088
8	6-9-8-	0248	X	2.9N	Tags AAR 089, 090 Eggs 61
9	6-9-8-	2100-2300		6S	C.O.
0	6-11-84	2100-0500		2.9S	C.O.
1	6-11-84	2100-0500		2.0N	C.O.
2	6-12-8-	2230	X	2.8S	Rel. from .8S. Tags AAR 091, 092. Eggs 115
3	6-12-84	0030	X	3.1N	Eggs 137 Tags AAR 093, 094
4	6-12-84	2100-0500		3.4S	Tags AAR 095, 096
5	6-13-84	1300-1530		3.1S	C.O.
6	6-13-84	2100-0500		3.3N	C.O.
7	6-13-84	2230	X	3.3N	Tags AAR 097, 098 Eggs 155
8	6-13-84	2400	X	2.6S	Rel.From 3.S. Return AAR 095, 096. Eggs 98
9	6-13-84	2100-0500		.8S	C.O.
0	6-15-84	0010		1.25S	Tag AAR 099, 100
1	6-15-84	0020		1.4S	C.O.
2	6-15-84	0040		1.8S	Tag S.M.I. 803

mmary of Instruction:

* Location measured to nearest tenth of mile to the north or south of Risely er. Record known or estimated time when crawl was made or thought to have curred. Conduct surveys daily during regular working hours 0800-1630, aveling by four wheel drive vehicle when the tide is low. Traverse the beach ood plane in vehicle to avoid leaving tire tracks in the sand.

SEA TURTLE INVENTORY
(Crawl Data)
TABLE I
Marine Corps Base
Camp Lejeune, North Carolina

wl	Date	Time Crawl Occurred	Active Nest	Location*	Comments
3	6-26-84	2300	X	3.3N	Tag AAR 101,102. Eggs 15 Relocated to dunes.
4	6-27-84	2300	X	2.3S	Tag AAR 103, 104. Eggs 5 Relocated to dunes.
5	6-27-84	0400		3.N	C.O.
6	6-27-84	0330	X	4.N	Relocated to dune. Eggs 138.
7	6-27-84	2200	X	2.9N	Relocated to dune. Eggs 1 Tag AAR 105, 106
8	6-27-84	2-15		1.6S	Tag AAR 107, 108
9	6-27-84	2325	X	3.4S	Return Tag AAR 107, 108. Eggs 131.
0	6-27-84	0135	X	3.7N	Tags AAR 109, 110 Eggs 139
1	6-27-84	2330	X	3.4N	Return Tag 089, 090 Eggs 121
2	6-28-84	0020	X	2.0N	Return Tag AAR 097, 098. Eggs 152. Relocated f/1.
3	6-28-84	0115		2.6S	Return Tag AAR 095, 096
4	6-28-84	0120		3.0S	C.O.
5	6-28-84	0355		1.8S	C.O.
6	6-27-84	2130	X	3.4N	Tag AAR 111, 112. Eggs 13 Relocated to dunes.
7	6-27-84	2330		1.8N	Return Tag AAR 093, 094
8	6-27-84	2345	X	.2N	Relocated from 1.2S Ret.Tag 091,092. Eggs 12
9	6-27-84	0100		2.9S	Return Tag AAR 095, 096
40	6-27-84	0340	X	3.75S	Relocated from 3.6S. Retu Tag AAR095,096. Eggs 136.
41	6-28-84	2345	X	.6N	Relocated to dune. Retur Tag AAR093,094. Eggs 132
42	6-28-84	2345	X	.6N	Relocated to dune. Tags AAR 113,114. Eggs 91.
43	6-28-84	0100	X	2.1S	Tags AAR 115, 116. Eggs 144.

ummary of Instruction:

* Location measured to nearest tenth of mile to the north or south of Risely er. Record known or estimated time when crawl was made or thought to have curred. Conduct surveys daily during regular working hours 0800-1630, raveling by four wheel drive vehicle when the tide is low. Traverse the beach ood plane in vehicle to avoid leaving tire tracks in the sand.

SEA TURTLE INVENTORY
(Crawl Data)
TABLE I
Marine Corps Base
Camp Lejeune, North Carolina

awl o.	Date	Time Crawl Occurred	Active Nest	Location*	Comments
44	6-28-84	0130		2.2S	C.O.
45	6-28-84	0130		2.3S	C.O.
46	6-28-84	0135		3.1S	C.O.
47	6-28-84	0225		.7S	C.O.
48	6-29-84	2330		3.6N	C.O.
49	6-29-84	23-0		3.8N	C.O.
50	6-29-84	0040		1.6N	C.O.
51	6-29-84	2355		.3S	C.O.
52	6-30-84	0240	X	2.1N	Relocated from 2.4S Eggs 131
53	7-1-84	0030	X	2.1S	Relocated from 3.3S Eggs 159
54	7-4-84	2300	X	1.5S	Return Tags AAR 105, 106 Eggs 144
55	7-5-84	2230	X	2.3N	Relocated to dune. Eggs 161
56	7-9-84	0100		1.1S	C.O.
57	7-9-84	0300	X	1.0N	Return Tag AAR 107, 108. Eggs 122
58	7-10-84	2307		.9S	C.O.
59	7-10-84	0200	X	3.2N	Relocated to dunes. Eggs 126. Tag AAR 097, 098.
60	7-11-84	2230	X	.2N	Tag AAR 117, 118. Reloca from .6S. Eggs 157
61	7-11-84	0020	X	3.7S	Tag AAR 119,120. Relocat to dune 25m.N10M. Eggs 1
62	7-11-84	0310		2.2S	Return Tag AAR 091, 092.
63	7-12-84	0043	X	2.0S	Return Tag AAR 091, 092. Eggs 131
64	7-12-84	0120		3.7S	C.O.
65	7-15-84	2130	X	1.9N	Relocated 10m(S) to dune Tag AAR 121,122. Eggs 11

ummary of Instruction:

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SEA TURTLE INVENTORY
(Crawl Data)
TABLE I
Marine Corps Base
Camp Lejeune, North Carolina

awl o.	Date	Time Crawl Occurred	Active Nest	Location*	Comments
66	7-16-84	2350		1.8N	Return Tag AAR 105,106.
67	7-16-84	0310		3.4N	Return Tag AAR 105, 106.
68	7-17-84	2215	X	2.9N	Rel.to Dune. Return Tag AAR 105,106. Eggs 142.
69	7-22-84	0312	X	.8N	Rel.to Ocean side of Dune Tag AAR 123,124. Eggs 171
70					
71	7-23-84	2130	X	2.4N	Eggs - 140.
72	7-23-84	2330	X	3.2N	Return Tag AAR 097, 098. Eggs 130.
73	7-23-84	0030		.1N	Return Tag AAR 107, 108.
74	7-23-84	0050		3.1S	Return Tag AAR 119,120.
75	7-23-84	0228		2.9S	C.O.
76	7-23-84	0335	X	3.1S	Relocated to Dune. Return Tag AAR 119,120. Eggs 125
77	7-24-84	2320		3.3N	C.O. Tag AAR 125, 126.
78	7-24-84	0022	X	67M.N	Rel.from under Risely Pie Tag AAR127,128. Eggs 129.
79	7-24-84	0120	X	.8N	Relocated from .4S. Eggs 130.
80	7-25-84	0057	X	3.6S	Return Tag AAR 125,126. Rel to dune. Eggs 118.
81	7-26-84	2200	X	.1N	Relocated from .6S.Retur Tag AAR 099,100. Eggs 93
82	7-26-84	2255		3.2N	C.O.
83	7-26-84	0130	X	3.5N	Tag S.M.I. 803. Relocat to Dune. Eggs 89.
84	7-26-84	0230		2.6S	C.O.
85	7-27-84	0110		2.3N	C.O.
86	7-27-84	0126	X	.7N	Relocated to dune. Retur Tag AAR 093,094. Eggs 12

ummary of Instruction:

* Location measured to nearest tenth of mile to the north or south of Risely ier. Record known or estimated time when crawl was made or thought to have ccurred. Conduct surveys daily during regular working hours 0800-1630, raveling by four wheel drive vehicle when the tide is low. Traverse the beach iood plane in vehicle to avoid leaving tire tracks in the sand.

SEA TURTLE INVENTORY
(Crawl Data)
TABLE I
Marine Corps Base
Camp Lejeune, North Carolina

awl o.	Date	Time Crawl Occurred	Active Nest	Location*	Comments
87	7-28-84	1134		1.0S	Return Tag AAR 129, 130.
88	7-28-84	1145	X	3.3S	Relocated 5MN to Dunes. Ret.Tag AAR113,114.Eggs1
89	7-28-84	0258	X	1.5N	Ret. Tag AAR 121, 122. Eggs 109.
90	7-29-84	2150	X	.2N	Relocated to Dune. Eggs 115.
91	7-30-84	2230	X	2.1S	Eggs 144. C.O.
92	7-30-84	2330		2.9N	C.O.
93	7-31-84	0010	X	.6N	Relocated to Dunes. Retu Tag AAR 105,.06. Eggs 15
94	7-31-84	0230	X	1.95N	Relocated from 1.1S. Eggs 114.
95	8-5-84	2151	X	.2N	Relocated to Dune. Tag AAR 131, 132. Eggs 63.
96	8-5-84	0200		2.8S	Return Tag AAR 119, 120.
97	8-5-84	0330		2.7S	C.O.
98	8-6-84	2300		1.7N	Return Tag AAR 123, 124.
99	8-6-84	2341		3.3N	C.O.
00	8-6-84	0115	X	3.2N	Return Tag AAR 097, 098. Eggs 114.
01	8-6-84	0230	X	3.2N	Relocated from 2.9S. Retu Tag AAR 119,120. Eggs 129
02	8-7-84	0320	X	3.5N	Relocated to Dune. Tag AAR 133,134. Eggs 117.
03	8-12-84	2110	X	2.0N	C.O. found from prev.nigh 8-11-84. Eggs 134.Rel.to du
04	8-12-84	2145		3.1N	C.O.
05	8-12-84	2300		2.0S	C.O.
06	8-12-84	0047		3.0S	C.O.
07	8-12-84	0055		3.1S	C.O.

ummary of Instruction:
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SEA TURTLE INVENTORY
(Crawl Data)
TABLE I
Marine Corps Base
Camp Lejeune, North Carolina

awl o.	Date	Time Crawl Occurred	Active Nest	Location*	Comments
8	8-11-84	0123		1.0N	C.O.
9	8-12-84	0220		.6N	C.O. (Eggs 125
0	8-13-84	2127	X	2.0N	Relocated from 1.7N. Return Tag AAR 093,094.
1	8-13-84	0115	X	1.8N	C.O. Relocated from 1.7S. Eggs 114.
2	8-17-84	2305	X	3.9N	Relocated to Dune. Tag AAR 135,136. Eggs 122.
3	8-21-84	0126		3.5S	C.O.
4	8-22-84	2140		1.9S	C.O.
5	8-22-84	0050		2.3N	C.O.
6	8-22-84	0140		2.4S	C.O.
7	8-22-84	0150	X	2.0N	Relocated to Dune. Tag AAR 137,138. Eggs 76.
8	8-23-84	2150		3.1N	C.O.
9	8-23-84	2310	X	.2N	Relocated from .4S. Retur Tag AAR 107,108. Eggs 114
0	8-24-84	2300	X	3.7S	C.O. Eggs 98.
1	8-31-84	2100/0500	X	3.2N	C.O. Eggs 133.

mmary of Instruction:

* Location measured to nearest tenth of mile to the north or south of Risely er. Record known or estimated time when crawl was made or thought to have curred. Conduct surveys daily during regular working hours 0800-1630, aveling by four wheel drive vehicle when the tide is low. Traverse the beach ood plane in vehicle to avoid leaving tire tracks in the sand.

TABLE II

RETURN RECORD OF TAGGED TURTLES
1984 SEA TURTLE INVENTORY

Date Tagged	Tag Number	Return	Return	Return	Return
6-9-84 (2)	AAR 087, 088				
6-9-84 (2)	AAR 089, 090	6-26-84 (2)			
6-12-84 (2)	AAR 091, 092	6-27-84 (2)	7-12-84 (2)		
6-12-84 (2)	AAR 093, 094	6-28-84 (2)	7-27-84 (2)	8-13-84 (2)	
6-13-84 (1)	AAR 095, 096	6-13-84 (2)	6-27-84 (1)	7-27-84 (2)	
6-13-84 (2)	AAR 097, 098	6-26-84 (2)	7-10-84 (2)	7-23-84 (2)	8-6-84 (2)
6-15-84 (1)	AAR 099, 100	7-26-84 (2)			
6-16-84 (2)	AAR 101, 102				
6-17-84 (2)	AAR 103, 104				
6-22-84 (2)	AAR 105, 106	7-4-84 (2)	7-16-84 (1)	7-17-84 (2)	7-30-84(2)
6-22-84 (1)	AAR 107, 108	6-23-84 (2)	7-9-84 (2)	7-23-84 (1)	8-23-84(2)
6-23-84 (1)	AAR 109, 110				
6-27-84 (2)	AAR 111, 112				
6-28-84 (2)	AAR 113, 114	7-28-84 (2)			
6-28-84 (2)	AAR 115, 116				
7-11-84 (2)	AAR 117, 118				
7-11-84 (2)	AAR 119, 120	7-23-84 (1) (2)	8-5-84 (1)	8-6-84 (2)	
7-15-84 (2)	AAR 121, 122	7-28-84 (2)			
7-22-84 (2)	AAR 123, 124	8-6-84 (1)			
7-24-84 (1)	AAR 125, 126	7-25-84 (2)			
7-24-84 (2)	AAR 127, 128				
7-28-84 (1)	AAR 129, 130				
8-5-84 (2)	AAR 131, 132				
8-7-84 (2)	AAR 133, 134				

TABLE II (Cont'd)

Date Tagged	Tag Number	Return	Return	Return	Return
8-17-84 (2)	AAR 135, 136				
8-22-84 (2)	AAR 137, 138				
6-15-84 (1)	SMI 803 *	7-26-84 (2)			
	IMS				

(1) Did not nest

(2) Nested

* Scientific Marine Institute, Morehead City, North Carolina

TABLE III

CRAWL INFORMATION IN RELATION TO MOON AND TIDAL CYCLES

Date	Moon Rise % Illumin.	Time of High Tide	Time Crawl W/O Nest	Time Crawl W/Nest	Total Crawls
-23-84	0131 - 48%	0145	0800-1130		2
-24-84	0158 - 38%	0139		0800-1200	1
-4-84	1039 - 21%	2336	2100-0500		2
-7-84	1406 - 54%	0236		0300	1
-8-48	1513 - 65%	0341	2100-0500		1
-9-84	1621 - 75%	0444	2100-0500	0300 2300	3
-11-84	1838 - 92%	1905	2100-0500 2100-0500		2
-12-84	1945 - 97%	1955	2100-0500	2230 0030	3
-13-84	2049 - 100%	2042	1300-1530 2100-0500	2230 2400	5
-15-84	2239 - 98%	2213	0010-0040 0020		3
-16-84	2322 - 94%	2255		2300	2
-17-84	2359 - 88%	2339	0400	2300	2
-21-84	0125 - 54%	0247	0400	0330	2
-22-84	0150 - 45%	1527	0005	2200	2
-23-84	0215 - 36%	1617		2325 0145	2
-26-84	0346 - 11%	1839	0115-0355 0120	2330 0030	5
-27-84	0426 - 05%	1923	2330 0100	2130-0330 2345	5
-28-84	0515 - 02%	2010	0130-0225 0130 0135	2345 0100 2345	7
-29-84	0612 - 00%	2056	2330 2355 2340		3
-30-84	0717 - 01%	2144		0245	1
-1-84	0827 - 05%	2234		0030	1
-4-84	1158 - 29%	0114		2300	1
-5-84	1306 - 40%	2205		2230	1
-9-84	1733 - 82%	0619	0100	0300	2

TABLE III

CRAWL INFORMATION IN RELATION TO MOON AND TIDAL CYCLES

Date	Moon Rise % Illumin.	Time of High Tide	Time Crawl W/O Nest	Time Crawl W/Nest	Total Crawls
7-10-84	1838 - 90%	0114	2307	0200	2
7-11-84	1938 - 95%	1940	0310	2230 0020	3
7-12-84	2031 - 99%	2024	0120	0043	2
7-15-84	2230 - 96%	2227		2130	1
7-16-84	2300 - 92%	2306	2350 0310		2
7-17-84	2326 - 86%	2344		2215	1
7-22-84	0110 - 42%	0344		0312	1
7-23-84	0141 - 32%	1622	0030 0227 0050	2130 0335 2330	6
7-24-84	0218 - 23%	1716	2320	0022 0120	3
7-25-84	0303 - 15%	0630		0057	1
7-26-84	0356 - 08%	1759	2255 0230	2200 0130	4
7-27-84	0458 - 03%	1949	0110	0126	2
7-28-84	0507 - 00%	2038	1134	1145 0258	3
7-29-84	0607 - 01%	2129	2330	2150 2330	3
7-30-84	0834 - 03%	2117		0010	1
7-31-84	0946 - 09%	2307		0230	1
8-5-84	1526 - 60%	0403	0200 0330	2151	3
8-6-84	1631 - 70%	0509	2300 2341	0115 0230	4
8-7-84	1732 - 79%	0607		0320	1
8-12-84	2101 - 100%	2122	2145 0047 0123 2300 0055 0220	2110	7
8-13-84	2129 - 98%	2159		2127 0115	2
8-17-84	2310 - 76%	2422		2305	1
8-21-84	- 38%	0405	0126		1
8-22-84	0141 - 28%	2311	2140 0140 0050 0150		4

TABLE III

CRAWL INFORMATION IN RELATION TO MOON AND TIDAL CYCLES

Date	Moon Rise % Illumin.	Time of High Tide	Time Crawl W/O Nest	Time Crawl W/Nest	Total Crawls
3-23-84	0238 - 19%	1742	2120	2310	2
3-24-84	0343 - 11%	1839		2300	1
3-30-84	1000 - 15%	2342		2100/0500	1

TABLE IV

GROUND SURVEY NUMBER

(Nights not separated at Midnight)

Date	Crawls/No Nest	Crawls/Nest	Total
6-4-84	1	1	2
6-5-84	0	0	0
6-6-84	0	0	0
6-7-84	0	1	1
6-8-84	1	0	1
6-9-84	1	2	3
6-10-84	0	0	0
6-11084	2	0	2
6-12-84	1	2	3
6-13-84	3	2	5
6-14-84	0	0	0
6-15-84	3	0	3
6-16-84	0	1	1
6-17-84	1	1	2
6-18-84	0	0	0
6-19-84	0	0	0
6-20-84	0	0	0
6-21-84	1	1	2
6-22-84	1	1	2
6-23-84	0	2	2
6-24-84	0	0	0
6-25-84	0	0	0
6-26-84	3	2	5
6-27-84	2	3	5
6-28-84	4	3	7
6-29-84	3	0	3
6-30-84	0	1	1
7-1-84	0	1	1
7-2-84	0	0	0
7-3-84	0	0	0
7-4-84	0	1	1
7-5-84	0	1	1
7-6-84	0	0	0
7-7-84	0	0	0
7-8-84	0	0	0
7-9-84	1	1	2
7-10-84	1	1	2
7-11-84	1	2	3
7-12-84	1	1	2
7-13-84	0	0	0
7-14-84	0	0	0
7-15-84	0	1	1
7-16-84	2	0	2
7-17-84	0	1	1
7-18-84	0	0	0
7-19-84	0	0	0

TABLE IV (cont'd)

Date	Crawls/No Nest	Crawls/Nest	Total
7-20-84	0	0	0
7-21-84	0	0	0
7-22-84	0	1	1
7-23-84	3	3	6
7-24-84	1	2	3
7-25-84	0	1	1
7-26-84	2	2	4
7-27-84	1	1	2
7-28-84	1	2	3
7-29-84	1	2	3
7-30-84	0	1	1
7-31-84	0	1	1
8-1-84	0	0	0
8-2-84	0	0	0
8-3-84	0	0	0
8-4-84	0	0	0
8-5-84	2	1	3
8-6-84	2	2	4
8-7-84	0	1	1
8-8-84	0	0	0
8-9-84	0	0	0
8-10-84	0	0	0
8-11-84	0	0	0
8-12-84	6	1	7
8-13-84	0	2	2
8-14-84	0	0	0
8-15-84	0	0	0
8-16-84	0	0	0
8-17-84	0	1	1
8-18-84	0	0	0
8-19-84	0	0	0
8-20-84	0	0	0
8-21-84	1	0	1
8-22-84	4	0	4
8-23-84	1	1	2
8-24-84	0	1	1
8-25-84	0	0	0
8-26-84	0	0	0
8-27-84	0	0	0
8-28-84	0	0	0
8-29-84	0	0	0
8-30-84	0	1	1
8-31-84	0	0	0

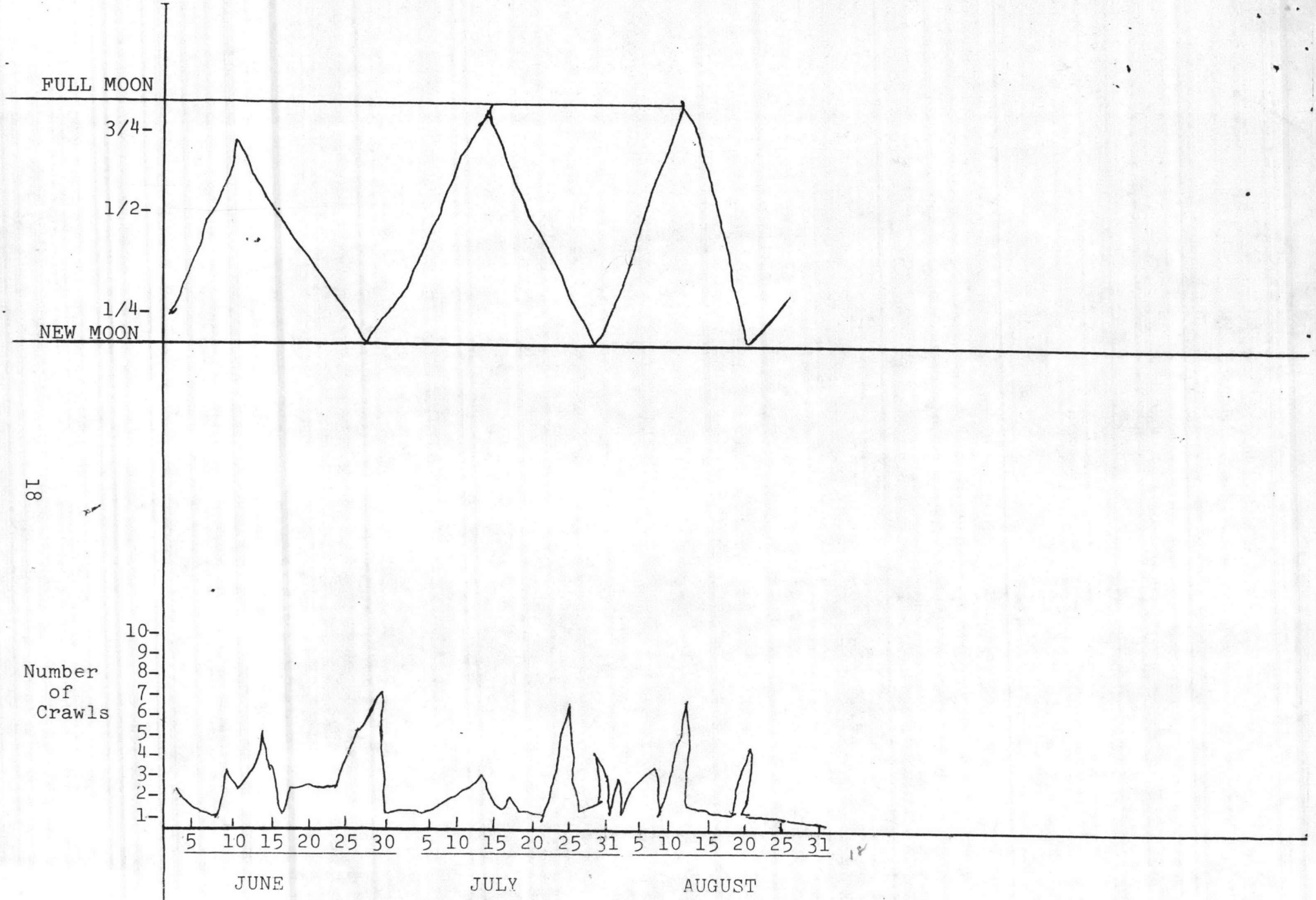

FIG. 1 - CRAWLS IN RELATION TO LUNAR CYCLE

TABLE V

AERIAL SURVEY

Date	ONSLOW BEACH						BROWNS ISLAND						BEAR ISLAND						Weather
	NC	OC	NN	ON	NP	OP	NC	OC	NN	ON	NP	OP	NC	OC	NN	ON	NP	OP	
5-25-84																			Fog/Clear
5-29-84							1		1				1		1				Clear
5-31-84																			Foggy/Overcast
6-5-84	1		1				1	1	1	1				1		1			Fog/Haze/Clear
6-7-84	1	1	1	1			3	3	2	3			3	2	3	2			Broken
6-12-84	1	1	1				4	4	2					2		2	2		Fog/Clear
6-14-84	5	2	5	2	1		6	4	5	4			2	1	2	1			Haze/Clear
6-19-84	4	2	2	2			2		2				4	1	3	1			Clear
6-21-84							2	2	2	2			2	2	2	2			Foggy/Clear
6-26-84	7	2	7	2			4	1	4	1			1						Clear
6-28-84	2	4	2	4			4		3				3		3				Fog/Haze/Overcas
7-3-84	2		2				1		1				1	1	1	1			Scattered
7-6-84	4		4				2		2				2		2				Clear
7-11-84	2		2					2		2									Foggy/Clear
7-13-84		1		1			3		3				2		2				Fog/Overcast
7-17-84	2		2										2		2				Clear
7-20-84							2		2				2		1				LtRain/Overcast
7-24-84	11		8				5	2	5	2			3		3				Foggy/Clear
7-27-84	7	1	7	1			4		4				4	1	4	1			Haze/Broken
8-2-84	3		3				13		13				7		7				Fog/Haze/Scatter
8-7-84	5		5				2		2				3		3				Haze/Fog/Clear
8-9-84	7	1	6	1				2		2			3	2	3	2			Fog/Haze/Clear
8-14-84	3		3				2		2				2		2				Haze/Clear
8-17-84							2	2	2	2				1		1			Clear/Obscured
8-21-84													1	1					Haze/Broken
8-23-84	4		4				1		1				2		2				Haze/Sctd/Brkn
8-27-84		1		1			1		1										Clear
8-30-84																			Clear

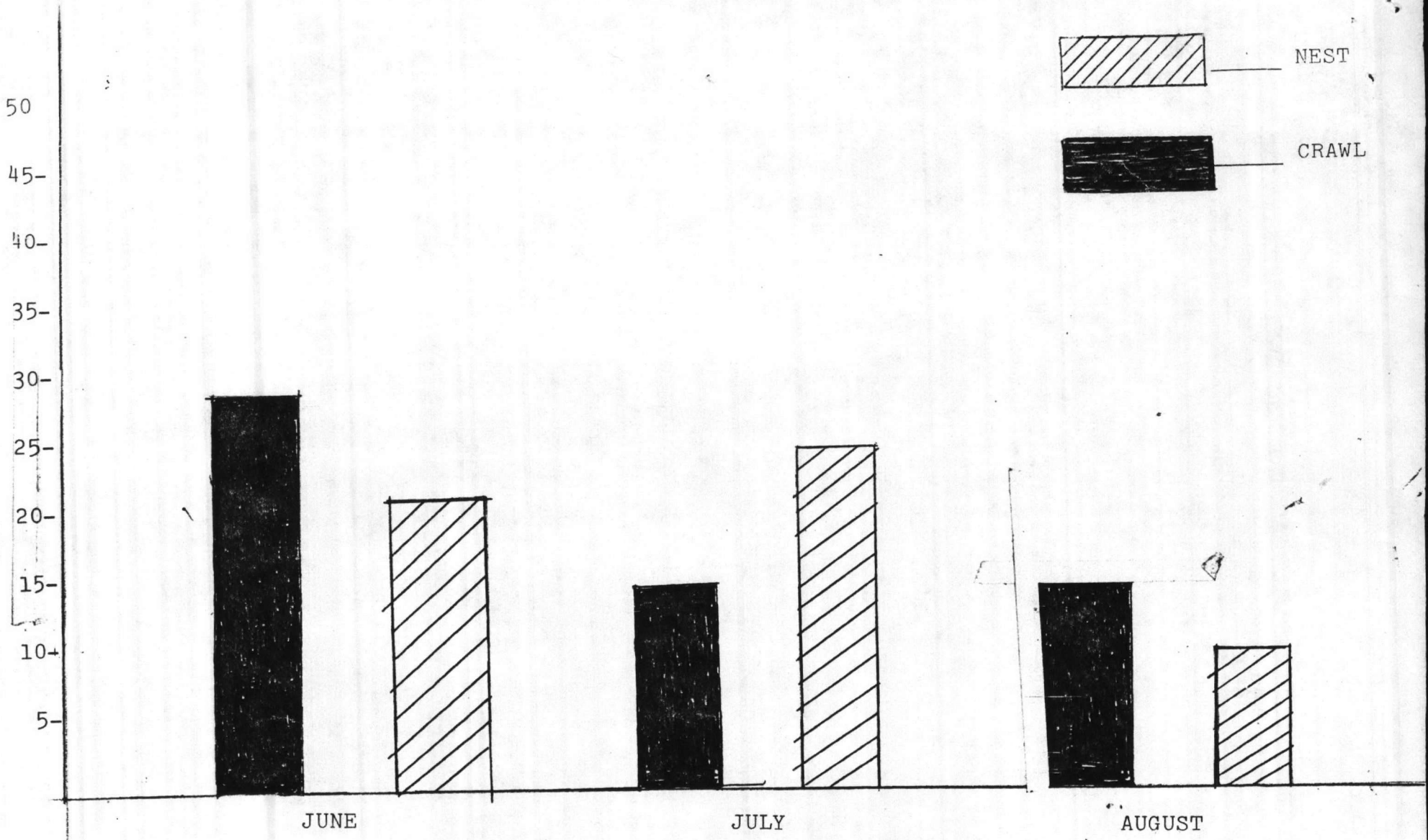

FIG. 2 - TOTAL CRAWLS AND NESTS BY MONTHS

SEA TURTLE INVENTORY

for

SUMMER AND FALL 1984

NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION

ASSISTANT CHIEF OF STAFF, FACILITIES

MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA 28542

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INTRODUCTION

The sea turtle inventory for 1984 is a continuation of past efforts by Natural Resources and Environmental Affairs Division, Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune, North Carolina, to protect sea turtle nesting activities at Onslow Beach. The sea turtle inventory consists of several programs including: nest protection, tagging of adult turtles, collecting nesting data, determining hatchling success and aerial surveys.

Management personnel began operating under a Federal Fish and Wildlife Permit during 1981, issued for working with threatened Loggerhead and Green Turtles. The permit authorizes the tagging and measurement of adults and the relocation of nests threatened by erosion, tides, extreme predation or military training activities. Nests may be moved only within 24 hours of egg laying to a safe beach location and not to a laboratory. Relocated nests are required to be monitored and hatchling success documented.

The results of the aforementioned program are as follows:

a. Nest protection from predators, 63.

b. Tagging of adults - number of turtles tagged 26.

Tag return data may be reviewed in Table II, page 9.

c. Nesting data - Number of nests - 63.

d. Total number of crawls - 121.

e. Total number of eggs - 7,788.

f. Total number of hatchlings - 4,484.

g. Number of tag returns - 30.

h. Number of stranded turtles - 4.

i. Number of nests lost during Hurricane Diana - 2.

j. Number of nests lost during abnormal high tides associated with northeast winds - 6.

k. Number unhatched nests from unknown causes 5.

Stranding reports were submitted to the North Carolina Wildlife Resources Stranding Network Coordinator. Carcasses were buried on the beach.

Percent hatchling success is 157%; nesting and crawl data is compiled in Tables I, II, III, IV, and V, and Graphs I and II on pages 5 through 19. The enclosed maps indicate locations of turtle activity on Onslow Beach.

Aerial survey data may be found in Table IV, page 20.

The Marine Corps Base, Camp Lejeune and Natural Resources and Environmental Affairs Division give special thanks to Doctor F. J. Schwartz at the Institute of Marine Science, Morehead City for his advice and services.

For copies of this report or other information concerning the sea turtle management program conducted by this agency, contact: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina 28542 Attention: Director, Natural Resources and Environmental Affairs Division, Assistant Chief of Staff, Facilities.

SEA TURTLE INVENTORY
(Crawl Data)
TABLE I
Marine Corps Base
Camp Lejeune, North Carolina

awl o.	Date	Time Crawl Occurred	Active Nest	Location*	Comments
23	6-26-84	2300	X	3.3N	Tag AAR 101,102. Eggs 155. Relocated to dunes.
24	6-27-84	2300	X	2.3S	Tag AAR 103, 104. Eggs 53. Relocated to dunes.
25	6-27-84	0400		3.N	C.O.
26	6-27-84	0330	X	4.N	Relocated to dune. Eggs 138.
27	6-28-84	2200	X	2.9N	Relocated to dune.Eggs 164 Tag AAR 105, 106
28	6-28-84	2405		1.6S	Tag AAR 107, 108
29	6-29-84	2325	X	3.4S	Return Tag AAR 107, 108. Eggs 131.
30	6-30-84	0135	X	3.7N	Tags AAR 109, 110 Eggs 139
31	6-26-84	2330	X	3.4N	Return Tag 089, 090 Eggs 121
32	6-26-84	0020	X	2.0N	Return Tag AAR 097, 098. Eggs 152. Relocated f/1.2S
33	6-26-84	0115		2.6S	Return Tag AAR 095, 096
34	6-26-84	0120		3.0S	C.O.
35	6-26-84	0355		1.8S	C.O.
36	6-27-84	2130	X	3.4N	Tag AAR 111, 112. Eggs 137 Relocated to dunes.
37	6-27-84	2330		1.8N	Return Tag AAR 093, 094
38	6-27-84	2345	X	.2N	Relocated from 1.2S Ret.Tag 091,092. Eggs 124.
39	6-27-84	0100		2.9S	Return Tag AAR 095, 096
40	6-27-84	0340	X	3.75S	Relocated from 3.6S. Retur Tag AAR095,096. Eggs 136.
41	6-28-84	2345	X	.6N	Relocated to dune. Returr Tag AAR093,094. Eggs 132.
42	6-28-84	2345	X	.6N	Relocated to dune. Tags AAR 113,114. Eggs 91.
43	6-28-84	0100	X	2.1S	Tags AAR 115, 116. Eggs 144.

ummary of Instruction:
* Location measured to nearest tenth of mile to the north or south of Risely er. Record known or estimated time when crawl was made or thought to have curred. Conduct surveys daily during regular working hours 0800-1630, raveling by four wheel drive vehicle when the tide is low. Traverse the beach ood plane in vehicle to avoid leaving tire tracks in the sand.

SEA TURTLE INVENTORY
(Crawl Data)
TABLE I
Marine Corps Base
Camp Lejeune, North Carolina

rawl No.	Date	Time Crawl Occurred	Active Nest	Location*	Comments
044	6-28-84	0130		2.2S	C.O.
045	6-28-84	0130		2.3S	C.O.
046	6-28-84	0135		3.1S	C.O.
047	6-28-84	0225		.7S	C.O.
048	6-29-84	2330		3.6N	C.O.
049	6-29-84	2340		3.8N	C.O.
050	6-29-84	0040		1.6N	C.O.
051	6-29-84	2355		.3S	C.O.
052	6-30-84	0240	X	2.1N	Relocated from 2.4S Eggs 131
053	7-1-84	0030	X	2.1S	Relocated from 3.3S Eggs 159
054	7-4-84	2300	X	1.5S	Return Tags AAR 105, 106. Eggs 144
055	7-5-84	2230	X	2.3N	Relocated to dune. Eggs 161
056	7-9-84	0100		1.1S	C.O.
057	7-9-84	0300	X	1.0N	Return Tag AAR 107, 108. Eggs 122
058	7-10-84	2307		.9S	C.O.
059	7-10-84	0200	X	3.2N	Relocated to dunes. Eggs 126. Tag AAR 097, 098.
060	7-11-84	2230	X	.2N	Tag AAR 117, 118. Relocat from .6S. Eggs 157
061	7-11-84	0020	X	3.7S	Tag AAR 119,120. Relocat to dune 25m.N10M. Eggs 1
062	7-11-84	0310		2.2S	Return Tag AAR 091, 092.
063	7-12-84	0043	X	2.0S	Return Tag AAR 091, 092. Eggs 131
064	7-12-84	0120		3.7S	C.O.
065	7-15-84	2130	X	1.9N	Relocated 10m(S) to dune Tag AAR 121,122. Eggs 11

Summary of Instruction:

* Location measured to nearest tenth of mile to the north or south of Risely Pier. Record known or estimated time when crawl was made or thought to have occurred. Conduct surveys daily during regular working hours 0800-1630, traveling by four wheel drive vehicle when the tide is low. Traverse the beach flood plane in vehicle to avoid leaving tire tracks in the sand.

SEA TURTLE INVENTORY
(Crawl Data)
TABLE I
Marine Corps Base
Camp Lejeune, North Carolina

Crawl No.	Date	Time Crawl Occurred	Active Nest	Location*	Comments
066	7-16-84	2350		1.8N	Return Tag AAR 105,106.
067	7-16-84	0310		3.4N	Return Tag AAR 105, 106.
068	7-17-84	2215	X	2.9N	Rel.to Dune. Return Tag AAR 105,106. Eggs 142.
069	7-22-84	0312	X	.8N	Rel.to Ocean side of Dune Tag AAR 123,124. Eggs 111
070					
071	7-23-84	2130	X	2.4N	Eggs - 140.
072	7-23-84	2330	X	3.2N	Return Tag AAR 097, 098. Eggs 130.
073	7-23-84	0030		.1N	Return Tag AAR 107, 108.
074	7-23-84	0050		3.1S	Return Tag AAR 119,120.
075	7-23-84	0228		2.9S	C.O.
076	7-23-84	0335	X	3.1S	Relocated to Dune. Return Tag AAR 119,120. Eggs 125
077	7-24-84	2320		3.3N	C.O. Tag AAR 125, 126.
078	7-24-84	0022	X	67M.N	Rel.from under Risely Pier Tag AAR127,128. Eggs 129.
079	7-24-84	0120	X	.8N	Relocated from .4S. Eggs 130.
080	7-25-84	0057	X	3.6S	Return Tag AAR 125,126. Rel to dune. Eggs 118.
081	7-26-84	2200	X	.1N	Relocated from .6S.Return Tag AAR 099,100. Eggs 93.
082	7-26-84	2255		3.2N	C.O.
083	7-26-84	0130	X	3.5N	Tag S.M.I. 803. Relocate to Dune. Eggs 89.
084	7-26-84	0230		2.6S	C.O.
085	7-27-84	0110		2.3N	C.O.
086	7-27-84	0126	X	.7N	Relocated to dune. Return Tag AAR 093,094. Eggs 125

Summary of Instruction:

* Location measured to nearest tenth of mile to the north or south of Risely Pier. Record known or estimated time when crawl was made or thought to have occurred. Conduct surveys daily during regular working hours 0800-1630, traveling by four wheel drive vehicle when the tide is low. Traverse the beach flood plane in vehicle to avoid leaving tire tracks in the sand.

SEA TURTLE INVENTORY
(Crawl Data)
TABLE I
Marine Corps Base
Camp Lejeune, North Carolina

rawl No.	Date	Time Crawl Occurred	Active Nest	Location*	Comments
87	7-28-84	1134		1.0S	Return Tag AAR 129, 130.
088	7-28-84	1145	X	3.3S	Relocated 5MN to Dunes. Ret.Tag AAR113,114.Eggs14
089	7-28-84	0258	X	1.5N	Ret. Tag AAR 121, 122. Eggs 109.
090	7-29-84	2150	X	.2N	Relocated to Dune. Eggs 115.
091	7-29-84	2230	X	2.1S	Eggs 144. C.O.
092	7-29-84	2330		2.9N	C.O.
093	7-30-84	0010	X	.6N	Relocated to Dunes. Retur Tag AAR 105,.06. Eggs 150.
094	7-31-84	0230	X	1.95N	Relocated from 1.1S. Eggs 114.
095	8-5-84	2151	X	.2N	Relocated to Dune. Tag AAR 131, 132. Eggs 63.
096	8-5-84	0200		2.8S	Return Tag AAR 119, 120.
097	8-5-84	0330		2.7S	C.O.
098	8-6-84	2300		1.7N	Return Tag AAR 123, 124.
099	8-6-84	2341		3.3N	C.O.
100	8-6-84	0115	X	3.2N	Return Tag AAR 097, 098. Eggs 114.
101	8-6-84	0230	X	3.2N	Relocated from 2.9S. Retur Tag AAR 119,120. Eggs 129.
102	8-7-84	0320	X	3.5N	Relocated to Dune. Tag AAR 133,134. Eggs 117.
103	8-12-84	2110	X	2.0N	c.o. found from prev.night 8-11-84. Eggs 134.Rel.to dur
104	8-12-84	2145		3.1N	C.O.
105	8-12-84	2300		2.0S	C.O.
106	8-12-84	0047		3.0S	C.O.
107	8-12-84	0055		3.1S	C.O.

ummary of Instruction:
* Location measured to nearest tenth of mile to the north or south of Risely ier. Record known or estimated time when crawl was made or thought to have ccurred. Conduct surveys daily during regular working hours 0800-1630, raveling by four wheel drive vehicle when the tide is low. Traverse the beach lood plane in vehicle to avoid leaving tire tracks in the sand.

SEA TURTLE INVENTORY
(Crawl Data)
TABLE I
Marine Corps Base
Camp Lejeune, North Carolina

rawl No.	Date	Time Crawl Occurred	Active Nest	Location*	Comments
108	8-12-84	0123		1.0N	C.O.
109	8-12-84	0220		.6N	C.O. (Eggs 125
110	8-13-84	2127	X	2.0N	Relocated from 1.7N. Return Tag AAR 093,094.
111	8-13-84	0115	X	1.8N	C.O. Relocated from 1.7S. Eggs 114.
112	8-17-84	2305	X	3.9N	Relocated to Dune. Tag AAR 135,136. Eggs 122.
113	8-21-84	0126		3.5S	C.O.
114	8-22-84	2140		1.9S	C.O.
115	8-22-84	0050		2.3N	C.O.
116	8-22-84	0140		2.4S	C.O.
117	8-22-84	0150	X	2.0N	Relocated to Dune. Tag AAR 137,138. Eggs 76.
118	8-23-84	2150		3.1N	C.O.
119	8-23-84	2310	X	.2N	Relocated from .4S. Retur Tag AAR 107,108. Eggs 114
120	8-2--84	2300	X	3.7S	C.O. Eggs 98.
121	8-30-84	2100/0500	X	3.2N	C.O. Eggs 133.

Summary of Instruction:

* Location measured to nearest tenth of mile to the north or south of Risely Pier. Record known or estimated time when crawl was made or thought to have occurred. Conduct surveys daily during regular working hours 0800-1630, traveling by four wheel drive vehicle when the tide is low. Traverse the beach flood plane in vehicle to avoid leaving tire tracks in the sand.

TABLE II (Cont'd)

Date Tagged	Tag Number	Return	Return	Return	Return
8-17-84 (2)	AAR 135, 136				
8-22-84 (2)	AAR 137, 138				
6-15-84 (1)	SMI 803 *	7-26-84 (2)			

(1) Did not nest

(2) Nested

* Scientific Marine Institute, Morehead City, North Carolina

TABLE III

CRAWL INFORMATION IN RELATION TO MOON AND TIDAL CYCLES

Date	Moon Rise % Illumin.	Time of High Tide	Time Crawl W/O Nest	Time Crawl W/Nest	Total Crawls
5-23-84	0131 - 48%	0145	0800-1130		2
5-24-84	0158 - 38%	0139		0800-1200	1
6-4-84	1039 - 21%	2336	2100-0500		2
6-7-84	1406 - 54%	0236		0300	1
6-8-48	1513 - 65%	0341	2100-0500		1
6-9-84	1621 - 75%	0444	2100-0500	0300 2300	3
6-11-84	1838 - 92%	1905	2100-0500 2100-0500		2
6-12-84	1945 - 97%	1955	2100-0500	2230 0030	3
6-13-84	2049 - 100%	2042	1300-1530 2100-0500	2230 2400	5
6-15-84	2239 - 98%	2213	0010-0040 0020		3
6-16-84	2322 - 94%	2255		2300	2
6-17-84	2359 - 88%	2339	0400	2300	2
6-21-84	0125 - 54%	0247	0400	0330	2
6-22-84	0150 - 45%	1527	0005	2200	2
6-23-84	0215 - 36%	1617		2325 0145	2
6-26-84	0346 - 11%	1839	0115-0355 0120	2330 0030	5
6-27-84	0426 - 05%	1923	2330 0100	2130-0330 2345	5
6-28-84	0515 - 02%	2010	0130-0225 0130 0135	2345 0100 2345	7
6-29-84	0612 - 00%	2056	2330 2355 2340		3
6-30-84	0717 - 01%	2144		0245	1
7-1-84	0827 - 05%	2234		0030	1
7-4-84	1158 - 29%	0114		2300	1
7-5-84	1306 - 40%	2205		2230	1
7-9-84	1733 - 82%	0619	0100	0300	2

TABLE III

CRAWL INFORMATION IN RELATION TO MOON AND TIDAL CYCLES

Date	Moon Rise % Illumin.	Time of High Tide	Time Crawl W/O Nest	Time Crawl W/Nest	Total Crawls
7-10-84	1838 - 90%	0114	2307	0200	2
7-11-84	1938 - 95%	1940	0310	2230 0020	3
7-12-84	2031 - 99%	2024	0120	0043	2
7-15-84	2230 - 96%	2227		2130	1
7-16-84	2300 - 92%	2306	2350 0310		2
7-17-84	2326 - 86%	2344		2215	1
7-22-84	0110 - 42%	0344		0312	1
7-23-84	0141 - 32%	1622	0030 0227 0050	2130 0335 2330	6
7-24-84	0218 - 23%	1716	2320	0022 0120	3
7-25-84	0303 - 15%	0630		0057	1
7-26-84	0356 - 08%	1759	2255 0230	2200 0130	4
7-27-84	0458 - 03%	1949	0110	0126	2
7-28-84	0507 - 00%	2038	1134	1145 0258	3
7-29-84	0607 - 01%	2129	2330	2150 2330	3
7-30-84	0834 - 03%	2117		0010	1
7-31-84	0946 - 09%	2307		0230	1
8-5-84	1526 - 60%	0403	0200 0330	2151	3
8-6-84	1631 - 70%	0509	2300 2341	0115 0230	4
8-7-84	1732 - 79%	0607		0320	1
8-12-84	2101 - 100%	2122	2145 0047 0123 2300 0055 0220	2110	7
8-13-84	2129 - 98%	2159		2127 0115	2
8-17-84	2310 - 76%	2422		2305	1
8-21-84	- 38%	0405	0126		1
8-22-84	0141 - 28%	2311	2140 0140 0050 0150		4

TABLE III

CRAWL INFORMATION IN RELATION TO MOON AND TIDAL CYCLES

Date	Moon Rise % Illumin.	Time of High Tide	Time Crawl W/O Nest	Time Crawl W/Nest	Total Crawls
8-23-84	0238 - 19%	1742	2120	2310	2
8-24-84	0343 - 11%	1839		2300	1
8-30-84	1000 - 15%	2342		2100/0500	1

TABLE IV

GROUND SURVEY NUMBER

(Nights not separated at Midnight)

Date	Crawls/No Nest	Crawls/Nest	Total
6-4-84	1	1	2
6-5-84	0	0	0
6-6-84	0	0	0
6-7-84	0	1	1
6-8-84	1	0	1
6-9-84	1	2	3
6-10-84	0	0	0
6-11084	2	0	2
6-12-84	1	2	3
6-13-84	3	2	5
6-14-84	0	0	0
6-15-84	3	0	3
6-16-84	0	1	1
6-17-84	1	1	2
6-18-84	0	0	0
6-19-84	0	0	0
6-20-84	0	0	0
6-21-84	1	1	2
6-22-84	1	1	2
6-23-84	0	2	2
6-24-84	0	0	0
6-25-84	0	0	0
6-26-84	3	2	5
6-27-84	2	3	5
6-28-84	4	3	7
6-29-84	3	0	3
6-30-84	0	1	1
7-1-84	0	1	1
7-2-84	0	0	0
7-3-84	0	0	0
7-4-84	0	1	1
7-5-84	0	1	1
7-6-84	0	0	0
7-7-84	0	0	0
7-8-84	0	0	0
7-9-84	1	1	2
7-10-84	1	1	2
7-11-84	1	2	3
7-12-84	1	1	2
7-13-84	0	0	0
7-14-84	0	0	0
7-15-84	0	1	1
7-16-84	2	0	2
7-17-84	0	1	1
7-18-84	0	0	0
7-19-84	0	0	0

TABLE IV (cont'd)

Date	Crawls/No Nest	Crawls/Nest	Total
7-20-84	0	0	0
7-21-84	0	0	0
7-22-84	0	1	1
7-23-84	3	3	6
7-24-84	1	2	3
7-25-84	0	1	1
7-26-84	2	2	4
7-27-84	1	1	2
7-28-84	1	2	3
7-29-84	1	2	3
7-30-84	0	1	1
7-31-84	0	1	1
8-1-84	0	0	0
8-2-84	0	0	0
8-3-84	0	0	0
8-4-84	0	0	0
8-5-84	2	1	3
8-6-84	2	2	4
8-7-84	0	1	1
8-8-84	0	0	0
8-9-84	0	0	0
8-10-84	0	0	0
8-11-84	0	0	0
8-12-84	6	1	7
8-13-84	0	2	2
8-14-84	0	0	0
8-15-84	0	0	0
8-16-84	0	0	0
8-17-84	0	1	1
8-18-84	0	0	0
8-19-84	0	0	0
8-20-84	0	0	0
8-21-84	1	0	1
8-22-84	4	0	4
8-23-84	1	1	2
8-24-84	0	1	1
8-25-84	0	0	0
8-26-84	0	0	0
8-27-84	0	0	0
8-28-84	0	0	0
8-29-84	0	0	0
8-30-84	0	1	1
8-31-84	0	0	0

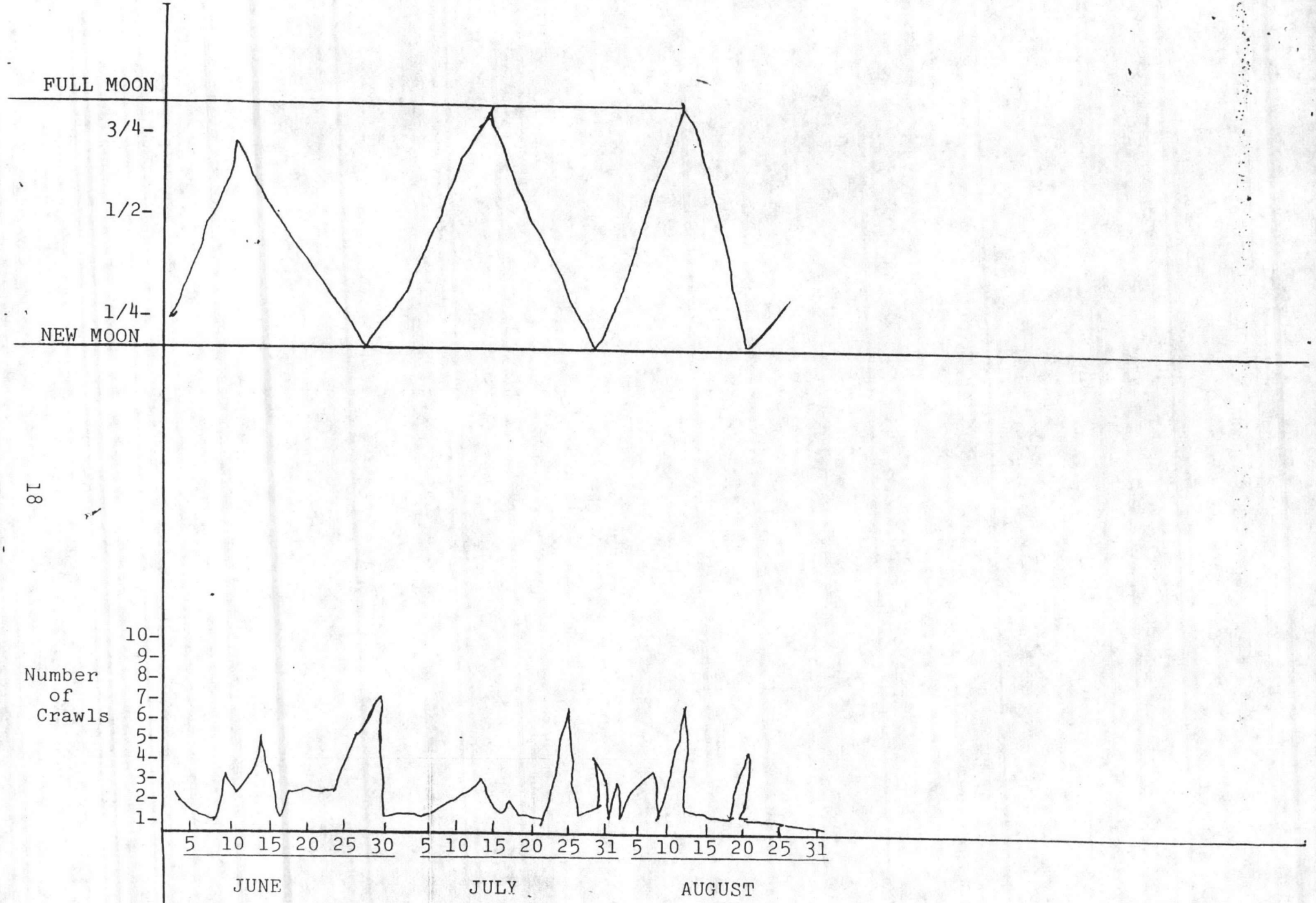


FIG. 1 - CRAWLS IN RELATION TO LUNAR CYCLE

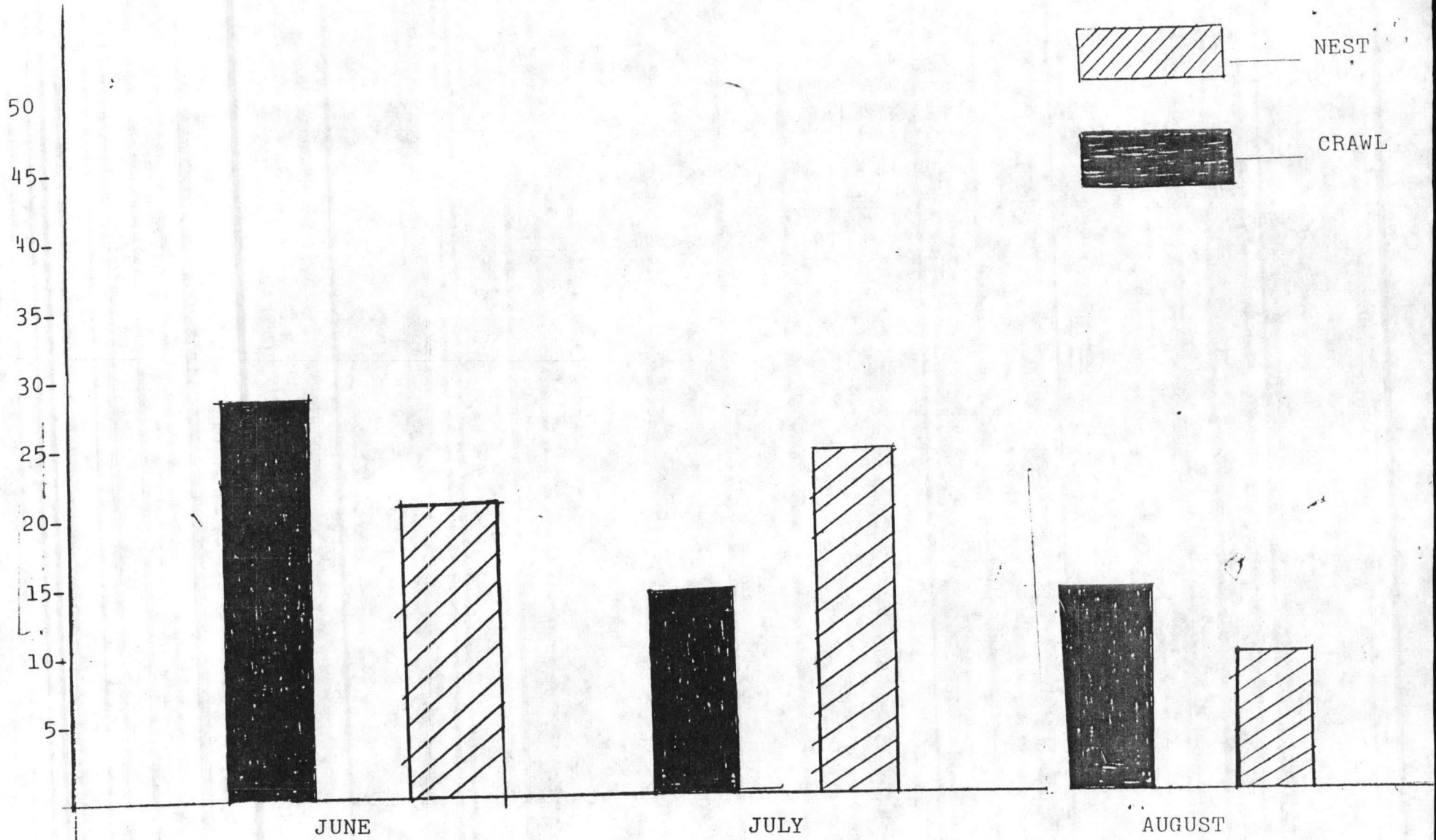


FIG. 2 - TOTAL CRAWLS AND NESTS BY MONTHS

TABLE V

AERIAL SURVEY

Date	ONSLOW BEACH NC	OC	NN	ON	NP	OP	BROWNS ISLAND NC	OC	NN	ON	NP	OP	BEAR ISLAND NC	OC	NN	ON	NP	OP	Weather
5-25-84																			Fog/Clear
5-29-84							1		1				1		1				Clear
5-31-84																			Foggy/Overcast
6-5-84	1		1				1	1	1	1				1		1			Fog/Haze/Clear
6-7-84	1	1	1	1			3	3	2	3			3	2	3	2			Broken
6-12-84	1	1	1				4	4	2					2		2	2		Fog/Clear
6-14-84	5	2	5	2	1		6	4	5	4			2	1	2	1			Haze/Clear
6-19-84	4	2	2	2			2		2				4	1	3	1			Clear
6-21-84							2	2	2	2			2	2	2	2			Foggy/Clear
6-26-84	7	2	7	2			4	1	4	1			1						Clear
6-28-84	2	4	2	4			4		3				3		3				Fog/Haze/Overcas
7-3-84	2		2				1		1				1	1	1	1			Scattered
7-6-84	4		4				2		2				2		2				Clear
7-11-84	2		2					2		2									Foggy/Clear
7-13-84		1		1			3		3				2		2				Fog/Overcast
7-17-84	2		2										2		2				Clear
7-20-84							2		2				2		1				LtRain/Overcast
7-24-84	11		8				5	2	5	2			3		3				Foggy/Clear
7-27-84	7	1	7	1			4		4				4	1	4	1			Haze/Broken
8-2-84	3		3				13		13				7		7				Fog/Haze/Scatter
8-7-84	5		5				2		2				3		3				Haze/Fog/Clear
8-9-84	7	1	6	1				2		2			3	2	3	2			Fog/Haze/Clear
8-14-84	3		3				2		2				2		2				Haze/Clear
8-17-84							2	2	2	2				1		1			Clear/Obscured
8-21-84													1	1					Haze/Broken
8-23-84	4		4				1		1				2		2				Haze/Sctd/Brkn
8-27-84		1		1			1		1										Clear
8-30-84																			Clear

NO. 1

NORTH CAROLINA SEA TURTLE CONSERVATION 1984
NESTING RESULTS

PROJECT NAME Camp Lejeune, NC

Nest #	Date laid	Treatment code	Date hatched	Incubation time	Clutch size *	# Hatched (HN)	Survival % (HN/ H+UH)	Losses (pred., overwash)
1	5-24-84	R/W	8-1-84	70	143	128	87.4	
2	6-4-84	R-W	8-11-84	69	133	6	4.919	
3	6-7-84	R-W	8-11-84	65	148	142	95.9	
4	6-9-84	W	8-27-84	80	71	56	90.16	
5	6-9-84	W	8-24-84	77	61	55	90.16	
6	6-12-84	R-W	8-27-84	77	115	100	87.72	
7	6-12-84	R-W	8-29-84	79	137	105	76.64	
8	6-13-84	W	8-26-84	75	155	24	15.48	
9	6-13-84	R-W	8-21-84	70	98	52	53.06	
10	6-13-84	R-W	8-18-84	67	98	38	41.8	
11	6-16-84	R-W	8-21-84	67	155	135	93.10	
12	6-17-84	R-W	8-25-84	70	53	35	62.5	
13	6-21-84	R-W	9-3-84	75	138	91	65.94	
14	6-22-84	R-W	9-3-84	74	164	149	90.85	
15	6-23-84	W	8-25-84	64	131	114	91.1	
16	6-23-84	W	9-7-84	77	139	104	74.85	
					1939	1,334		

* Clutch size determined from nest remains

Actual clutch size previously confirmed

NORTH CAROLINA SEA TURTLE CONSERVATION 1984
NESTING RESULTS

PROJECT NAME Camp Lejeune, NC

Nest #	Date laid	Treatment code	Date hatched	Incubation time	Clutch size *	# Hatched (HN)	Survival % (HN/ H+UH)	Losses (pred., overwash)
17	6-26-84	W	9-4-84	71	66 121	67 107	88.42	
18	6-26-84	R-W	9-6-84	73	152	22	14.47	
19	6-27-84	R-W	9-5-84	71	137	102	74.45	
20	6-27-84	R-W	9-4-84	70	124	110	88.70	
21	6-27-84	R-W	8-27-84	62	126	129	88.35	
22	6-28-84	R-W	9-4-84	69	132	128	96.96	
23	6-28-84	R-W	9-4-84	69	91	80	87.92	
24	6-28-84	W	8-31-84	65	144	121	84.02	
25	6-30-84	R-W	9-4-84	67	131	119	90.83	
26	7-1-84	R-W	9-6-84	68	159	146	91.82	
27	7-4-84	W	9-9-84	68	144	133	92.36	
28	7-4-84	R-W	9-17-84	76	161	147	91.34	
29	7-9-84	W	9-16-84	70	122	120	98.13	
30	7-10-84	R-W	9-15-84	68	126	63	50.	
31	7-11-84	R-W	9-19-84	71	157	153	97.45	
32	7-11-84	R-W	9-9-84	61	124	85	68	
33	7-12-84	W	9-26-84	76	131	97	74.04	
34	7-15-84	R-W	9-27-84	75	117	111	94.87	
					2409	1973		

* Clutch size determined from nest remains
*

NO. 2

NORTH CAROLINA SEA TURTLE CONSERVATION 1984
NESTING RESULTS

PROJECT NAME Camp Lejeune, NC

Nest #	Date laid	Treatment code	Date hatched	Incubation time	Clutch size *	# Hatched (HN)	Survival % (HN/ H+UH)	Losses (pred., overwash)
35	7-17-84	R-W	9-22-84	68	142	117	82.39	
36	7-22-84	R-W	9-26-84	67	111	105	95.45	
37	7-22-84	W	9-30-84	71	140	127	90.71	
38	7-23-84	W	10-7-84	77	130	10	7.69	OVERWASH.
39	7-23-84	RW	9-28-84	68	125	121	96.8	
40	7-24-84	R-W	10-7-84	76	129	58	44.96	
41	7-24-84	R-W	9-30-84	69	130	117	90.	
42	7-25-84	R-W	-	-	118	-	-	WASHOUT DUE HURRICANE DIANNA
43	7-26-84	R-W	10-14-84	81	93	37	39.78	
44	7-26-84	R-W	-	-	89	-	-	OVERWASH
45	7-27-84	R-W	10-7-84	73	125	109	87.2	
46	7-28-84	R-W	10-4-84	69	143	98	68.53	
47	7-28-84	W	10-14-84	79	109	66	60.55	
48	7-29-84	R-W	10-13-84	77	115	90	78.26	
49	7-29-84	W	-	-	144	-	-	OVERWASH.
50	7-30-84	R-W	10-21-84	73	150	77	51.33	
51	7-31-84	R-W	-	-	114	-	-	OVERWASH.
52	7-5-84	R-W	10-30-84	80	63	38	61.8	
53	8-6-84	W	0	0	114	0	0	
					2284	1070		

* Clutch size determined from nest remains

NORTH CAROLINA SEA TURTLE CONSERVATION 1984
NESTING RESULTS

PROJECT NAME Camp Lejeune, N.C.

Nest #	Date laid	Treatment code	Date hatched	Incubation time	Clutch size *	# Hatched (HN)	Survival % (HN/ H+UH)	Losses (pred., overwash)
54	8-6-84	R-W	0	0	5 129	0	0	
55	8-7-84	R-W	0	0	117	0	0	
56	8-11-84	R-W	10-30-84	80	134	7	11.4%	
57	8-13-84	R-W	0	0	125	0	0	
58	8-13-84	R-W	0	0	114	0	0	
59	8-17-84	R-W	0	0	122	0	0	
60	8-22-84	R-W	0	0	76	0	0	
61	8-23-84	R-W	0	0	118	0	0	
62	8-24-84	W	0	0	98	-0	-0	wash out Due to Hurricane Diana
63	8-30-84	W	0 Never Hatch	-0	123	0	0	-
					1156	7		

* Clutch size determined from nest remains

11015/1B
NREAD
11 Dec 1984

Doctor Frank J. Schwartz
Institute of Marine Sciences
University of North Carolina
3407 Arendell Street
Morehead City, North Carolina 28557

Dear Doctor Schwartz:

Thank you for your letter of 5 December 1984 and the kind remarks you expressed relative to our sea turtle work here at Camp Lejeune. The sea turtle conservation program here could not have enjoyed the success it has received without your guidance over the years which is greatly appreciated. Hopefully, the program will be continued indefinitely into the future and have a good effect for enhancing the species.

The additional information is forwarded as you requested. The last day of nesting during the 1984 season was 30 August and the date of nest emergence was 30 October.

Sincerely,

J. I. WOOTEN
Director

Writer: C. D. Peterson, NREAD, 5003
Typist: J. Cross, 11Dec84

N[illegible]AL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION
Marine Corps Base
Camp Lejeune, North Carolina 28542

12-10-84
Date

From: Director
To: Charles 12-10-84

Please provide desired info to Dr. Schwartz as requested

Julian

THE UNIVERSITY OF NORTH CAROLINA
AT
CHAPEL HILL

Institute of Marine Sciences
919/726-6841

The University of North Carolina at Chapel Hill
3407 Arendell Street
Morehead City, North Carolina 28557

December 5, 1984

Mr. J. Wooten
Natural Resources and Environmental
Affairs Division
Marine Corps Base
Camp Lejeune, N.C. 28542

Dear Mr. Wooten,

Thanks very much for the 1984 sea turtle report. As usual it is of excellent caliber. Your group should be especially commended for the thoroughness with which you conduct sea turtle researches. Lejeune's efforts are the best and consistent in the state. I hope you will convey congratulations to Mr. Peterson and his staff for an outstanding job. Incidentally your mean overall number of eggs/nest was 122 in 1984, in keeping with observations of previous years.

Only one additional item of information, I would like is to know what was the last day for nesting as well as the last day for nest emergence in 1984? first and

Again, a job well done. Onward to 1985.

Sincerely,

Frank J. Schwartz

Frank J. Schwartz
Professor

FJS/ks

11015/1B
NREAD
10 Sep 1984

Ms. Barbara A. Schroeder
Southeast Fisheries Center
Fishery Analysis Division
National Marine Fisheries Service
75 Virginia Beach Drive
Miami, Florida 33149

Dear Ms. Schroeder:

Enclosed are completed tagging data forms for sea turtles that were tagged, and turtles that returned to nesting areas at Onslow Beach, Camp Lejeune, North Carolina during 1984. Some returns were from previous years and some were from turtles which were tagged during the 1984 nesting season. One turtle that nested had been previously tagged with number SMI-803 by the Scientific Marine Institute, Morehead City, North Carolina. This turtle nested on 26 July 1984 on the beach just south of Browns Inlet. A full report relative to tag returns and other nesting data will be forwarded to you when completed.

For any further information concerning the data submitted, please contact Mr. Charles D. Peterson, Natural Resources and Environmental Affairs Division at FTS-676-5003 or commercial (919) 451-2195.

Sincerely,

J. I. WOOTEN
Director
Natural Resources Division
By direction of the Commanding General

Blind copy to:
AC/S, FAC

Writer: C. D. Peterson, NREAD, 5003
Typist: J. Cross, 10Sep84, 5003

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) #AAR #087 / #AAR #088 Species C.C Date Encountered 6-9-84

Describe location encountered 2.8S of Risely Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line		cm		in
Carapace width straight line		cm		in
Carapace length over curve		cm	44 1/4	in
Carapace width over curve		cm	37 1/2	in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) _____

Organization Tagging Natural Resources and Environmental Affairs Division
Marine Corps Base Camp Lejeune, NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR #089 AAR 090 Species C.C Date Encountered 6-9-84

Describe location encountered 2.9 N of Risely Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)
2) Recapture of different project turtle
3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line		cm		in
Carapace width straight line		cm		in
Carapace length over curve		cm	35 1/4	in
Carapace width over curve		cm	32 1/8	in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) RETURNED 6-26-84 (NESTED)

Organization Tagging Natural Resources & Environmental Affairs Division
MARINE CORPS BASE, CAMP LEJEUNE, NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR #091 AAR #092 Species CC Date Encountered 6-12-84

Describe location encountered .8m S of Risley Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line _____ cm _____ in

Carapace width straight line _____ cm _____ in

Carapace length over curve _____ cm 43 3/4 in

Carapace width over curve _____ cm 39 1/4 in

Did turtle nest? Yes No Undetermined (circle one)

Additional remarks or data (use back if necessary) RETURNED 6-27-84 (NEST) 7-12-84 (NEST)

Organization Tagging Natural Resources & Enviromental Affairs Division
Marine Corps Base, Camp Lejeune, NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR 093 AAR 094

Species CC

Date Encountered 6-12-84

Describe location encountered 3.1 N of Risely Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line		cm		in
Carapace width straight line		cm		in
Carapace length over curve		cm	41	in
Carapace width over curve		cm	37	in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) RETURNED 6-28-84 (NEST) 7-27-84 (NEST) & 8-13-84 (NEST)

Organization Tagging Natural Resources & Environmental Affairs Division Marine Corps Base Camp Lejeune NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR #095 AAR 096 Species CC Date Encountered 6-12-84

Describe location encountered 3.4 S of Risley Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line		cm		in
Carapace width straight line		cm		in
Carapace length over curve		cm	38	in
Carapace width over curve		cm	37	in

Did turtle nest? Yes (No) Undetermined (circle one)

Additional remarks or data (use back if necessary) RETURNED 6-13-84 (NEST 6-27-84 (F.C.); 7-27-84 (NEST)

Organization Tagging Natural Resources & Enviromental Affairs Division Marine Corps Base, Camp Lejeune, NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR* 097 / AAR 098

Species CC

Date Encountered 6-13-84

Describe location encountered 3.3 N of Risky Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line	_____ cm	_____ in
Carapace width straight line	_____ cm	_____ in
Carapace length over curve	_____ cm	42 3/4 in
Carapace width over curve	_____ cm	37 1/2 in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) RETURNED 6-26-84 (NEST) 7-10-84 (NEST) 7-23-84 (NEST) 8-6-84 (NEST

Organization Tagging Natural Resources & Environmental Affairs Division MARINE CORPS BASE CAMP LEJEUNE, NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR #099 AAR #100 Species CC Date Encountered 6-15-84

Describe location encountered 1.25 of Risley Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line _____ cm _____ in

Carapace width straight line _____ cm _____ in

Carapace length over curve _____ cm 32 1/2 in

Carapace width over curve _____ cm 34 in

Did turtle nest? Yes (No) Undetermined (circle one)

Additional remarks or data (use back if necessary) RETURNED 7-26-84 (NEST)

Organization Tagging Natural Resources & Environmental Affairs Division
Marine Corps Base Camp Lejeune, NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR# 101 AAR# 102

Species CC

Date Encountered 6-16-84

Describe location encountered 3.3 N of Risky Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line		cm		in
Carapace width straight line		cm		in
Carapace length over curve		cm	47 1/2	in
Carapace width over curve		cm	34 1/8	in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) _____

Organization Tagging Natural Resources & Environmental Affairs Division, Marine Corps Base, Camp Lejeune, NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR # 103 / AAR # 104 Species CC Date Encountered 6-17-84

Describe location encountered 2.3 S of Risley Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line		cm		in
Carapace width straight line		cm		in
Carapace length over curve		cm	38	in
Carapace width over curve		cm	34	in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) _____

Organization Tagging Natural Resources & Enviromental Affairs Division
Marine Corps Base, Camp Lejeune, NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR # 105 / AAR # 106

Species CC

Date Encountered 6-22-84

Describe location encountered 2.95 S of Risky Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)
2) Recapture of different project turtle
3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line	_____ cm	_____ in
Carapace width straight line	_____ cm	_____ in
Carapace length over curve	_____ cm	37 1/2 in
Carapace width over curve	_____ cm	35 3/4 in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) RETURNED 7-4-84 (NEST) 7-16-84 (F.C.) 7-17-84 (NEST) 7-30-84 (NEST

Organization Tagging Natural Resources & Environmental Affairs Division Marine Corps Base, Camp Lejeune, NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR 107 AAR 108 Species CC Date Encountered 6-22-84

Describe location encountered 1.6 S of Risky Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line		cm		in
Carapace width straight line		cm		in
Carapace length over curve		cm	37 1/4	in
Carapace width over curve		cm	34 1/2	in

Did turtle nest? Yes (No) Undetermined (circle one)

Additional remarks or data (use back if necessary) RETURNED 6-23-84 (NEST 7-9-84 (NEST) 7-23-84 (F.C.) 8-23-84 (NEST)

Organization Tagging Natural Resources & Environmental Affairs Division Marine Corps Base Camp Lejeune, NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR # 109 / AAR # 110 Species CC Date Encountered 6-23-84

Describe location encountered 3.7 N of Risky Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line		cm		in
Carapace width straight line		cm		in
Carapace length over curve		cm	42½	in
Carapace width over curve		cm	38	in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) _____

Organization Tagging Natural Resources & Environmental Affairs Division
Marine Corps Base Camp Lejeune, NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR # 111 AAR # 112 Species CC Date Encountered 6-27-84

Describe location encountered 3.4 N of Risky Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line _____ cm _____ in

Carapace width straight line _____ cm _____ in

Carapace length over curve _____ cm 42 in

Carapace width over curve _____ cm 37 in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) _____

Organization Tagging Natural Resources + Environmental Affairs Division
Marine Corps Base Camp Lejeune, NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR# 113 / AAR# 114

Species CC

Date Encountered 6-28-84

Describe location encountered .6N of Risely Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line		cm		in
Carapace width straight line		cm		in
Carapace length over curve		cm	41 1/2	in
Carapace width over curve		cm	37 1/2	in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) RETURNED 7-28-84 (NesT)

Organization Tagging Natural Resources & Environmental Affairs Division
MARINE Corps Base Camp Lejeune NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR# 115 AAR# 116 Species CC Date Encountered 6-28-84

Describe location encountered 2.15 of Risky Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line _____ cm _____ in

Carapace width straight line _____ cm _____ in

Carapace length over curve _____ cm 39½ in

Carapace width over curve _____ cm 38 in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) _____

Organization Tagging Natural Resources & Environmental Affairs Division
Marine Corps Base Camp Lejeune, NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR # 117 AAR # 118

Species CC

Date Encountered 7-11-84

Describe location encountered .65 of Risely Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line _____ cm _____ in

Carapace width straight line _____ cm _____ in

Carapace length over curve _____ cm 41 in

Carapace width over curve _____ cm 38 1/2 in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) _____

Organization Tagging Natural Resources & Environmental Affairs Division
Marine Corps Base Camp Lejeune, NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR # 119 / AAR # 120

Species CC

Date Encountered 8-11-84

Describe location encountered 3.75 of Risely Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key)

Carapace length straight line		cm		in
Carapace width straight line		cm		in
Carapace length over curve		cm	38 1/4	in
Carapace width over curve		cm	37 1/2	in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) RETURNED 7-23-84 (C.F.C) 7-23-84 (NEST) 8-5-84 (F.C) 8-6-84 (NEST)

Organization Tagging Natural Resources & Environmental Affairs Division Marine Corps Base, Camp Lejeune, NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR# 121 AAR# 122 Species CC Date Encountered 7-15-84

Describe location encountered 1.9N of Risely Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line		cm		in
Carapace width straight line		cm		in
Carapace length over curve		cm	37½	in
Carapace width over curve		cm	35	in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) RETURNED 7-28-84 (NESTED)

Organization Tagging Natural Resources & Environmental Affairs Division
Marine Corps Base, Camp Lejeune, NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR# 123 AAR# 124

Species CC

Date Encountered 7-22-84

Describe location encountered .8N of Risely Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line		cm		in
Carapace width straight line		cm		in
Carapace length over curve		cm	39½	in
Carapace width over curve		cm	35½	in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) RETURNED 8-6-84 (F.C.)

Organization Tagging Natural Resources & Environment Affairs Division
Marine Corps Base Camp Lejeune, NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR# 125 AAR# 126 Species CC Date Encountered 7-24-84

Describe location encountered 3.3 N of Risley Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line		cm		in
Carapace width straight line		cm		in
Carapace length over curve		cm	36	in
Carapace width over curve		cm	34 1/2	in

Did turtle nest? Yes (No) Undetermined (circle one)

Additional remarks or data (use back if necessary) RETURNED 7-25-84 (NEST)

Organization Tagging Natural Resources & Environmental Affairs Division
Marine Corps Base Camp Lejeune NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR# 127 AAR# 128 Species CC Date Encountered 7-24-84

Describe location encountered OSO of Risky Pier (NESTED UNDER pier)

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line _____ cm _____ in

Carapace width straight line _____ cm _____ in

Carapace length over curve _____ cm 38 in

Carapace width over curve _____ cm 35½ in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) _____

Organization Tagging Natural Resources & Environmental Affairs Division
Marine Corps Base Camp Lejeune NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR #129 AAR 130

Species CC

Date Encountered 7-28-84

Describe location encountered 1.5 of Risky Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line _____ cm _____ in

Carapace width straight line _____ cm _____ in

Carapace length over curve _____ cm _____ in

Carapace width over curve _____ cm _____ in

Did turtle nest? Yes (No) Undetermined (circle one)

Additional remarks or data (use back if necessary) _____

Organization Tagging Natural Resources & Environmental Affairs Division
Marine Corps Base Camp Lejeune NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR" 131 AAR" 132

Species CC

Date Encountered 8-5-84

Describe location encountered .2 N of Risely Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key)

Carapace length straight line		cm		in
Carapace width straight line		cm		in
Carapace length over curve		cm	38 1/4	in
Carapace width over curve		cm	35 1/2	in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary)

Organization Tagging Natural Resources & Environmental Affairs Division
Marine Corps Base Camp Lejeune NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR 133 / AAR 134 Species CC Date Encountered 8-7-84

Describe location encountered 3.5 N of Risely Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)
2) Recapture of different project turtle
3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line		cm		in
Carapace width straight line		cm		in
Carapace length over curve		cm	37½	in
Carapace width over curve		cm	30	in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) _____

Organization Tagging Natural Resources & Environmental Affairs Division
Marine Corps Base Camp Lejeune NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR # 135 AAR # 136

Species CC

Date Encountered 8-17-84

Describe location encountered 3.9 N of Risely Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)

2) Recapture of different project turtle

3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line		cm		in
Carapace width straight line		cm		in
Carapace length over curve		cm	38½	in
Carapace width over curve		cm	35	in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) _____

Organization Tagging Natural Resources & Environmental Affairs Division
Marine Corps Base Camp Lejeune, NC 28542

COOPERATIVE MARINE TURTLE TAGGING PROGRAM
TAGGING DATA (NESTING TURTLES)

Tag Number(s) (list all tag #'s and letter prefix) AAR # 137 AAR # 138

Species CC

Date Encountered 8-22-84

Describe location encountered 2.N of Risely Pier

Circle correct answer:

"New" turtle (not carrying any tags or tag scars) (Yes) No

If no, then circle correct category:

1) Recapture of same project turtle (within season or multi-annual)
2) Recapture of different project turtle
3) Turtle has definite tag scar

Tag return address (if other than NMFS Lab/Vir Key) _____

Carapace length straight line		cm		in
Carapace width straight line		cm		in
Carapace length over curve		cm	40 1/2	in
Carapace width over curve		cm	37 1/4	in

Did turtle nest? (Yes) No Undetermined (circle one)

Additional remarks or data (use back if necessary) _____

Organization Tagging Natural Resources & Environmental Affairs Division
Marine Corps Base Camp Lejeune, NC 28542

11015/1B
NREAD
30 Aug 1984

From: Base Wildlife Manager
To: Director, Natural Resources and Environmental Affairs Division

Subj: ONSLOW BEACH SEA TURTLE SURVEYS FROM NORTH TOWER-BROWNS INLET

Ref: (a) FONECON btwn Mr. C. D. Peterson, NREAD and LtCol E. J. Cizerle of 30 Aug 1984
(b) Biological Opinion dated 10 April 1979
(c) Meeting btwn Mr. C. D. Peterson, NREAD; LtCol E. J. Cizerle, and Capt T. B. Howard of 30 Aug 1984

Encl: (1) Memorandum 11015/1b NREAD of 12 Jun 1984

1. Reference (a) involved a telephone conversation relative to Wildlife management personnel entering the danger area between Onslow Beach North Tower and Browns Inlet for the purpose of conducting survey work with seaturtles in accordance with reference (b). I described the activities involving the surveys in respect to reference (b) and entering the subject danger area when the ranges are secure. I further advised LtColonel Cizerle that the enclosure provided our last working instruction relative to entering the danger area.

2. LtColonel Cizerle requested a copy of the enclosure and after discussing the same with my immediate supervisor, Mr. J. I. Wooten, I hand carried the enclosure to him. Sea turtle surveys relative to personnel entering the danger area was fully discussed during reference (c). LtColonel Cizerle informed me that he did not consider the enclosure as being the proper authorization for personnel to enter the danger area; further, that he was interested in personnel safety from a moral and legal point of view.

3. LtColonel Cizerle questioned me about how I thought I would feel from a moral point of view if one of the employees I supervised was killed from live ordnance in the danger area. I responded that if one of my employees cleared entry through Range Training Facilities that I didn't think I would feel morally wrong due to the advisement contained in the enclosure, although I certainly did not want anyone injured.

4. During reference (c), informal and formal consultation procedures were discussed relative to survey work on Onslow Beach including the danger area in accordance with reference (b). I informed LtColonel Cizerle that the biological opinion rendered by the U. S. Fish and Wildlife Service accounted for the conditions

that existed in 1979 and 1980. Further, that not being allowed entry into the subject danger area would require re-entering into consultation with the U. S. Fish and Wildlife Service because this would be a change from what was agreed upon during the previous consultations.

5. I informed LtColonel Cizerle that I would discuss his concern about my personnel entering the danger area with Mr. J. I. Wooten, my immediate supervisor, relative to re-entering into consultation due to the present situation. I further informed him that I thought my supervisor would discuss the matter with Colonel Lilley, Assistant Chief of Staff, Facilities, in all probability.

C. D. PETERSON

Writer: C. D. Peterson, NREAD, 5003
Typist: J. Cross, 30Aug84, 5003

11015/1b
NREAD
29 June 1984

Ms. Melinda Welton
Endangered Species Project Leader
North Carolina Wildlife Resources Commission
145 Rosedale Circle
Winston Salem, North Carolina 27106

Dear Ms. Welton:

Enclosed is a stranding report relative to a dead Sea Turtle recently stranded at Onslow Beach, Marine Corps Base, Camp Lejeune, North Carolina. If additional information is required, please contact Mr. C. D. Peterson, Natural Resources and Environmental Affairs Division at (919) 451-2195.

Sincerely,

C. D. PETERSON
Acting Director

Writer: C. D. Peterson, NREAD, 5003
Typist: J. V. Cross, 29Jun84, 5003

SEA TURTLE STRANDING AND SALVAGE OBSERVATION REPORT

MAKE ALL MEASUREMENTS OVER THE CURVE AND DOWN THE MIDLINE OF THE TURTLE. MEASURE THE LONGEST LENGTH. THAT IS, FROM THE CERVICAL SCUTE NEAR THE NECK, TO THE TIP OF THE MARGINAL SCUTE (SEE DIAGRAM). BE SURE TO CIRCLE THE UNITS OF MEASUREMENTS (IN = INCHES AND CM = CENTIMETERS). MEASURE THE CARPACE WIDTH OVER THE CURVE AT THE WIDEST PORTION OF THE SHELL. AGAIN, CIRCLE THE PROPER UNITS. THE DIAGRAM PROVIDED, MAY BE USED TO DRAW OR OTHERWISE MARK WOUNDS OR MUTILATIONS FOUND ON THE STRANDED SPECIMEN AND TO MARK TAG LOCATIONS.

PRINT CLEARLY!

OBSERVER'S FULL NAME Sam Folger Poole DATE 8 4 0 6 2 2 (y y m m d d)

TURTLE NUMBER BY DAY 1 STATE N. C. COORDINATOR'S INITIALS C D P

SPECIES CODE C C RELIABILITY OF I.D. 2 SEX U VERIFIED BY COORDINATOR? Y/N

LATITUDE _ _ - _ _ _ N LONGITUDE _ - _ _ _ _ W DESCRIPTION OF LOCATION 1.6(S)

Risley's Pier

CURVED CARAPACE LENGTH 22 1/2 " . CM/(IN) CURVED CARAPACE WIDTH 9" . CM/(IN)

CONDITION OF ANIMAL 3 WAS ANIMAL SPRAY PAINTED? Y/(N)

TAG. NO. No Tags DISPOSITION OF TAG & INFO —

IF MORE THAN ONE TAG IS PRESENT, PLACE THE TAG NUMBER(S) IN THE REMARKS SECTION.

FINAL DISPOSITION OF CARCASS 2 IF 3, WHERE SENT —

REMARKS: 1-2 yr. old - decomposing, buried 1 yd above high tide. Front flippers, head, part of back flippers and tail - missing.

CODES

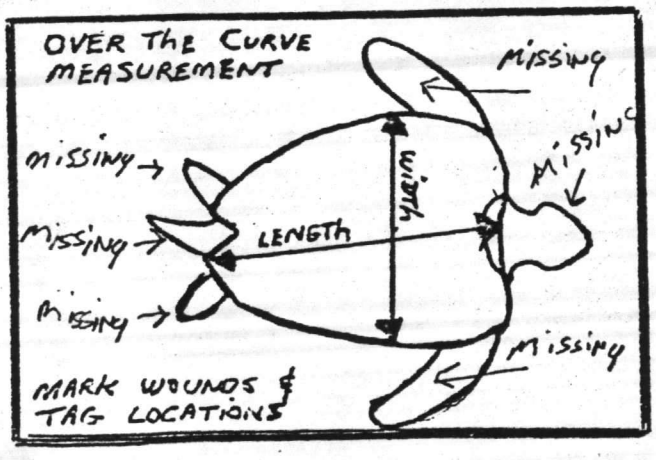
SPECIES: (CC) = Loggerhead
CM = green
LK = Kemp's ridley
DC = leatherback
EI = hawksbill
UK = unknown

SEX: F = female
M = male
(U) = unknown

RELIABILITY OF I.D.: 1 = unsure
(2) = probable
3 = sure
(if species is unknown, then reliability must be 3)

CONDITION OF ANIMAL: 0 = alive
1 = fresh
2 = brewing
(3) = el stinko (soupy, foul)
4 = mummy (falling apart)
5 = skeleton

FINAL DISPOSITION OF CARCASS:
1 = painted, left on beach
(2) = buried on beach
3 = salvaged specimen
4 = pulled up on dune
5 = partially salvaged, left on beach or buried



30 Jan 84

UNITED STATES MARINE CORPS
Marine Corps Base
Camp Lejeune, North Carolina 28542

NREAD/CDP/jc
11015/1b
2 Feb 1984

From: Assistant Chief of Staff, Facilities
To: Assistant Chief of Staff, Training

Subj: Sea Turtle Aerial Survey; coordination of

1. The Natural Resources and Environmental Affairs Division has implemented plans for conducting aerial surveys for threatened sea turtles during the 1984 nesting season. Contractual procedures for the flights have been implemented through the Contracting Division, Assistant Chief of Staff, Logistics.

2. Flight dates for the 1984 nesting season are:

May 25, 29 and 31

June 5, 7, 12, 14, 19, 21, 26 and 28

July 3, 6, 11, 13, 17, 20, 24, 27 and 31

August 3, 7, 9, 14, 17, 21, 23, 28 and 30

3. The contractor will be required to complete each flight between sunrise and 0800. Flights must not exceed one hour. Aircraft must fly at an air speed of 60 knots at 150 feet except for the built-up area at Onslow Beach, and maintain direct contact with the Range Control Officer on the North Carolina Commercial Fisheries Radio Frequency 119.5. The contractor will also be required to meet with Base Training and Natural Resources personnel prior to conducting the flights.

4. It is requested that clearance for air space between New River and Brown's Inlet be granted for the above listed dates. Further information concerning the flights can be provided by contacting Mr. Julian Wooten, Director, Natural Resources and Environmental Affairs Division, extensions 5003/2195.

M. G. LILLEY