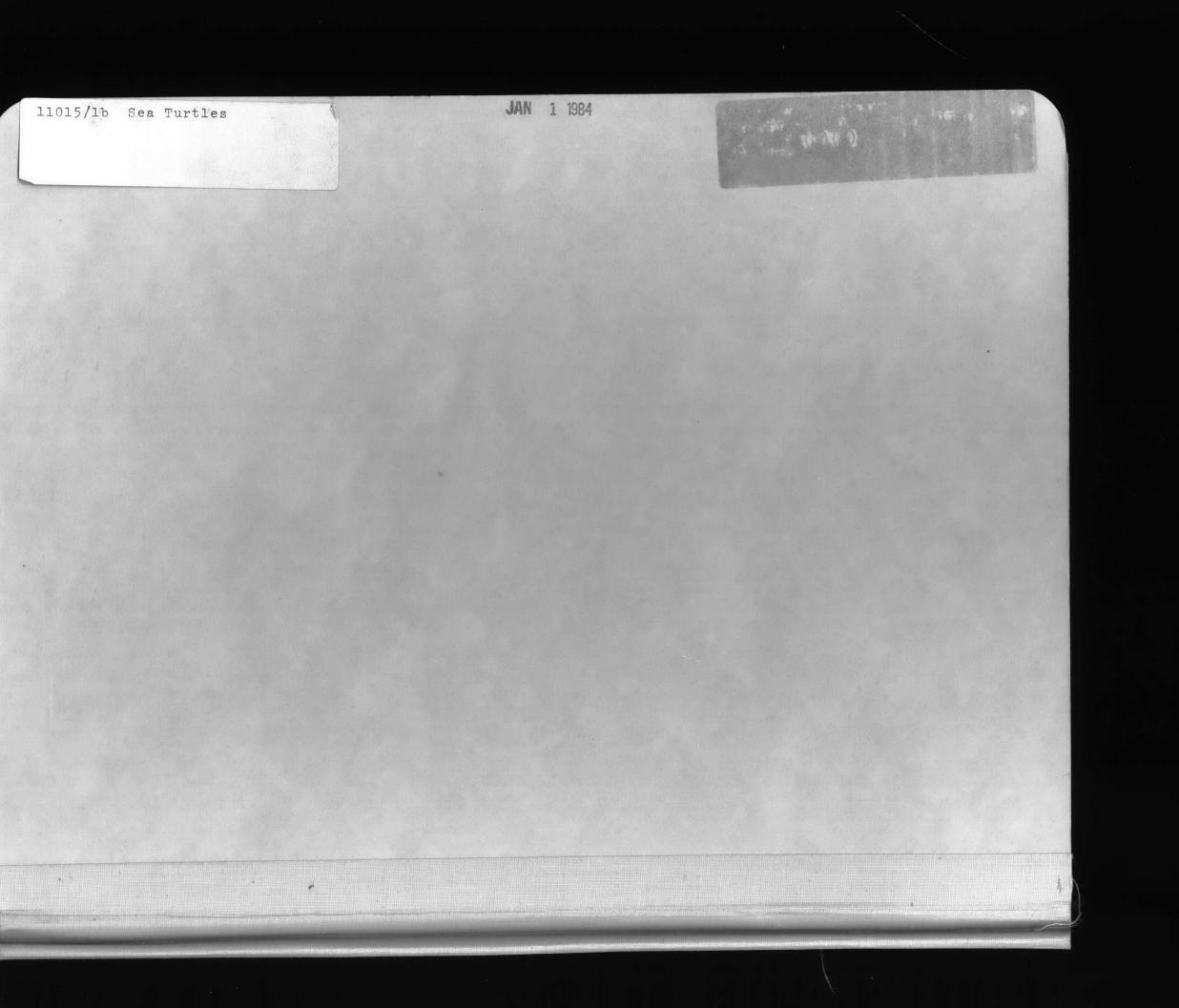
FILE FOLDER

DESCRIPTION ON TAB:

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Doo he

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

JULIAN I. WOOTEN DIRECTOR

CHARLES D. PETERSON SUPERVISORY WILDLIFE MANAGER

SAM F. POOLE WILDLIFE BIOLOGIST

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STEVEN PRICE BIOLOGICAL TECHNICIAN

DR. FRANK B. SCHWARTZ
ADVISOR, INSTITUTE OF
MARINE SCIENCE
MOREHEAD CITY, NORTH CAROLINA

Beach map Mission

Locations of

FC of crowns

Missing.

From This

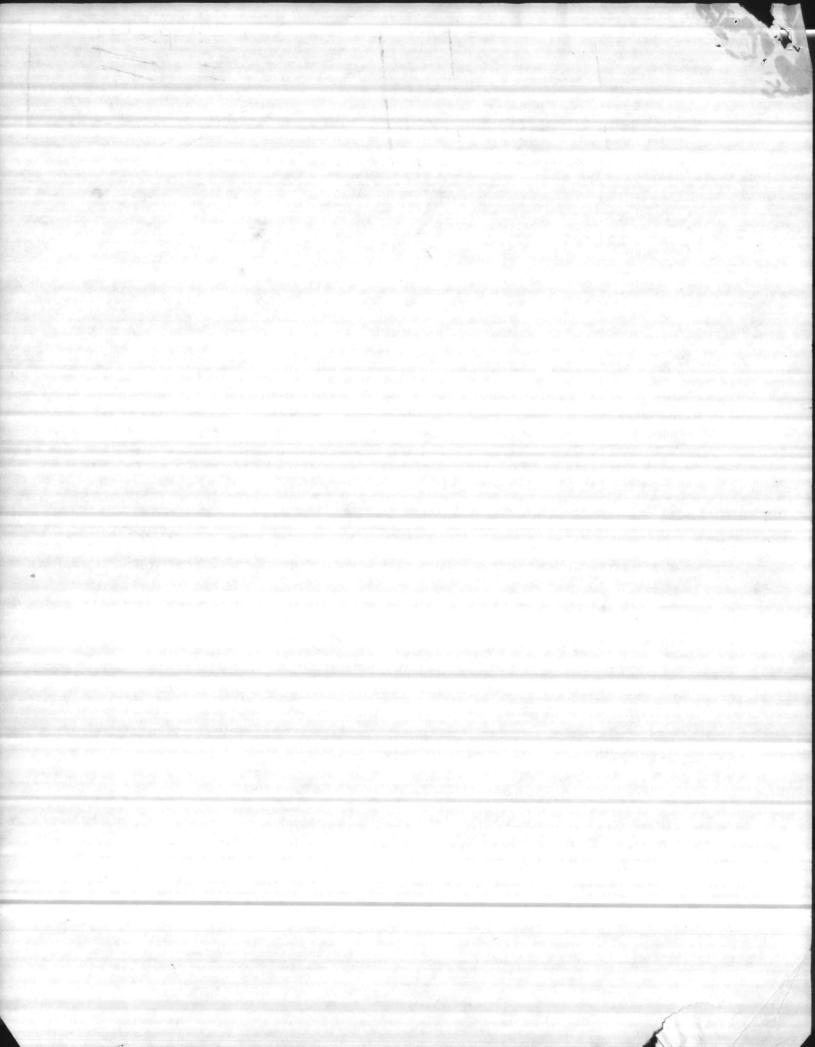
MAP = 1984

Charles

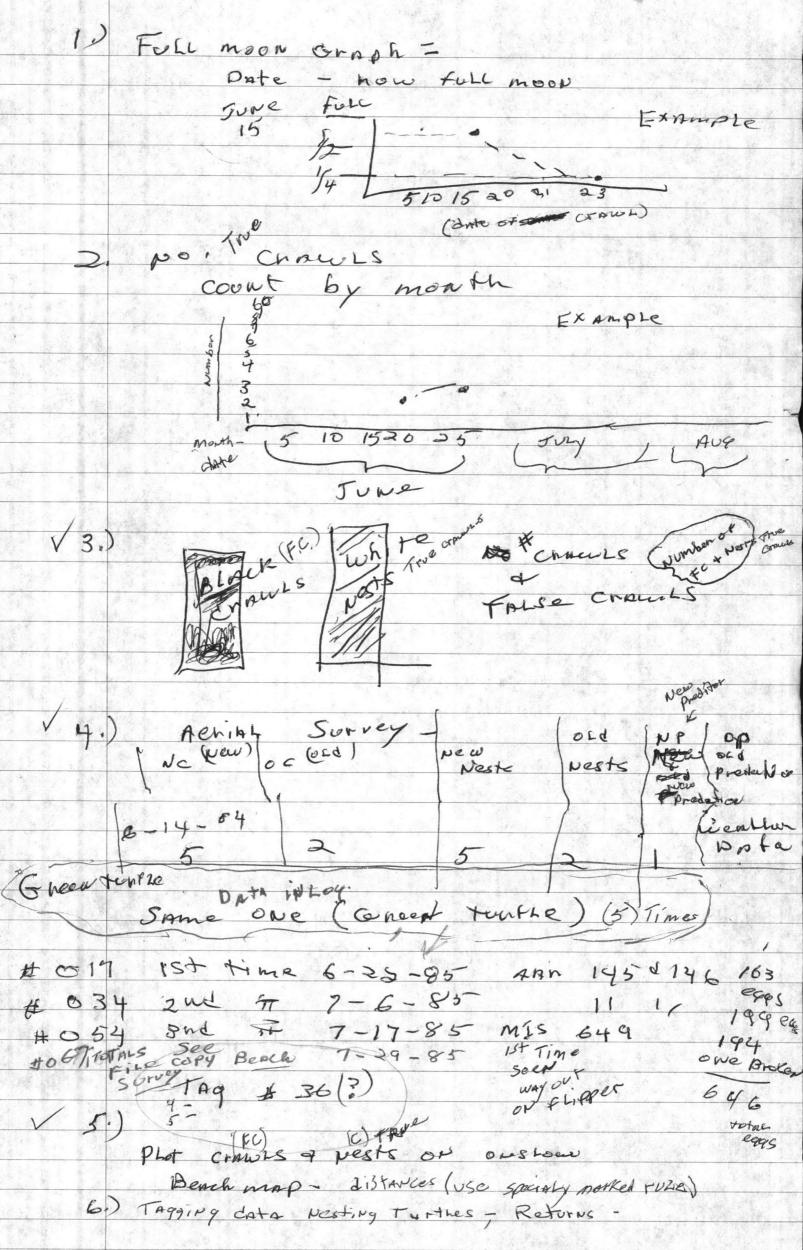
Soil period of 18 of

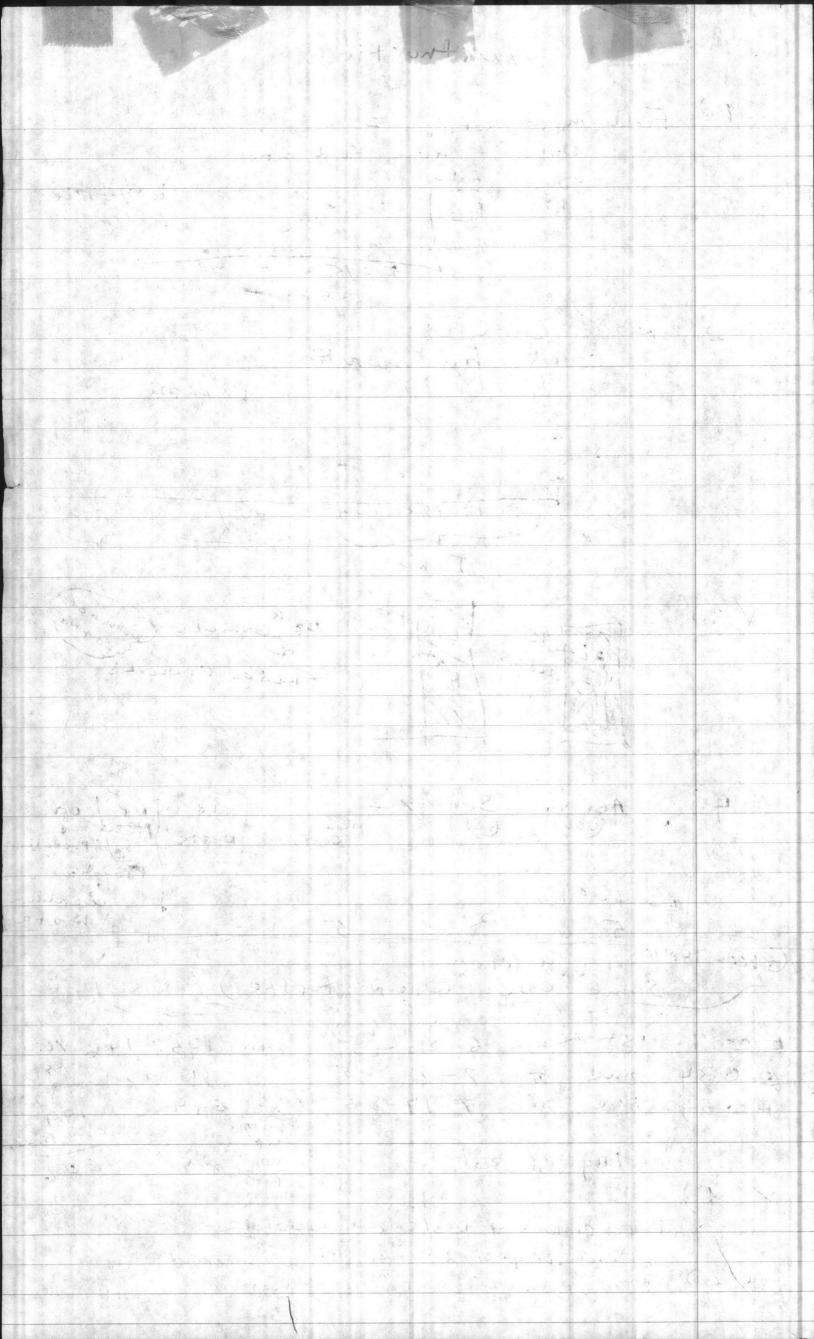
Notice of 18 of 18 of

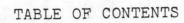
Soil period of 18 of



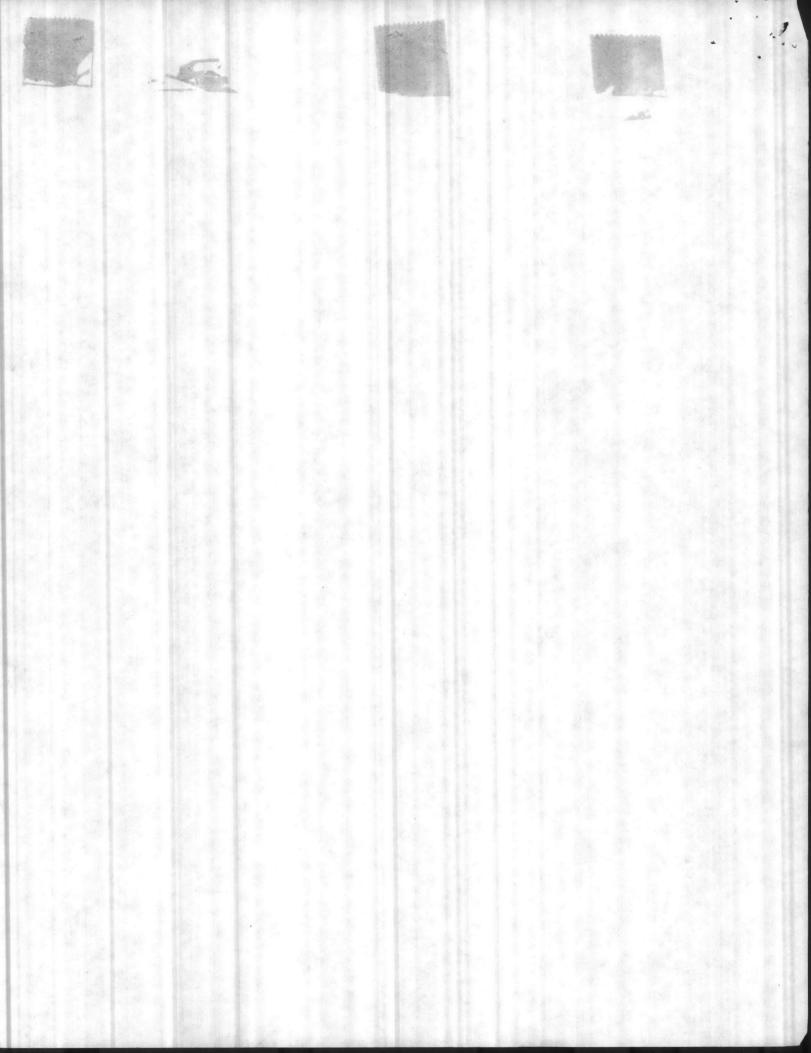
instructions







	Introduction
/	Sea Turtle Inventory (Crawl Data) - Table I
1	Return Record of Tagged Turtles - Table II
10-10-0	Crawl Information in Relation to Moon and Tidal Cycles and Weather Conditions - Table III .
/	Ground Survey Numbers - Table IV
10-10-1	Aerial Survey - Table V
V	Nest Crawl Activity



INTRODUCTION

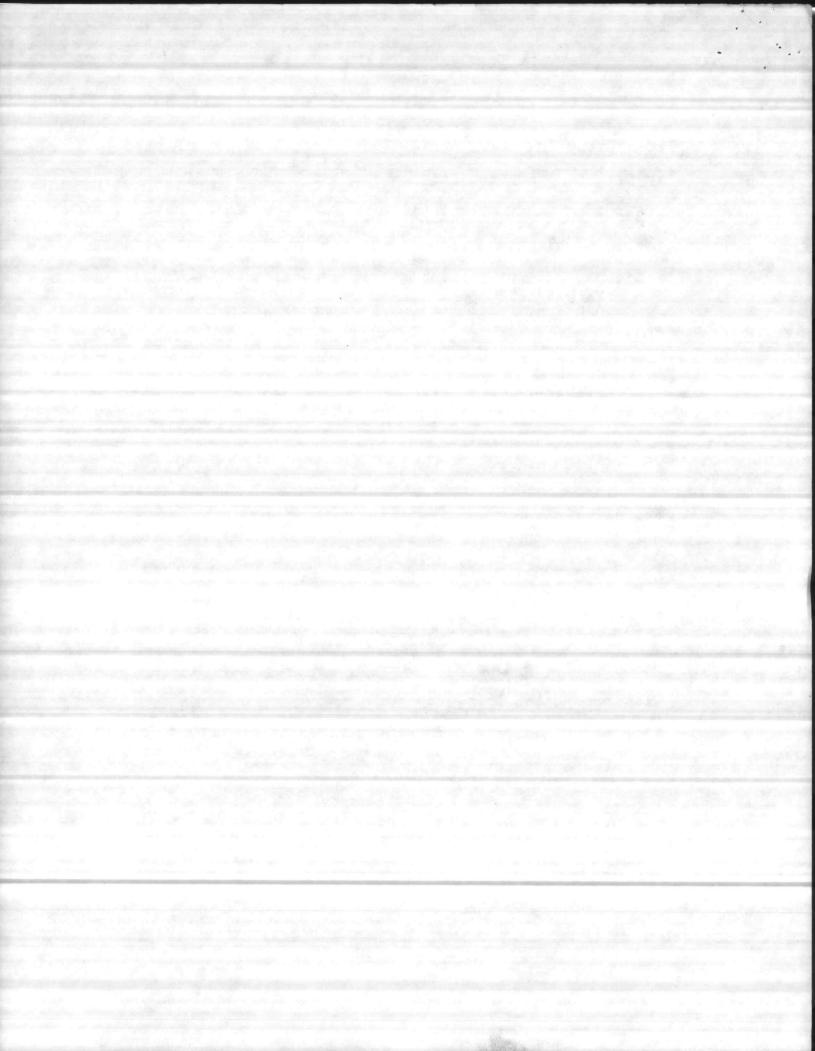
The sea turtle inventory for 1984 is a continuation of past efforts by Natural Resources and Environmental Affairs Division, Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune, North Carolina, to protect sea turtle nesting activities at Onslow Beach. The sea turtle inventory consists 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 _____.

 Tag return data may be reviewed in Table II, page _____.
 - c. Nesting data Number of nests 63.
 - d. Total number of crawls 121 .
 - e. Total number of eggs $\frac{7,788}{}$.
 - f. Total number of hatchlings 4,484.



- G. Number of tag returns 30.
- #. Marker of stranded turtles 4.
- i. Muriter of nests lost during Hurricane Diana 2.
- - i. Number unhatched nests from unknown causes 5.

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

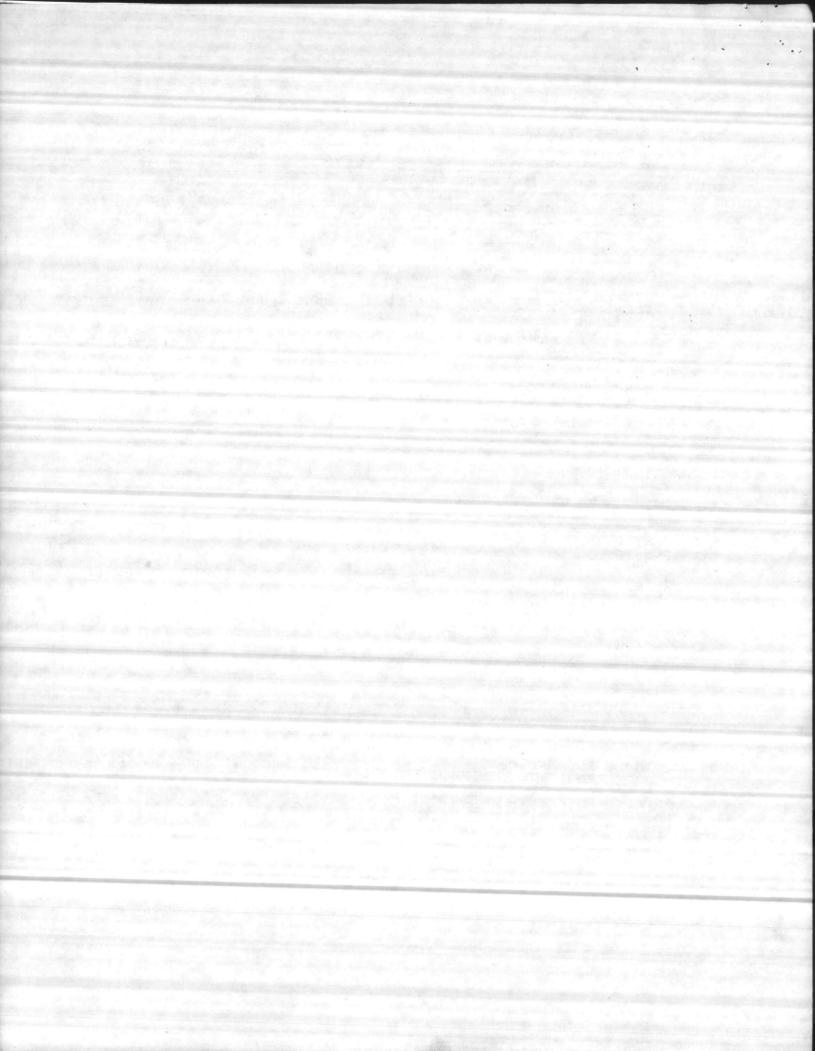
Remoent hatchling success is ___57%; nesting and crawl data is compiled in Tables I, II, III, IV, and V, and Graphs I and II on pages ___5 through __19 . The enclosed maps indicate locations of turtle activity on Onslow Beach.

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

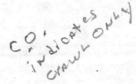
The Marine Corps Base, Camp Lejeune and Natural Resources and Environmental Affairs Division give special thanks to Doctor F. J. Schwartz at the Institute of Marine Science, Morehead City for his advice and services.

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.

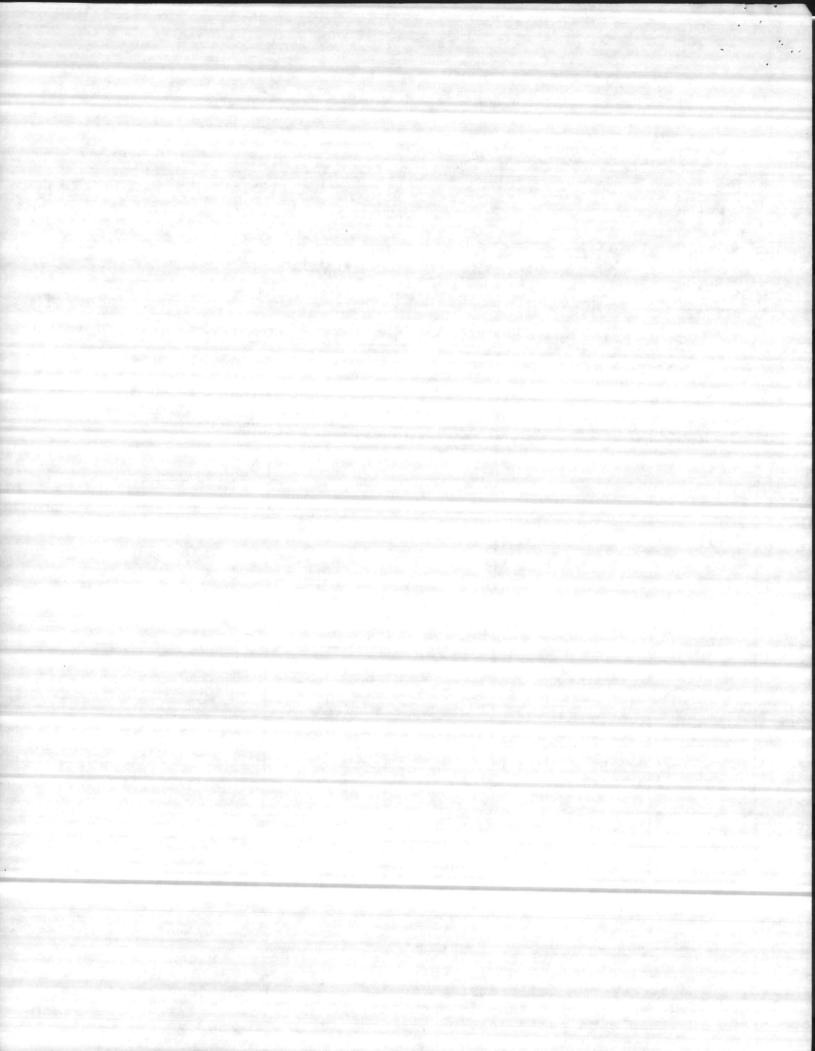


Marine Corps Base Camp Lejeune, North Carolina



wl	Date	Time Crawl Cccurred	Active Nest	Location*	Comments
1	5-23-8-	0800-1130		-7N	C.O. (indicates Crawl Only
2	5-28-	·0200	У	2.45	Relocated to dunes 4 yds up. 143 eggs.
3	6-4-84	0900-1030	Х	2.45	Relocated to dunes 4 yds up. 13 yds.S. 133 eggs.
1;	6-7-87	2109-0500		3.1N	c.o.
5	6-7-8-	0300	χ	2.58	Relocated from .5S up 3 yds. 148 eggs.
ć	[2100-0500		3.4N	c.o.
-	6-9-8-	2300	Х	2.85	Eggs 71 Tags AAR087, 088
8	6-9-3-	0248	Х	2.9N	Tags AAR 089, 090 Eggs 61
9.	€-9-8-	2100-2300		6S	c.o.
ე .	6-11-84	2100-0500		2.98	c.o.
1	6-11-84	2100-0500		2.0N	c.o.
2	6-12-8-	2230	Х .	2.85	Rel. From .8S. Tags AAR 091, 092. Eggs 115
3	6-12-84	0030	Х	3.1N	Eggs 137 Tags AAR 093, 094
Lį	6-12-84	2100-0500		3.45	Tags AAR 095, 096
5	6-13-84	1300-1530	10 - 100 - 1	3.15	c.o. '
£ :	6-13-81	2100-0500		3.3N ···	c.o.
7	6-13-81	2230	Х	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	6-19-84	2100-0500		.8s	c.o.
0	6-15-84	0010		1.25S	Tag AAR 099, 100
1	6-15-84	0020		1.48	c.o.
2	6-15-84	0040		1.85	Tag S.M.I. 803

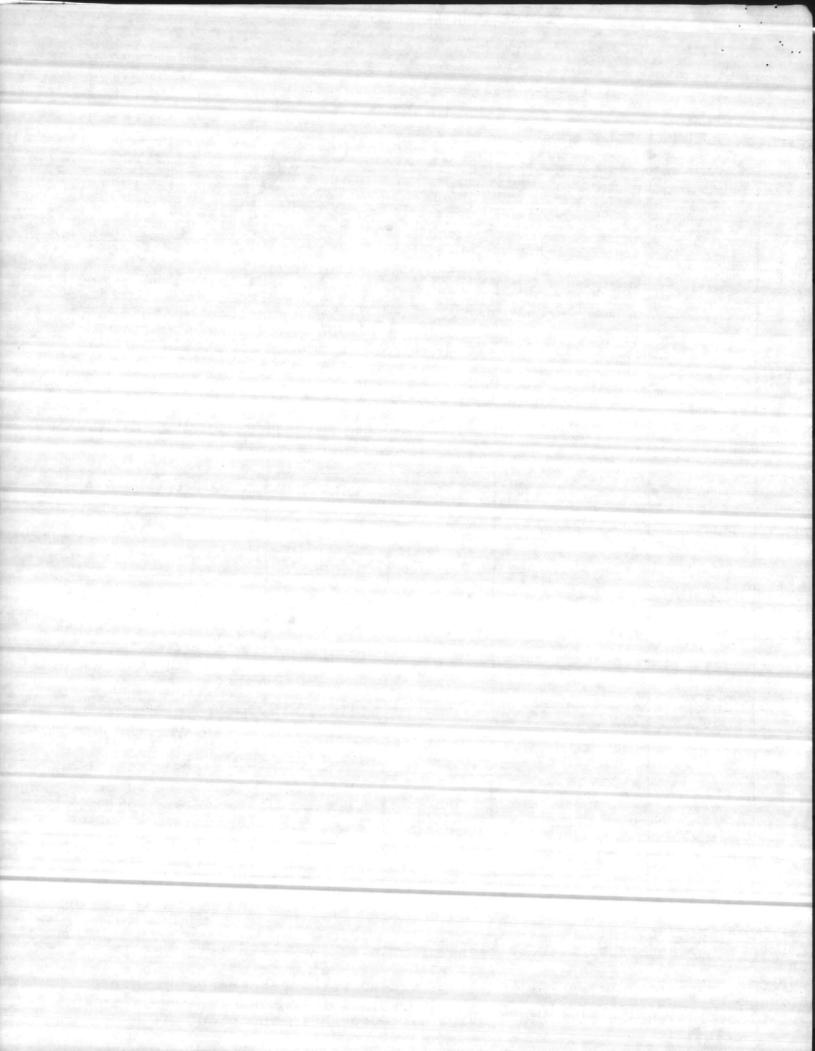
^{*} Location measured to nearest tenth of mile to the north or south of Risely er. Record known or estimated time when crawl was made or thought to have curred. Conduct surveys daily during regular working hours 0800-1630, aveling by four wheel drive vehicle when the tide is low. Traverse the beach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



Marine Corps Base Camp Lejeune, North Carolina

wl	Date `	Time Crawl Cocurred	Active Nest	Location*	Comments
:	f-1(-i-	2300	, X	3.3N	Tag AAR 101,102. Eggs 15 Relocated to dunes.
_	X_17_51	2300	χ	2.35	Tag AAR 103, 104. Eggs Relocated to dunes.
=	4_:T_8_	0400		3.N	c.o.
<	£_97_8_	0330	Χ	4.N	Relocated to dune. Eggs 138.
	4_11_4_	2200	X	2.9N	Relocated to dune. Eggs . Tag AAR 105, 106
		2-15	40 P (MR)	1.65	Tag AAR 107, 108
	4-37-8-	2225	У.	3.45	Return Tag AAR 107, 108 Eggs 131.
	6-30-84	0135	Х	3.7N	Tags AAR 109, 110 Eggs 139
	6-26-34	2330	χ	3.411	Return Tag 089, 090 Eggs 121
	6-26-84	0020	Х	2.0N	Return Tag AAR 097, 098 Eggs 152. Relocated f/1
3	£7:475A	0115		2.6s	Return Tag AAR 095, 096
	4_14_9_	0120		3.05	c.o.
	हमद्रहमें <u>ह</u> म	0355		1.85	c.o.
5	6-27-84	2130	Х	3.4N	Tag AAR 111, 112. Eggs Relocated to dunes.
7	6-27-84	2330		1.8N	Return Tag AAR 093, 094
	6-27-84	2345	Х	.2N	Ret. Tag 091,092. Eggs 1
2	6-27-84	0100		2.98	Return Tag AAR 095, 096
) .	6-27-84	0340	Х	3.75S	Relocated from 3.6S. Re Tag AAR095.096. Eggs 13
L	6-28-84	2345	χ	.6N	Relocated to dune. Ret Tag AAR093.094. Eggs 1
2	6-28-84	2345	X	.6N	Relocated to dune. Tag
3	6-28-84	0100	x	2.18	Tags AAR 115, 116.

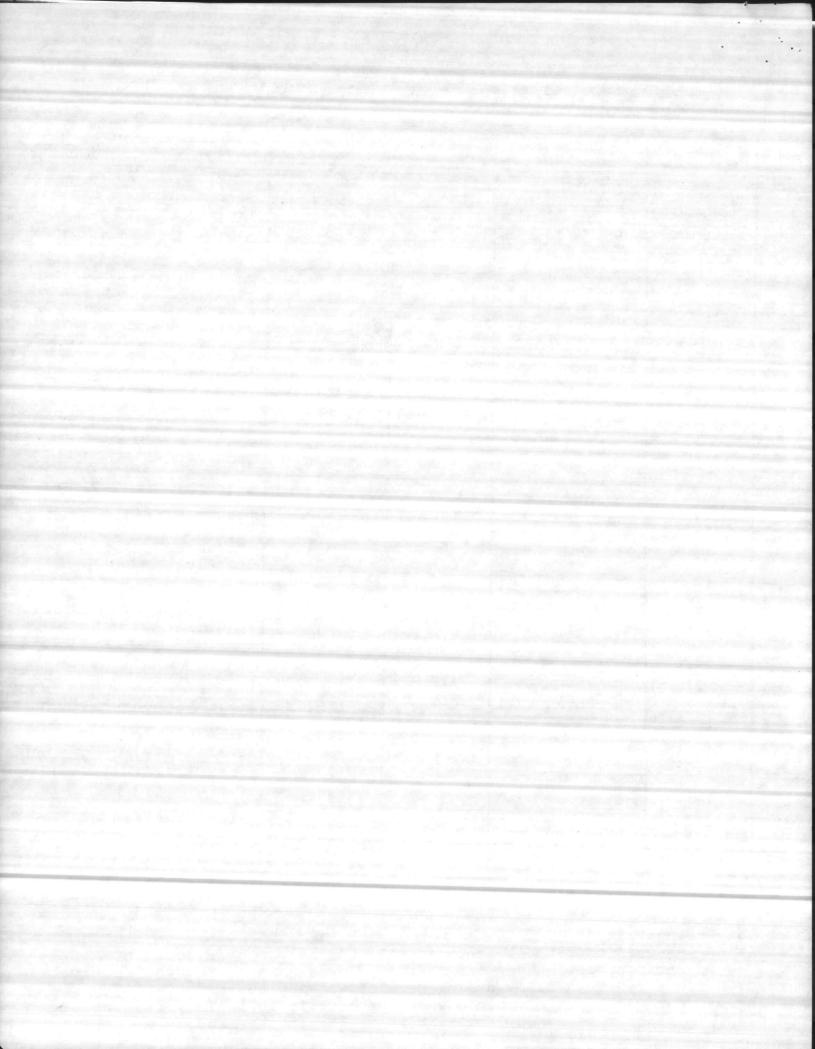
^{*} Location measured to nearest tenth of mile to the north or south of Risely er. Record known or estimated time when crawl was made or thought to have curred. Conduct surveys daily during regular working hours 0800-1630, aveling by four wheel drive vehicle when the tide is low. Traverse the beach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



Marine Corps Base Camp Lejeune, North Carolina

awl	Date	Time Crawl Cccurred	Active Nest	Location*	Comments
	6-28-84	0130		2.25	C.O.
<u>-</u> 5	6-28-84	.0130		2.38	c.o.
46	6-28-84	0135		3.18	C.O.
47	6-28-84	0225		.78	·C.·O.·
48	6-29-84	2330		3.6N	C.O.
- 9	€-29-8-	23-0		3.8N	c.o.
50	€-23-8-	0.040		1.6N	C.O.
51	6-29-84	2355		.38	C.O.
52	6-30-64	0240	Х	2.1N	Helocated from 2.48 Eggs 131
53 .	7-1-84	0030	х	2.18	Relocated from 3.3S Eggs 159
54	7-4-84	2300	X	1.58	Return Tags AAR 105, 106 Eggs 144
55	7-5-84	2230	Х	2.3N	Eggs 161
56	7-9-84	0100		1.18	C.O.
57	7-9-84	0300	X	1.0N	Return Tag AAR 107, 108. Eggs 122
58	7-10-84	2307			C.O.
59 .	7-10-84	C200	Х	3.2N	Relocated to dunes. Eggs 126. Tag AAR 097, 098.
50	7-21-84	2230	X	.2N	Tag AAR 117, 118. Reloca from .6S. Eggs 157
51 .	7-11-84	0020	Х	3.75	Tag AAR 119,120. Relocat to dune 25m.N10M. Eggs 1
52	7-11-84	0310		2.25	Return Tag AAR 091, 092.
53	7-12-84	0043	. x	2.08	Return Tag AAR 091, 092. Eggs 131
54	7-12-84	0120		3.78	c.o.
55	7-15-84	2130	х	1.9N	Relocated 10m(S) to dune Tag AAR 121,122. Eggs 11

^{*} Location measured to nearest tenth of mile to the north or south of Risely ler. 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 lood plane in vehicle to avoid leaving tire tracks in the sand.

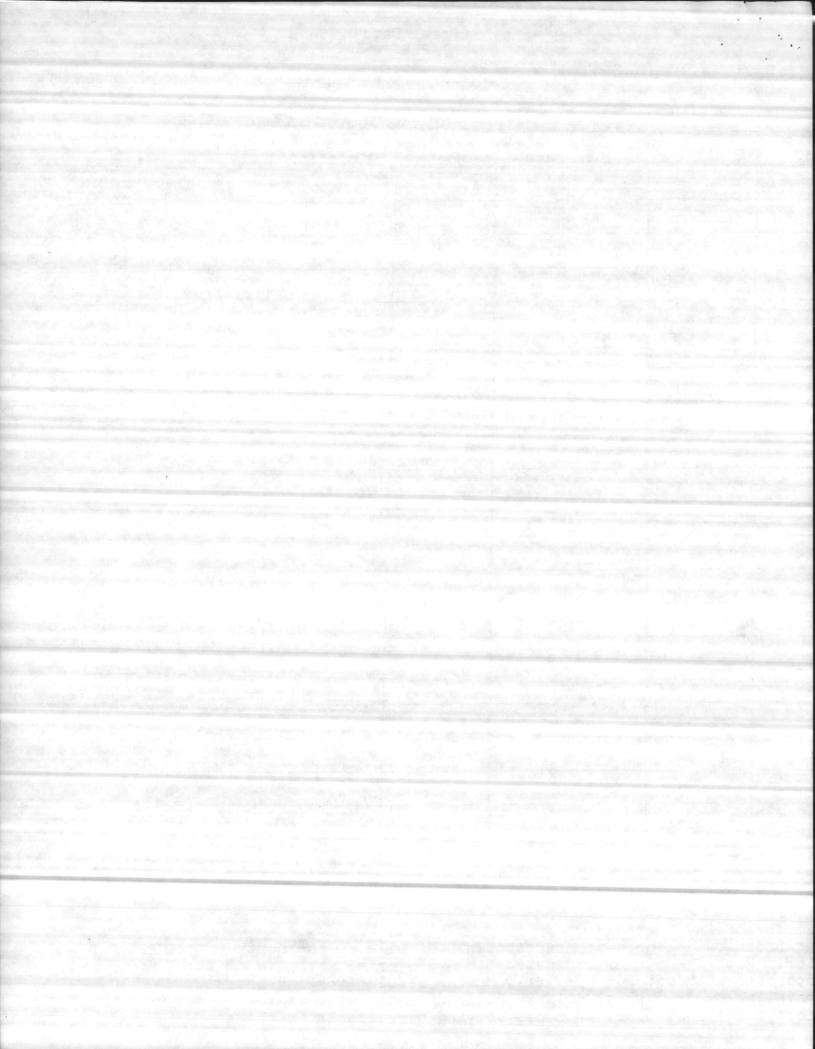


(Crawl Data) TABLE I

Marine Corps Base Camp Lejeune, North Carolina

wl	Date '	Time Crawl Occurred	Active Nest	Location*	Comments
ć	7-16-84	2350		1.8N	Return Tag AAR 105,106.
7	7-16-84	0310		3.4N	Return Tag AAR 105, 106
9	19#	2215	· · · · X · · · · ·	2.9N	AAR 105,106. Eggs 142.
9	t422-84	0312	Х	8N	Rel.to Ocean side of Dur Tag AAR 123,124, Eggs 1
:					
:	7-13-14	2130 .	X	2.4N	Epes - 140.
2	-23-8-	2330	У.	. 3.2N	Return Tag AAR 097, 098.
3	7-23-8-	0030		·: .ln ···	Return Tag AAR 107, 108
	7-23-82	0050		3.15	Return Tag AAR 119,120.
5	7-23-84	0228		2.95	c.o.
ć	7-23-84	0335	. x	3.1s	Relocated to Dune. Returning AAR 119,120. Eggs 12
	7-28-	2320		3.3N	C.O. Tag AAR 125, 126.
:	7-284	0022	Χ	67M.N	Rel.from under Risely Prag AAR127,128. Eggs 120
9	7-284	0120	Х	8N	Eggs 130.
	7-25-8-	0057	X	3.6s	Return Tag AAR 125,126 Rel to dune. Eggs 118
1	7-26-84	2200	X	.lN	Relocated from .6S.Retu Tag AAR 099,100. Eggs
2	7-26-84	2255 .		3.2N	c.o.
3 .	7-26-84	0130	X	3.5N	Tag S.M.I. 803. Relocato Dune. Eggs 89.
	7-26-84	0230		2.65	0.0.
5	7-27-34	0110		2.3N	d.o
E	7-27-84	0126	χ	.7N	Relocated to dune. Retu

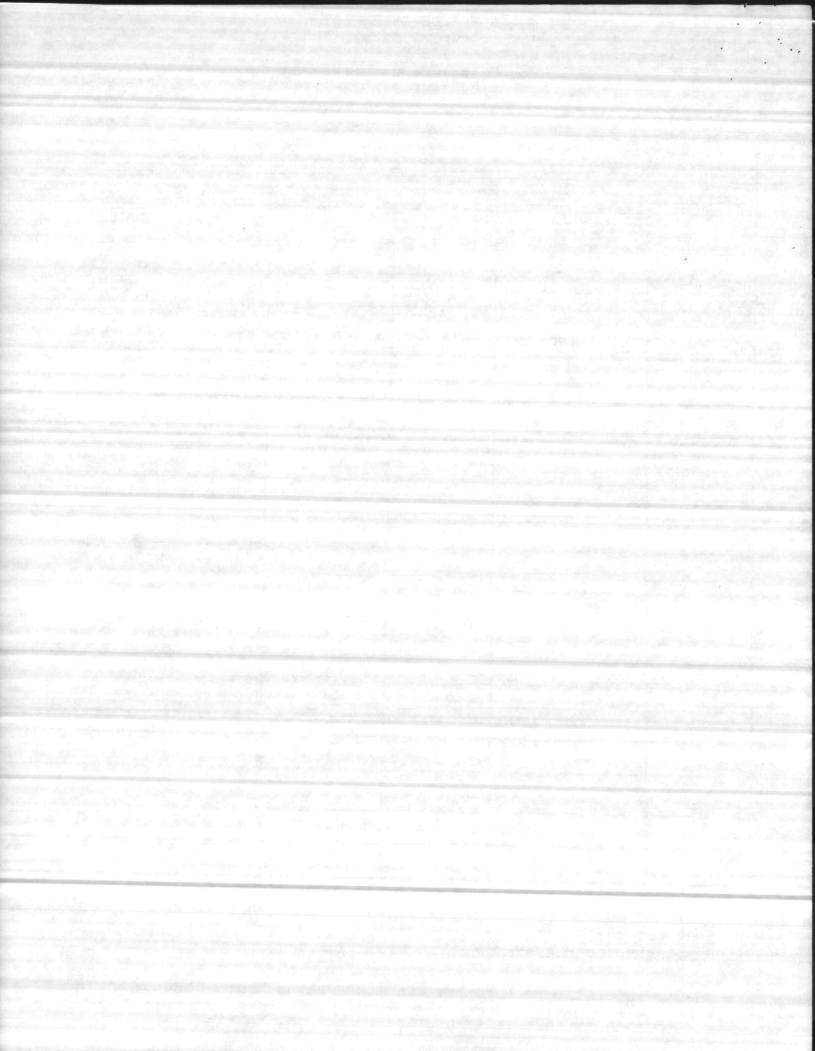
^{*} Location measured to nearest tenth of mile to the north or south of Risely ler. Record known or estimated time when crawl was made or thought to have courred. Conduct surveys daily during regular working hours 0800-1630, raveling by four wheel drive vehicle when the tide is low. Traverse the beach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



Marine Corps Base Camp Lejeune, North Carolina

awl	Date .	Time Crawl Cccurred	Active Nest	Location*	Comments
	7-18-81	1134			Return Tag AAR 129, 130.
S 8	7-28-84	1145	· X · · · ·	3.38	Relocated 5MN to Dunes. Ret.Tag AAR113,114.Eggs1
<u> </u>	2 9 4	0258	у,	1.5N	Ret. Tag AAR 121, 122. Eggs 109.
on	5c_6#	2150	X	Contract of the second	Relocated to Dune.
21	::_:_	353U	Υ		Eggs 144. C.O.
: 5	::_	2330		2.9N	c.o.
2.7	55.F	0010	Х	6N	Relocated to Dunes. Returned AAR 105,.06. Eggs 15
C L	91_91	0230	X	1.95N	Relocated from 1.1S. Eggs 114.
C F.	F_=_E4	2151	X	.2N	Relocated to Dune. Tag AAR 131, 132. Eggs 63.
c6 ·	8-5-84	0200		2.85	Return Tag AAR 119, 120.
c 7	8-5-34	0330		*~	c.o.
98	8-6-8-	2300	100	1.7N	Return Tag AAR 123, 124.
59	8-6-84	2341		3.3N	c.o.
00	8-6-84	0115	X	3.2N	Return Tag AAR 097, 098. Eggs 114.
02	8-6-84	0230	Х	3.2N	Relocated from 2.9S. Ret Fag AAR 119,120. Eggs 12
02 .	9_7_94	0320	Х .	3.5N	Relocated to Dune. Tag AAR 133,134. Eggs 117.
03	8-12-84	2110	χ	2.0N	8-11-84. Eggs 134.Rel.t
C4	8-12-84	2145		3.1N	c.o.
05	8-12-84	2300		2.05	c.o.
05	8-12-84	0047		3.05	c.o.
07	8-12-84	0055		3.18	c.o.

immary 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 courred. 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.



Marine Corps Base Camp Lejeune, North Carolina

wl	Date	Time Crawl Occurred	Active Nest	Location*	Comments
<u>:</u>	8-12-8-	0123		1.0N	c.o.
5	8-12-84	0220		6N	C.O. (Eggs 125
	8-13-8-	2127	Χ.,	2.0N	turn Tag AAR 093.094.
1	8-13-84	0115	Χ	1.8N	C.O. Relocated from 1.7S. Eggs 114.
2	:-17-i-	2305	X.	3.9N	Relocated to Dune. Tag AAR 135,136. Eggs 122.
:	8-21-8-	0126	10.00	3.58	c.o.
_	8-22-8-	2140		1.98	c.o.
5	8-22-8-	0050		2.3N	c.o.
ć	8-22-84	0140		2.45	c.o.
7	8-22-8-	0150	Х	2.0N	AAR 137,138. Eggs 76.
.8	8-23-54	2150		3.1N	C.O.
O,	8-23-8-	2310	X	.2N	Tag AAR 107,108. Eggs 11
3	8-284	2300	Х	3.7S	C.O. Eggs 98.
ı Ţ	8_30_34	2100/0500	χ	3.2N	C.O. Eggs 133.

^{*} 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, avaling by four wheel drive vehicle when the tide is low. Traverse the beach cod plane in vehicle to avoid leaving tire tracks in the sand.

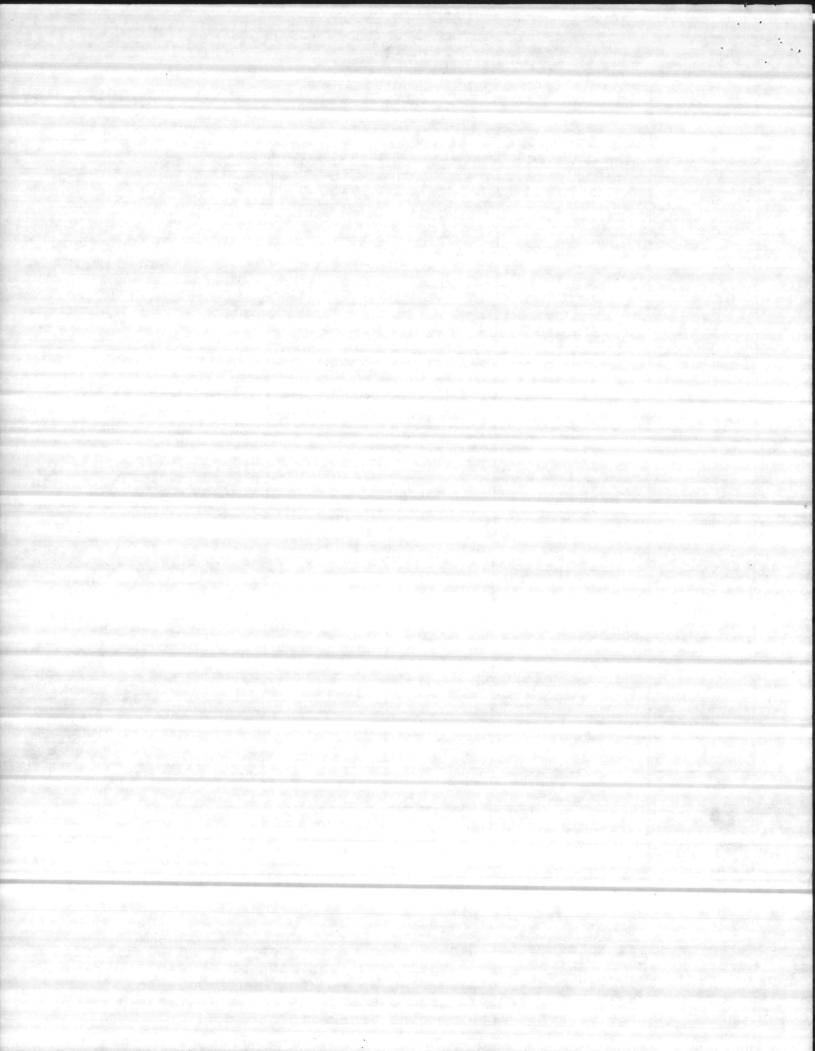


TABLE II

RETURN RECORD OF TAGGED TURTLES
1984 SEA TURTLE INVENTORY

Date <u>Tassed</u>	Tag <u>Number</u>	Return	Return	Return	Return
6-9-82 (2)	AAR 087, 088				
6-9-85 (2)	AAR 089, 090	6-26-84 (2)			
6-12-84 (2)	AAR 091, 092	6-27-84 (2)	7-12-84 (2)		
6-12-3- (2)	AAR 093, 094	6-28-84 (2)	7-27-84 (2)	8-13-84 (2)	
6-12-8- (1)	AAR 095, 096	6-13-84 (2)	6-27-84 (1)	7-27-84 (2)	
6-13-8- (2)	AAR 097, 098	6-26-84 (2)	7-10-84 (2)	7-23-84 (2)	8-6-84 (2)
6-15-8- (1)	AAR 099, 100	7-26-84 (2)			
6-16-84 (2)	AAR 101, 102				
6-17-34 (2)	AAR 103, 104	(
6-22-34 (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			2100	
7-11-84 (2)	AAR 117, 118				
7-11-54 (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)			
7-22-54 (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				
8-5-24 (2)	AAR 131, 132				
8-7-84 (2)	AAR 133, 134				
Contract to the second of the second of		Marie and American State of the			

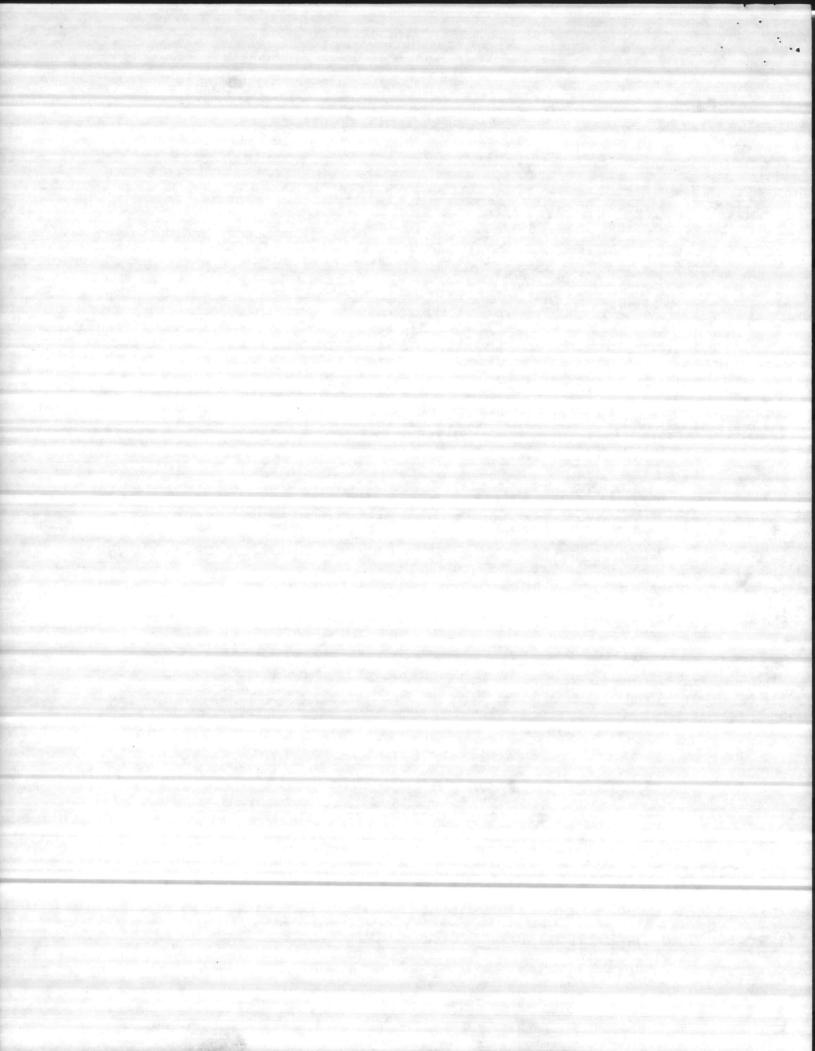


TABLE II (Cont'd)

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

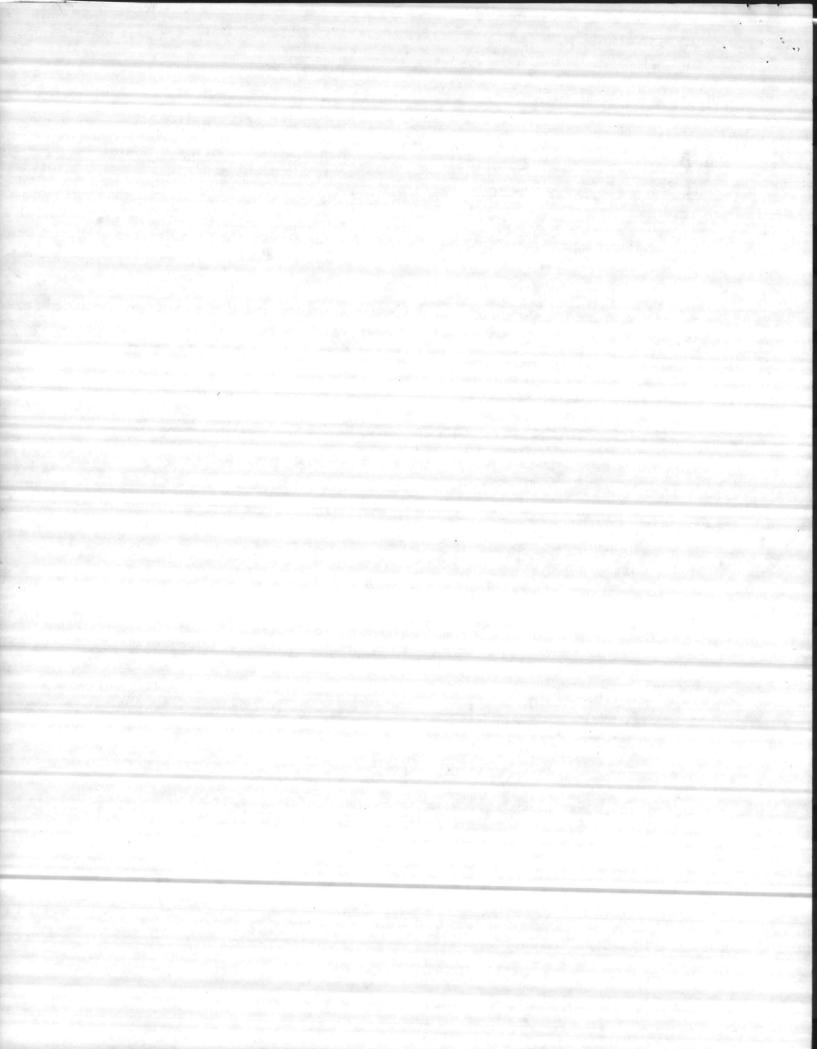


TABLE III

CRAWL INFORMATION IN RELATION TO MOON AND TIDAL CYCLES

ate	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	2300	3
-11-84	1838 - 92%	1905	2100-0500		2
-12-84	1945 - 97%	1955	2100-0500	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	2
-26-84	0346 - 11%	1839	0115-0355 0120	2330	5
-27-84	0426 - 05%	1923	2330	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

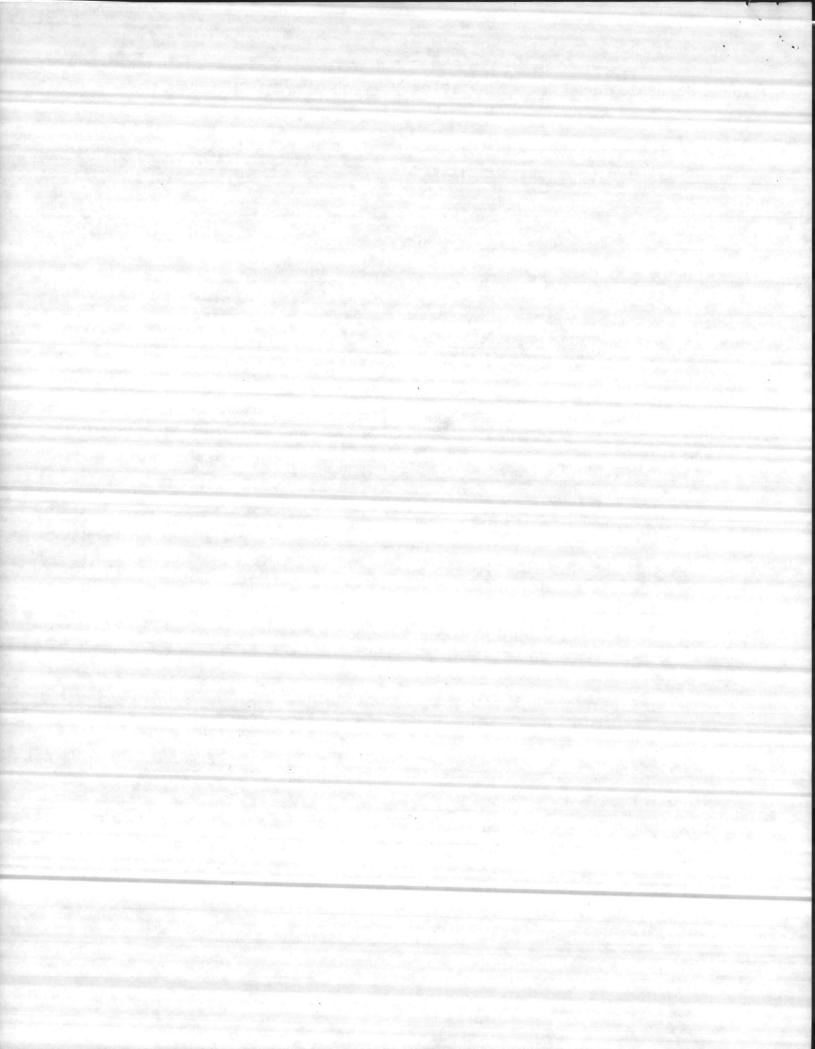


TABLE III

CRAWL INFORMATION IN RELATION TO MOON AND TIDAL CYCLES

Moon Rise % Illumin.	Time of High Tide	Time Crawl W/O Nest	Time Crawl W/Nest	Total Crawls
1838 - 90%	0114	2307	0200	2
1938 - 95%	1940	0310	2230 0020	3_
2031 - 99%	2024	0120	0043	2
2230 - 96%	2227		2130	1
2300 - 92%	2306	0310		2
2326 - 86%	2344		2215	1
0110 - 42%	0344		0312	1
.0141 - 32%	1622	0030 0227	2330	6
0218 - 23%	1716	2320	0120	3
0303 - 15%	0630		0057	1
0356 - 08%	1759	0230	0130	4
0458 - 03%	1949	0110	0126	2
0507 - 00%	2038	1134	0258	3
0607 - 01%	2129	2330	2330	3
0834 - 03%	2117		0010	1
0946 - 09%	2307		0230	1_
1526 - 60%	0403	0330	2151	3
1631 - 70%	0509	2300 2341	0230	4
1732 - 79%	0607		0320	· 1
2101 - 100%	2122	2300 0055 0220	2110	. 7
2129 - 98%	2159		0115	2
2310 - 76%	2422		2305	1
- 38%	0405	0126		1
0141 - 28%	2311			4
	% Illumin. 1838 - 90% 1938 - 95% 2031 - 99% 2230 - 96% 2300 - 92% 2326 - 86% 0110 - 42% 0141 - 32% 0218 - 23% 0303 - 15% 0356 - 08% 0458 - 03% 0507 - 00% 0607 - 01% 0834 - 03% 0946 - 09% 1526 - 60% 1631 - 70% 1732 - 79% 2101 - 100% 2129 - 98% 2310 - 76% - 38%	# Illumin. High Tide 1838 - 90% 0114 1938 - 95% 1940 2031 - 99% 2024 2230 - 96% 2227 2300 - 92% 2306 2326 - 86% 2344 0110 - 42% 0344 '0141 - 32% 1622 0218 - 23% 1716 0303 - 15% 0630 0356 - 08% 1759 0458 - 03% 1949 0507 - 00% 2038 0607 - 01% 2129 0834 - 03% 2117 0946 - 09% 2307 1526 - 60% 0403 1631 - 70% 0509 1732 - 79% 0607 2101 - 100% 2122 2129 - 98% 2159 2310 - 76% 2422 - 38% 0405	# Illumin. High Tide W/O Nest 1838 - 90% 0114 2307 1938 - 95% 1940 0310 2031 - 99% 2024 0120 2230 - 96% 2227 2300 - 92% 2306 0310 2326 - 86% 2344 0110 - 42% 0344 0110 - 42% 0630 0218 - 23% 1716 2320 0303 - 15% 0630 0356 - 08% 1759 0230 0458 - 03% 1949 0110 0507 - 00% 2038 1134 0607 - 01% 2129 2330 0834 - 03% 2117 0946 - 09% 2307 1526 - 60% 0403 0330 2300 1631 - 70% 0509 2341 1732 - 79% 0607 2101 - 100% 2122 2300 0055 0220 2129 - 98% 2159 2310 - 76% 2422 - 38% 0405 0126 20120	# Illumin. High Tide W/O Nest W/Nest 1838 - 90% 0114 2307 0200 1938 - 95% 1940 0310 0020 2031 - 99% 2024 0120 0043 2230 - 96% 2227 2130 2300 - 92% 2306 0310 2326 - 86% 2344 2215 0110 - 42% 0344 0312 0141 - 32% 1622 0050 2330 0218 - 23% 1716 2320 0120 0303 - 15% 0630 0057 0356 - 08% 1759 0230 0130 0458 - 03% 1949 0110 0126 0507 - 00% 2038 1134 0258 0607 - 01% 2129 2330 2330 0834 - 03% 2117 0010 0946 - 09% 2307 0230 1526 - 60% 0403 0330 2151 1631 - 70% 0509 2341 0230 210 - 100% 2122 2300 0055 0220 2110 2129 - 98% 2159 0115 2210 - 76% 2422 2305 0426 - 76% 2422 2305 0426 - 76% 2422 2305 0420 0220 0216 - 227 2200 0217 0020 0220 2110 0220 2120 0330 2151 0330 2151 0330 2151 0330 2151 0330 2151 0330 2151 0330 2151 0330 2300 0315 - 76% 2422 2305

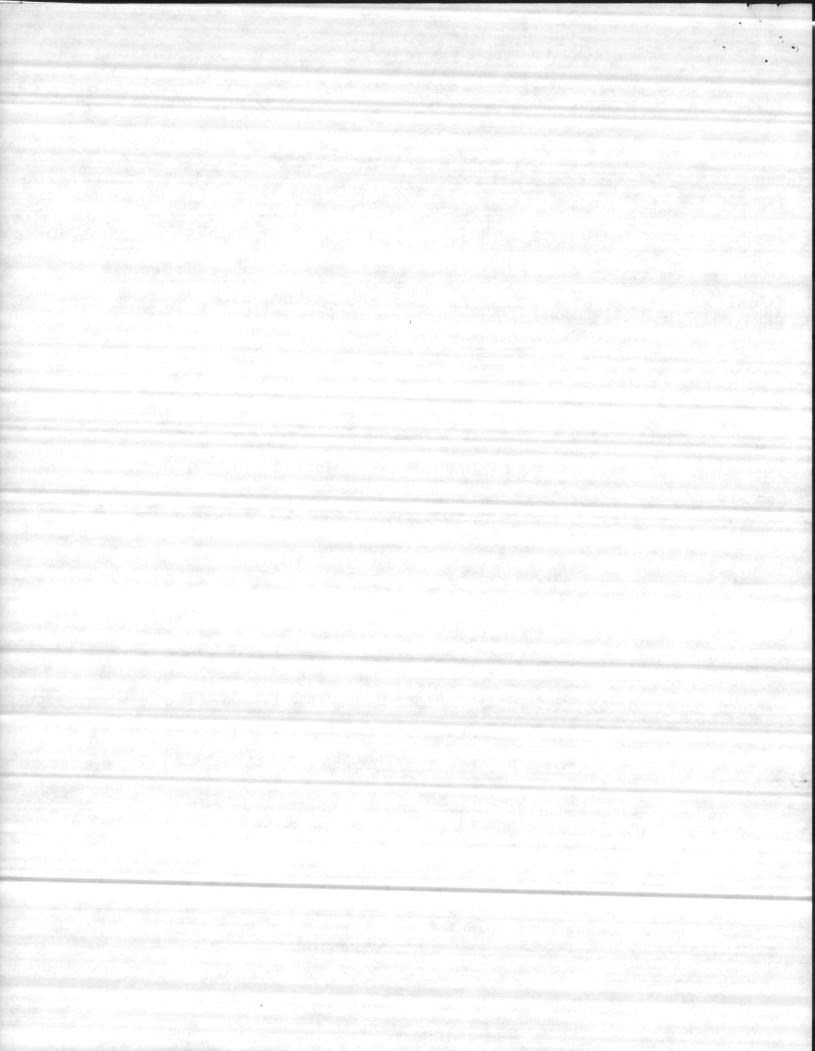


TABLE III

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	0238 - 19%	1742	2120	2310	2
-24-84 .	0343 - 11%	1839	· ·	2300	1
-30-84	1000 - 15%	2342		2100/0500	1
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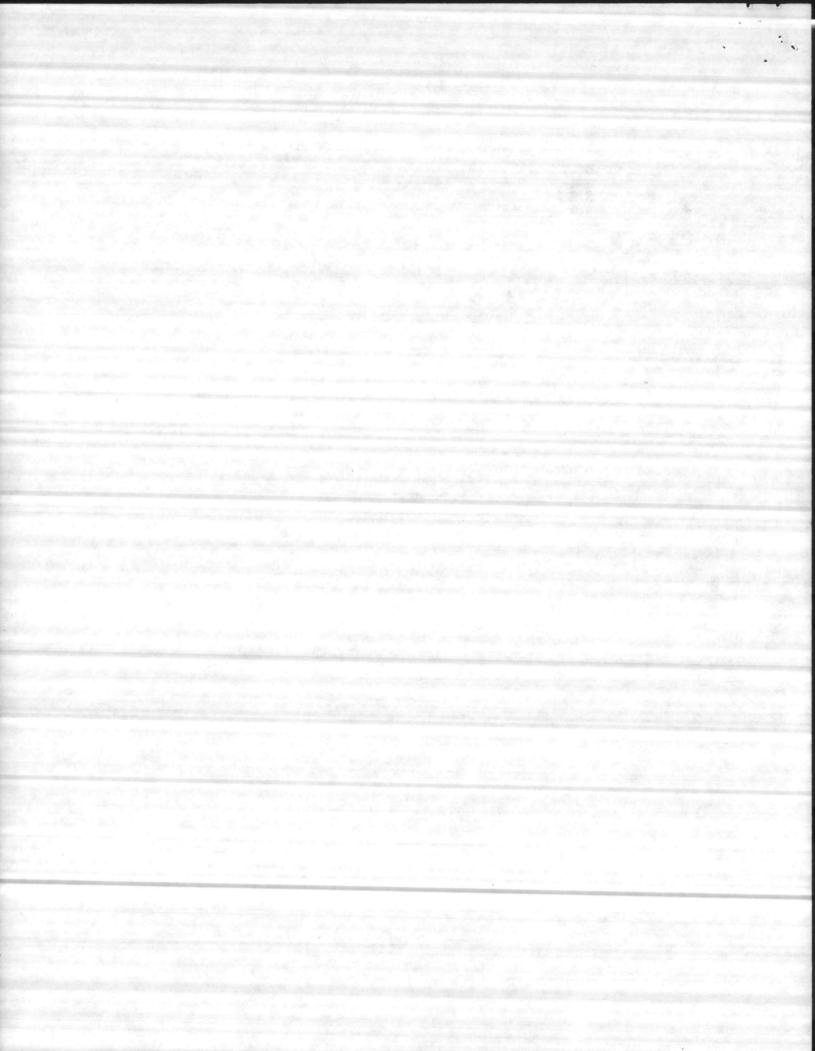


TABLE IV

GROUND SURVEY NUMBER

(Nights not separated at Midnight)

Date	Crawls/No Nest	<u>Crawls/Nest</u>	Total
6-4-84 6-5-84 6-6-84 6-7-84 6-8-84 6-10-84 6-11-84 6-11-84 6-11-84 6-12-84 6-13-84 6-13-84 6-17-84 6-17-84 6-18-84 6-18-84 6-19-84 6-21-84 6-21-84 6-22-84 6-22-84 6-22-84 6-22-84 6-23-84 6-23-84 6-23-84 6-23-84 6-23-84 6-23-84 6-23-84 6-23-84 6-23-84 6-23-84 6-26-84 6-26-84 6-27-84 6-28-84 6-28-84 6-29-84 6-20-84 6-20-84 6-21-84 6-31-84	1 0 0 0 0 1 1 0 2 1 3 0 3 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 1 0 2 0 0 0 1 1 0 0 0 0 1 1 2 0 0 0 2 3 3 3 0 0	200113023503120002220055731
7-1-84 7-2-84 7-3-84 7-4-84 7-5-84 7-6-84 7-7-8-84 7-9-84 7-10-84 7-11-84 7-12-84 7-13-84 7-14-84 7-15-84 7-16-84 7-17-84 7-18-84 7-19-84	0 0 0 0 0 0 0 0 0 1 1 1 0 0 0 0	1 0 0 1 1 0 0 0 1 1 0 0 0	1 0 0 1 0 0 0 2 2 3 2 0 0 1 2 1 0 0

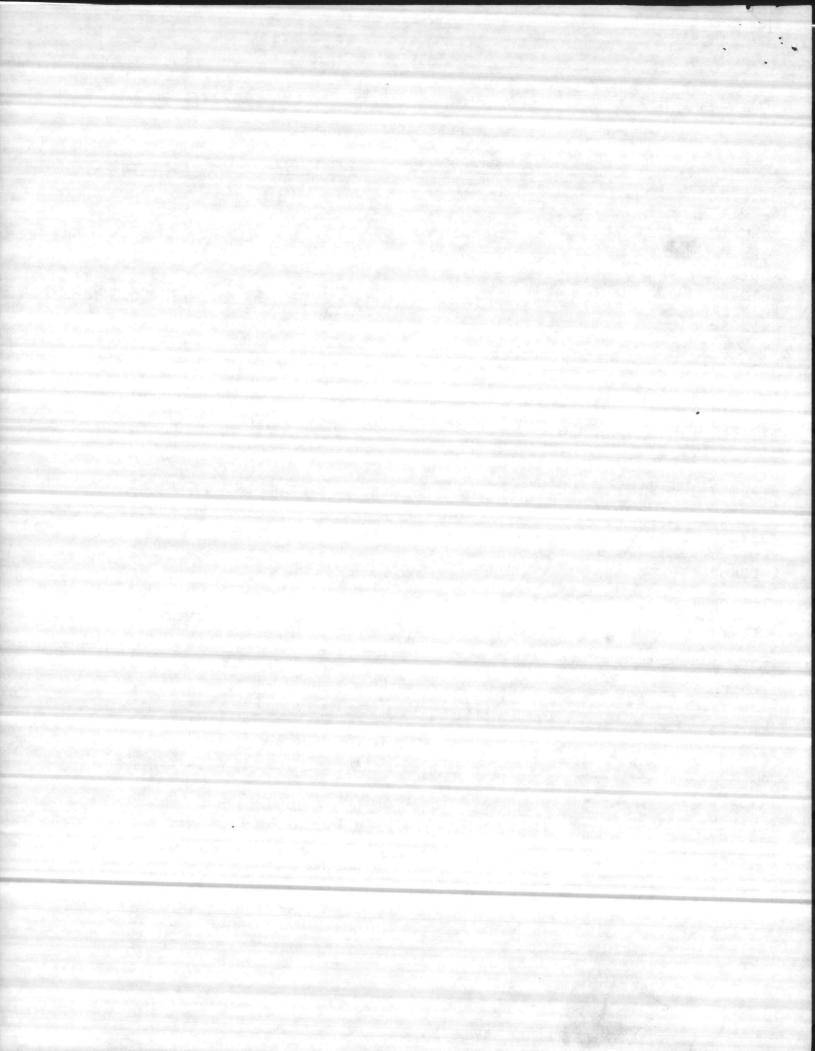
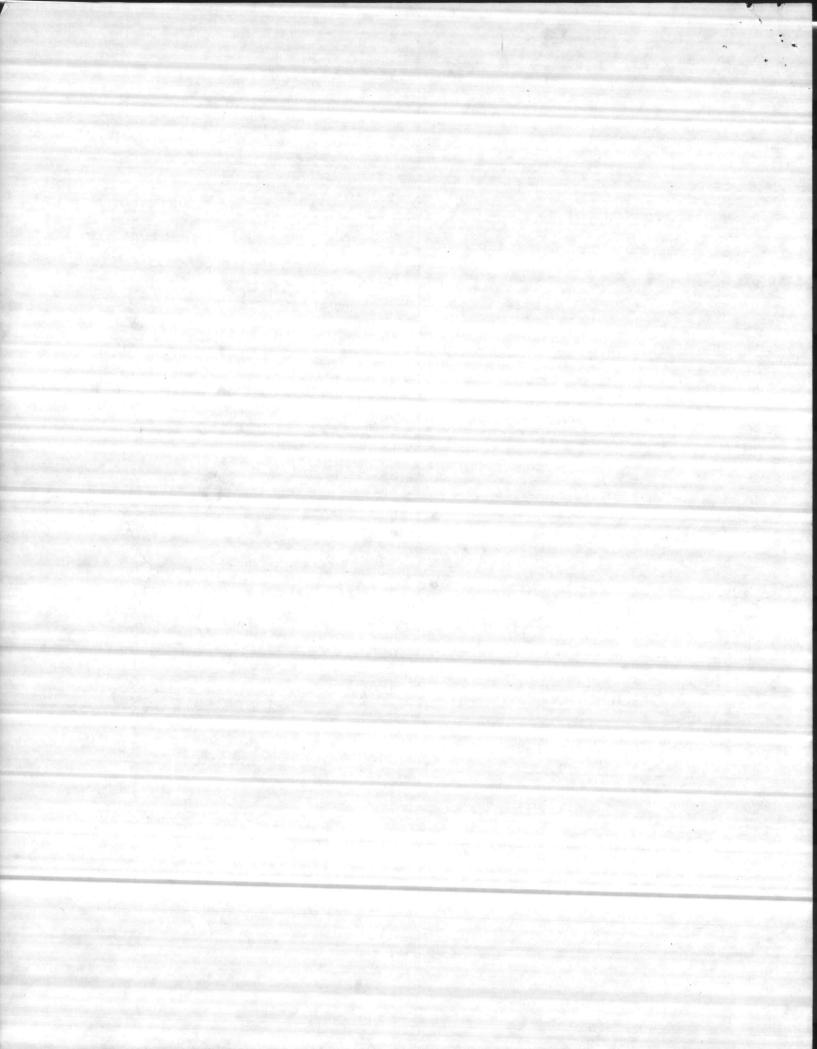
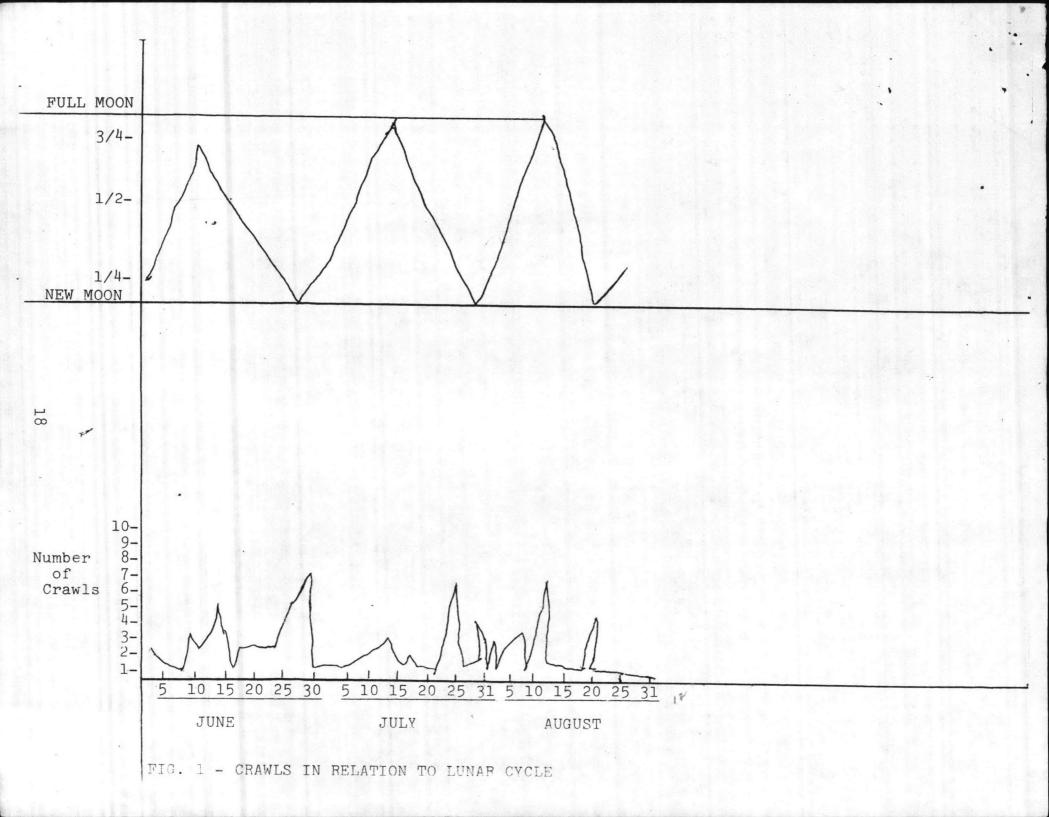


TABLE IV (cont'd)

Date	Crawls/No Nest	Crawls/Nest	Total
7-20-84 7-21-84 7-22-84 7-23-84 7-24-84 7-25-84 7-26-84 7-27-84 7-28-84 7-29-84 7-30-84 7-31-84	0 0 0 3 1 0 2 1 1 1 0	0 0 1 3 2 1 2 1 2 2	0 0 16 3 1 4 2 3 3 1
8-1-84 8-2-84 8-3-84 8-4-84 8-5-84 8-6-84 8-7-84 8-8-84 8-11-84 8-11-84 8-11-84 8-11-84 8-11-84 8-12-84 8-13-84 8-14-84 8-15-84 8-16-84 8-19-84 8-20-84 8-21-84 8-	000000000000000000000000000000000000000	0 0 0 0 1 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0	00003410000720001000014210000010





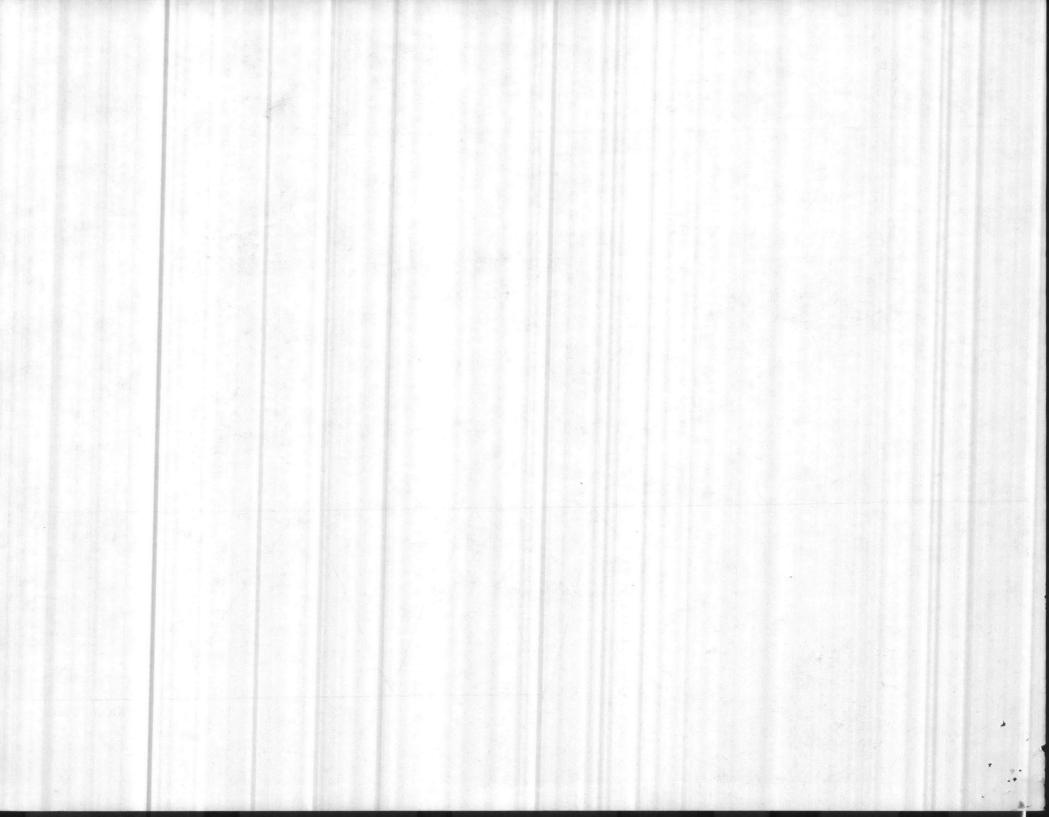
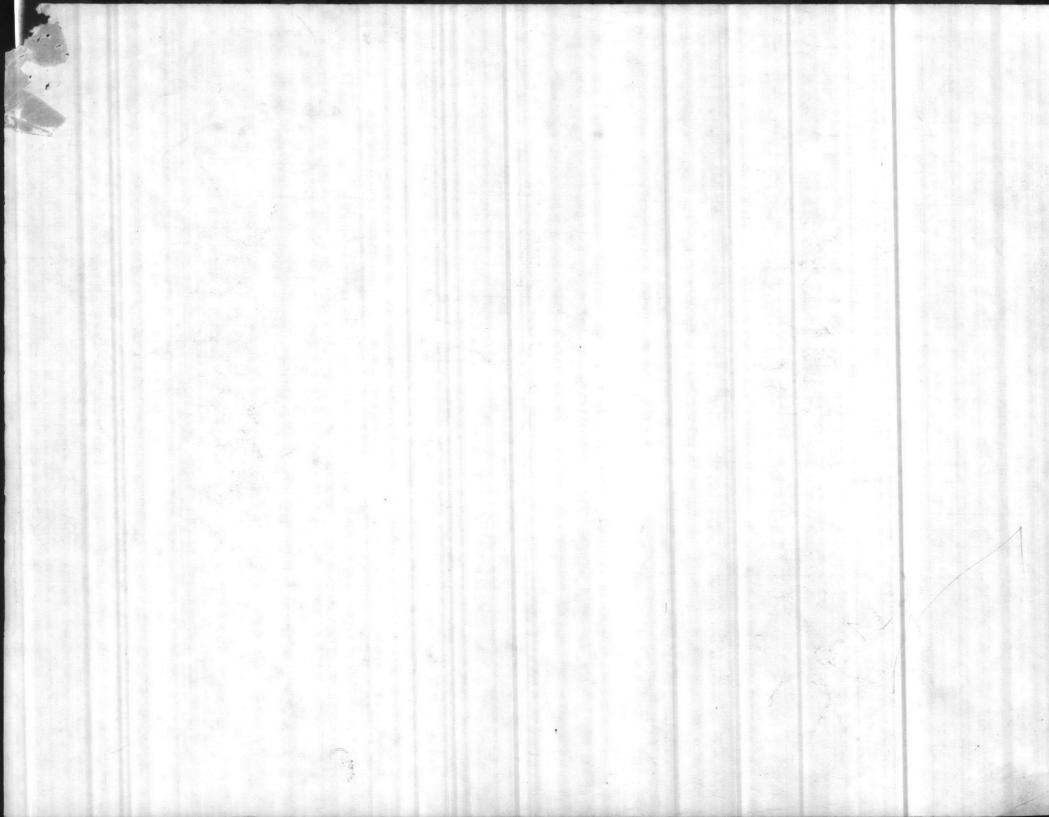


TABLE V

AERIAL SURVEY

		ONS	LOW B	BEACI	A	How		BRC	OWNS	ISLA	ND			B	SEAR	ISLA	ND		II.
Date	NC	ОС	NN	ON	NP	OP	NC	oc	NN	ON	.NP	ОP	NC	OC	NN	ON	NP	OP	Weather
5 05 94					T. T.			100								• 10		40	Fog/Clear
5-25-84	-	•	-				1		1			- 6	1		1				Clear
5-29-84	-					-	1				and a	1 10		Sist 1		Alexander III			Foggy/Overcast
5-31-84	1		1				1	7	1	1			1 10	1	122	1			Fog/Haze/Clear
6-5-84	1 1		<u>_</u>	1			3	3	2	3			3	2	3	2			Broken
6-7-84	1 1	1	1		A		1 4	1	2					2	-	2	2		Fog/Clear
6-12-84	1	1		2	1		6	1	5	4	-		2	$\frac{1}{1}$	2	1		2 12 1	Haze/Clear
6-14-84	5	2	5	2			2	_ 4	2	7			4	$-\frac{1}{1}$	3	1			Clear
6-19-84	4	2	2	2			2	2	2	2			2	2	2	2	1		Foggy/Clear
6-21-84					A		1		4	- 2			7						Clear
6-26-84	7	2	7	2			4		The second		The second	-	3		3	-	-		Fog/Haze/Overcas
6-28-84	2	4	2	4			4		3				1	7	1	7			Scattered
7-3-84	2	E IV	2	AND DE		AL FE	1		1				2	Т	2				Clear
7-6-84	4		4				2		2		2 3		-						Foggy/Clear
7-11-84	2	独特 - ×	2			1 11		2		2			2		2				Fog/Overcast
7-13-84		1		1	A STATE OF		3		3	A 100			2		2				Clear
7-17-84	2		2		14 4 4 7								2		2		-		LtRain/Overcast
7-20-84		E 1800 E 1					2		2				2		1				Foggy/Clear
7-24-84	111	A POST	8	STIF	A. TY	Marie of	5	2	5	2	11		3	- 7	3				Haze/Broken
7-27-84	17	1	7	1	A		4		4				4	1	4	1			Fog/Haze/Scatter
8-2-84	1 3	ir dis	3				13		13		Sec. 18		7	200	1		4 1 2		Fog/Haze/Scarce
8-7-84	1 5	The state of	5		12.30	展	2		2			1	3		3				Haze/Fog/Clear
8-9-84	1 7	-1	6	1	J F			2	30 10 10	2			3	2	3	2			Fog/Haze/Clear
8-14-84	1 3		3		an make sy		2		2	E 65			2	N ava	2				Haze/Clear
8-17-84	1 3					-	2	2	2	2				1		1			Clear/Obscured
0-17-04	-		4		-	-	1					7 1 1	1	1	Manager 1			145	Haze/Broken
8-21-84	11 11		4				1		1		18.5		2		2	tele may	1 - 1:	- 2-1	Haze/Sctd/Brkn
8-23-84	1 4		4	1			1		1	E 100			a Barrier						Clear
8-27-84	-	1	4	Т	4		1		4.0				1		2.15		The second		Clear
8-30-84								4	- D										



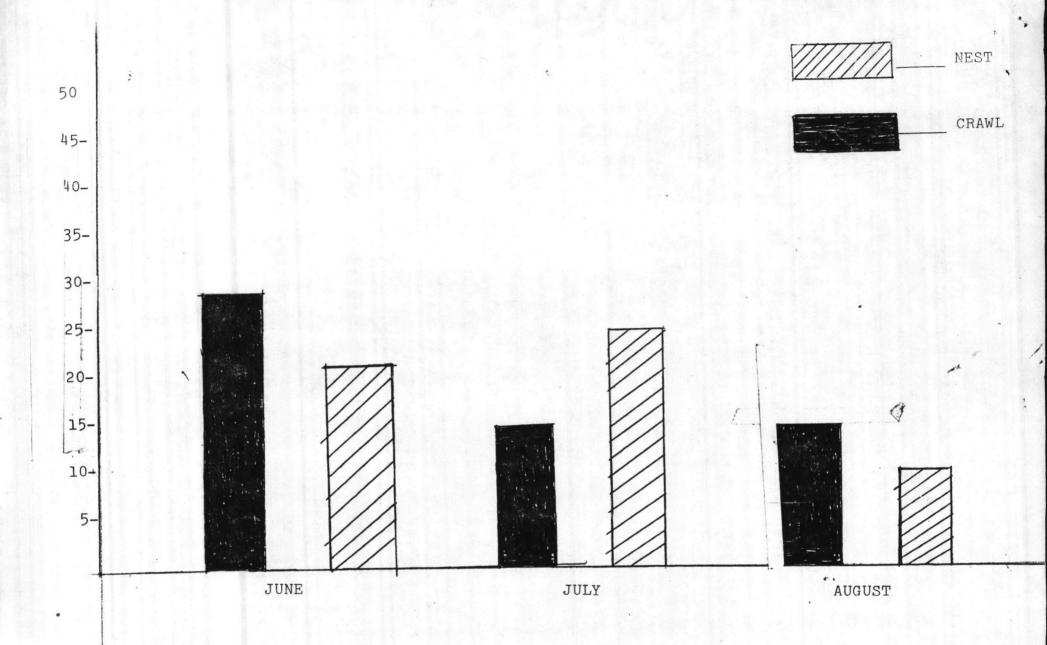


FIG. 2 - TOTAL CRAWLS AND NESTS BY MONTHS



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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ADVISOR, INSTITUTE OF
MARINE SCIENCE
MOREHEAD CITY, NORTH CAROLINA

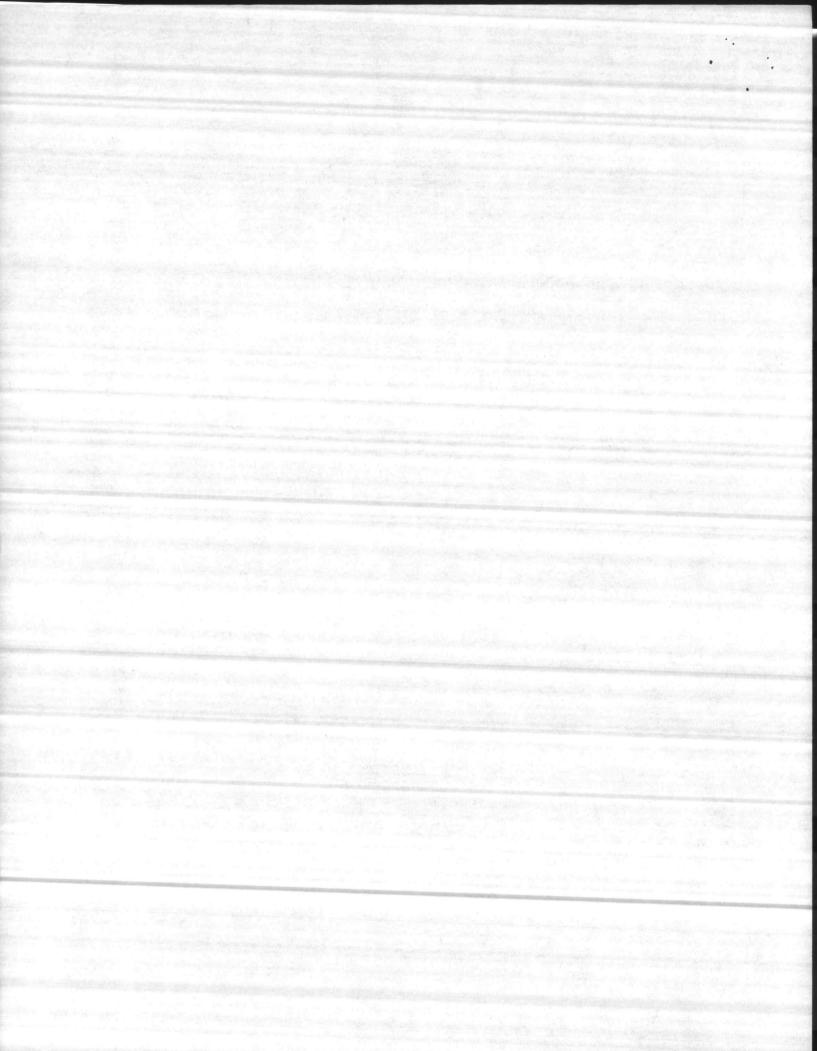


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Introduction
Sea Turtle Inventory (Crawl Data) - Table I
Return Record of Tagged Turtles - Table II
Crawl Information in Relation to Moon and Tidal Cycles and Weather Conditions - Table III
Ground Survey Numbers - Table IV
Aerial Survey - Table V
Nest Crawl Activity

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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 ______.

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

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- 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 .

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

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

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.

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Marine Corps Base Camp Lejeune, North Carolina

wl ·	Date	Time Crawl Occurred	Active Nest	Location*	Comments
3	6-16-94	2300	· X	3.3N	Tag AAR 101,102. Eggs 155 Relocated to dunes.
<u>lı</u>	694	2300	<u>X</u>	2.38	Tag AAR 103, 104. Eggs 53 Relocated to dunes.
5	6-17-84	0400		3.N	C.O. Relocated to dune.
	6-23-84	0330	X	4.N	Eggs 138. Relocated to dune. Eggs 16
	6-22-84	2200	. Х	2.9N	Tag AAR 105, 106
3	6-23-84	2405		1.6s	Tag AAR 107, 108
)	6-39-84	2325	X	3.45	Return Tag AAR 107, 108. Eggs 131.
)	6-29-84	0135	X	3.7N	Tags AAR 109, 110 Eggs 139
-	6-26-84	2330	X	3.4N	Return Tag 089, 090 Eggs 121
	6-26-84	0020	Х	2.0N	Return Tag AAR 097, 098. Eggs 152. Relocated f/1.2
	<u>4734787</u>	0115		2.6s	Return Tag AAR 095, 096
	8_38_84	0120		3.05	c.o.
	6-26-84	0355		1.85	c.o.
5	6-27-84	2130	Х	3.4N	Tag AAR III, 112. Eggs 13 Relocated to dunes.
7	6-27-84	2330		1.8N	Return Tag AAR 093, 094
2 .	6-27-84	2345	X	.2N	Relocated from 1.28 Ret.Tag 091,092. Eggs 124
2	6-27-84	0100		2.98	Return Tag AAR 095, 096
)	6-27-84	0340	X	3.75s	Relocated from 3.6S. Retu Tag AAR095,096. Eggs 136.
	6-23-54	2345	. X	.6N	Relocated to dune. Retur Tag AAR093,094. Eggs 132
2	6-28-84	2345	. Х	.6N	Relocated to dune. Tags AAR 113,114. Eggs 91.
3	6-28-84	0100	Χ	2.1S ·	Tags AAR 115, 116. Eggs 144.

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.

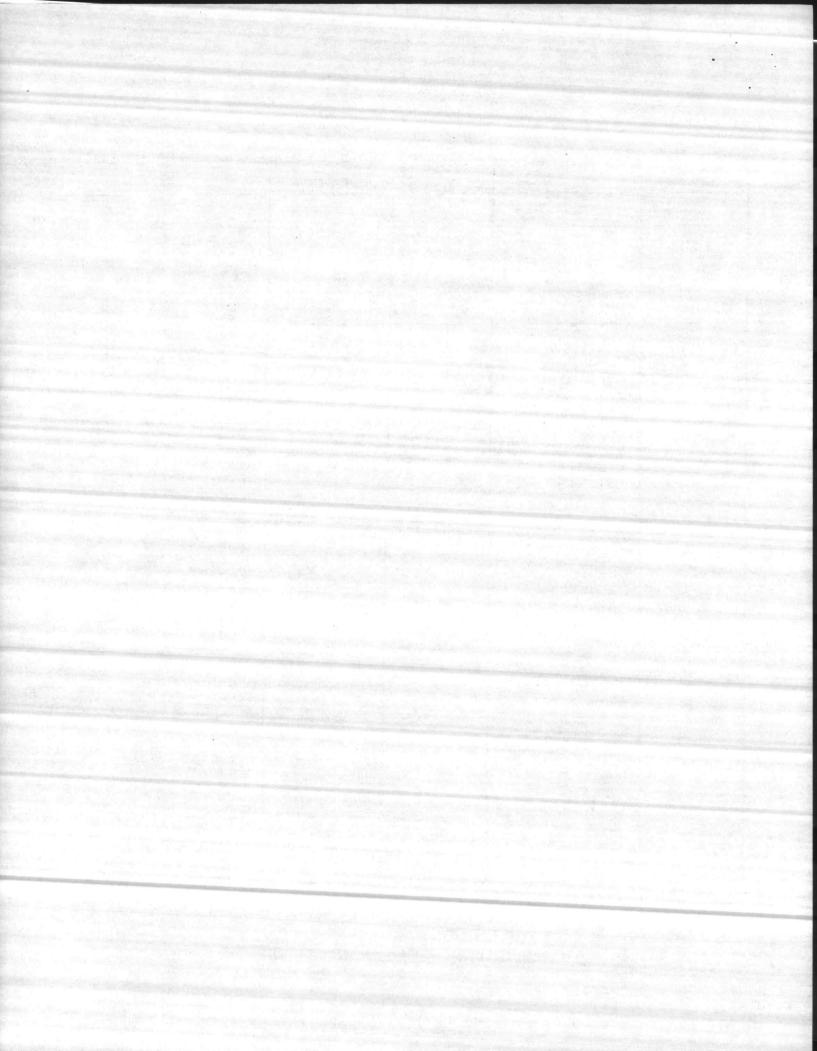
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Marine Corps Base Camp Lejeune, North Carolina

awl	Date	Time Crawl Occurred	Active Nest	Location*	Comments
44	6-28-84	0130		2.2S	c.o.
45	6-28-84	.0130		2.35	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	2340		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	Х	2.1N	Relocated from 2.48 Eggs 131
53 .	7-1-84	C030 .	Х	2.18	Relocated from 3.3S Eggs 159
54	7-4-84	2300	X	1.5S	Return Tags AAR 105, 10 Eggs 144
55	7-5-84	2230	X	2.3N	Relocated to dune. Eggs 161
56	7-9-84	0100		1.18	c.o.
57	7-9-84	0300	X	1.0N	Return Tag AAR 107, 108 Eggs 122
58	7-10-84	2307		.98	C.O.
59	7-10-84	C200	X	3.2N	Relocated to dunes. Egg 126. Tag AAR 097, 098.
60	7-11-84	2230	Х	.2N	Tag AAR 117, 118. Relocation .6S. Eggs 157
61 .	7-11-84	0020	X	3.78	Tag AAR 119,120. Reloca to dune 25m.N10M. Eggs
62	7-11-84	0310		2.25	Return Tag AAR 091, 092
63	7-12-84	0043	X	2.08	Return Tag AAR 091, 092 Eggs 131
64	7-12-84	0120		3.78	C.O.
65	7-15-84	2130	Х	1.9N	Relocated 10m(S) to dune Tag AAR 121,122. Eggs 1:

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 clood plane in vehicle to avoid leaving tire tracks in the sand.



Marine Corps Base Camp Lejeune, North Carolina

rawl 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	Х	.8n	Rel.to Ocean side of Dune Tag AAR 123,124. Eggs 111
070					
071	7-23-84	2130	Х	2.4N	Eggs - 140.
072	7-23-84	2330	Х	3.2N	Return Tag AAR 097, 098. Eggs 130.
۵73	7-23-64	0030		···.IN	Return Tag AAR 107, 108.
074	7-23-84	0050		3.1S	Return Tag AAR 119,120.
075 .	7-23-84	0228		2.98	c.o.
076	7-23-84	0335	Х	3.1S	Relocated to Dune. Return Tag AAR 119,120. Eggs 125
277	7-284	2320		3.3N	C.O. Tag AAR 125, 126.
278	7-24-84	0022	Χ	67M.N	Rel.from under Risely Pier Tag AAR127,128. Eggs 129.
079	7-24-84	0120	Х	.8N	Relocated from .4S. Eggs 130.
080	7-25-84	0057	Χ	3.65	Return Tag AAR 125,126. Rel to dune. Eggs 118.
081	7-25-84	2200	X	.lN	Relocated from .6S.Return Tag AAR 099,100. Eggs 93.
082	7-26-84	2255 .		3.2N	c.o.
083	7-25-84	0130	Χ	3.5N	Tag S.M.I. 803. Relocate to Dune. Eggs 89.
084	7-26-84	0230		2.68	0.0.
085	7-27-34	0110		2.3N	0.0.
186	7-27-34	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 11000 plane in vehicle to avoid leaving tire tracks in the sand.

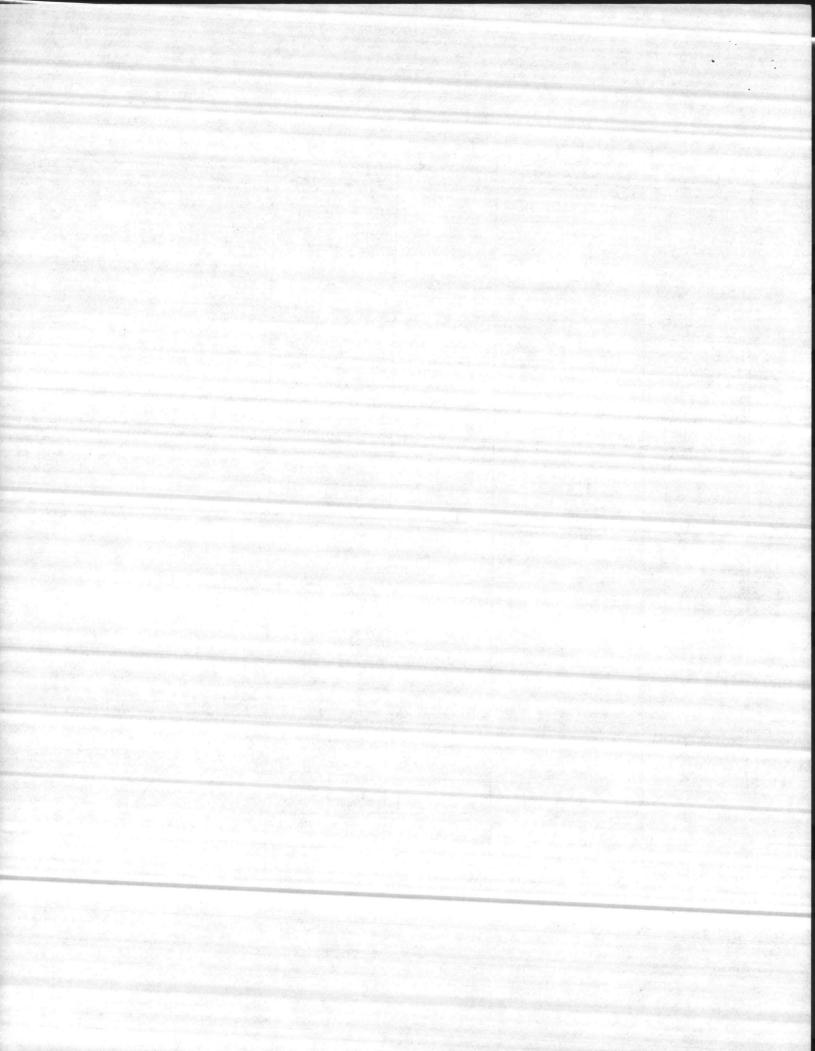
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Marine Corps Base Camp Lejeune, North Carolina

awl	Date	Time Crawl Occurred	Active Nest	Location*	Comments
87	7-28-84	1134		1.08	Return Tag AAR 129, 130.
88	7-28-84	1145	· · · · X · · · ·	3.35	Relocated 5MN to Dunes. Ret.Tag AAR113,114.Eggsl4
99	7-28-84	0258	х '	1.5N	Ret. Tag AAR 121, 122. Eggs 109.
99	7-20-84	2150	X	.2N	Relocated to Dune.
<u>01</u>	7_20_84	2230	X	2.1S	Eggs 144. C.O.
C2	T_20_84	2330		2.9N	c.o.
03	7_20_84	0010	. X	.6N	Relocated to Dunes. Retur Tag AAR 105,.06. Eggs 150
04	7-21-84	0230	. X	1.95N	Relocated from 1.1S. Eggs 114.
95	3-5-34	2151	_X	2N	Relocated to Dune. Tag AAR 131, 132. Eggs 63.
96	8-5-84	0200		2.85	Return Tag AAR 119, 120.
97	8-5-34	0330		2.78	c.o.
<u> </u>	8-6-84	2300		1.7N	Return Tag AAR 123, 124.
99	8-6-84	2341		3.3N	c.o.
00	5-6-84	0115	χ	3.2N	Return Tag AAR 097, 098. Eggs 114.
01	9-6-84	0230	. X	3.2N	Relocated from 2.9S. Returning AAR 119,120. Eggs 129
02	9-7-94	0320	X	3.5N	Relocated to Dune. Tag AAR 133,134. Eggs 117.
03	8-12-84	2110	X	2.0N	8-11-84. Eggs 134.Rel.tc
04	8-12-84	2145	and the state of t	3.1N	c.o. du
05	8-12-84	2300		2.0S	c.o.
06	8-12-84	0047		3.0S	C.O.
07	8-12-84	0055		3.18	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 courred. 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.



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	8-12-34	0220		6N	C.O. (Eggs 125
116	8-13-34	2127	X	2.0N	Relocated from 1.7N. Re- turn Tag AAR 093,094.
111	8-13-84	0115	X	1.8N	C.O. Relocated from 1.7S. Eggs 114.
112	8-17484	2305	Х	3.9N	Relocated to Dune. Tag AAR 135,136. Eggs 122.
13	8-21-84	0126 .		3.58	C.O.
14	8-22-84	2140		1.98	c.o.
.15	8-22-84	0050		2.3N	c.o.
16	8-22-34	0140		2.45	c.o.
17	8-22-84	0150	Χ	2.0N	Relocated to Dune. Tag AAR 137,138. Eggs 76.
18	8-23-34	2150	4.40	3.1N	c.o.
.19	8-23-84	2310	Χ	.2N	Relocated from .4S. Returning AAR 107,108. Eggs 11
.20	9-234	2300	Х	3.7S	C.O. Eggs 98.
21	8-30-34	2100/0500	X	3.2N	C.O. Eggs 133.
alone and					To provide all the explaint of the control of the figure of the control of the co
		are to the state of the state o			
	The second secon				
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Layer and severely			er spiesen printe en de		
e to Marchinal					

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, raveling by four wheel drive vehicle when the tide is low. Traverse the beach glood plane in vehicle to avoid leaving tire tracks in the sand.

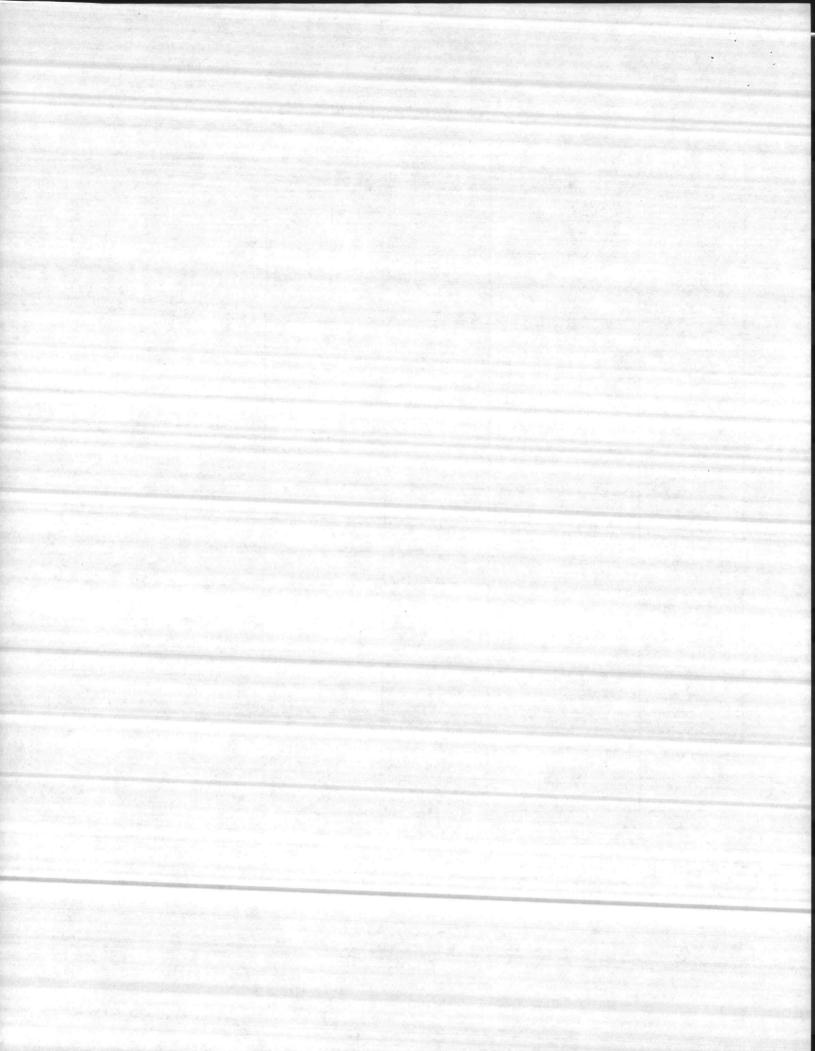


TABLE II (Cont'd)

Date Tagged	Tag Number	Return	Return	Return	Return
8-17-84 (2)	AAR 135, 13	6	18-19-19-19-19-19-19-19-19-19-19-19-19-19-		
8-22-84 (2)	AAR 137, 13	8			
6-15-84 (1)	SMI 803 *	7-26-84 (2)			

- (1) Did not nest
- (2) Nested

^{*} Scientific Marine Institute, Morehead City, North Carolina

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		CONTRACTOR OF THE PARTY OF THE

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		2
6-12-84	1945 - 97%	1955	2100-0500	2230	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		23.00	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	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	l,
7-1-84	0827 - 05%	2234		0030	i
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

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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	2130 0335	6
7-24-84	0218 - 23%	1716	2320	0022 0120	3
7-25-84	0303 - 15%	0630	AND THE PARTY OF	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	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	and the second s	2305	1
8-21-84	- 38%	0405	0126		1
8-22-84	0141 - 28%	2311	2140 0140 0050 0150		4
		Control Superior Supplied Development			

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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 Crawl
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
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TABLE IV

GROUND SURVEY NUMBER

(Nights not separated at Midnight)

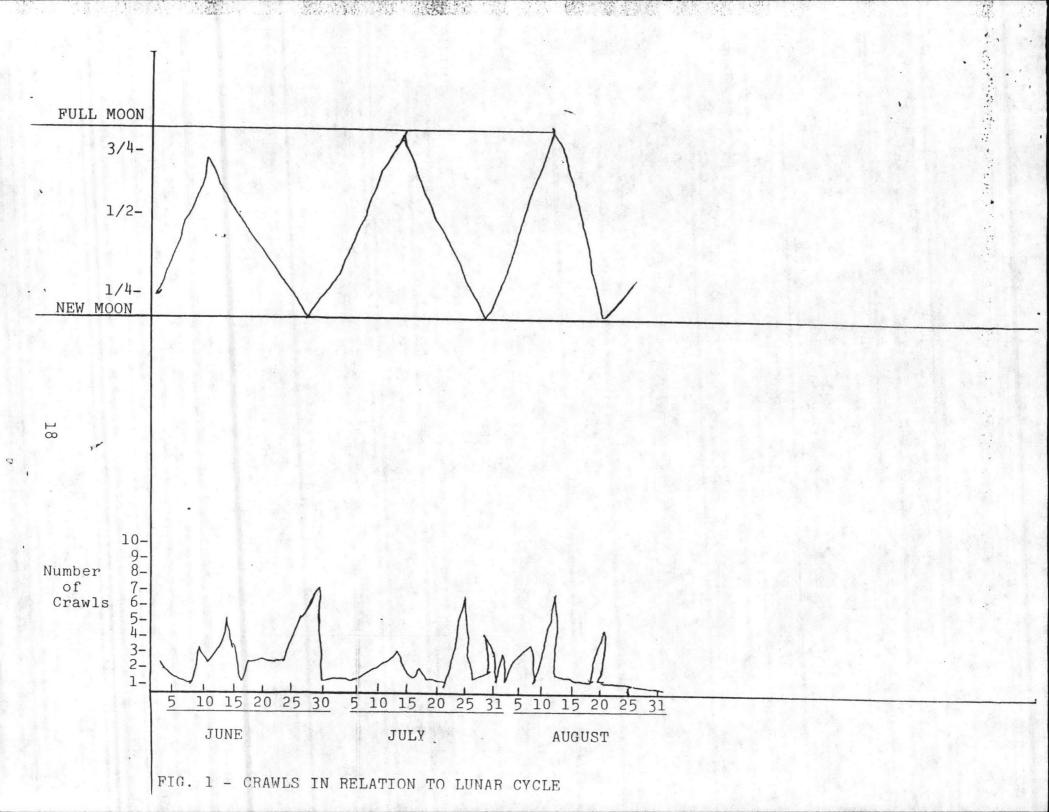
<u>Date</u>	Crawls/No Nest	Crawls/Nest	Total
6-4-84 6-5-84 6-6-84 6-7-84 6-8-84 6-10-84 6-110-84 6-113-84 6-13-84 6-14-84 6-15-84 6-15-84 6-17-84 6-18-84 6-17-84 6-18-84 6-19-84 6-21-84 6-22-84 6-22-84 6-22-84 6-25-84 6-27-84 6-28-84 6-29-84 6-30-84	1 0 0 0 1 1 0 2 1 3 0 3 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 1 0 2 0 0 0 2 2 0 0 0 1 1 1 0 0 0 0	200113023503120002220055731
7-1-84 7-2-84 7-3-84 7-4-84 7-5-84 7-6-84 7-7-8-84 7-9-84 7-10-84 7-11-84 7-12-84 7-13-84 7-15-84 7-16-84 7-17-84 7-18-84 7-19-84	0 0 0 0 0 0 0 0 0 1 1 1 1 0 0 0 0	1 0 0 1 1 0 0 0 0 1 1 1 2 1 0 0 0 1	1 0 0 1 0 0 0 0 2 2 3 2 0 0 0 1 2 1 0 0

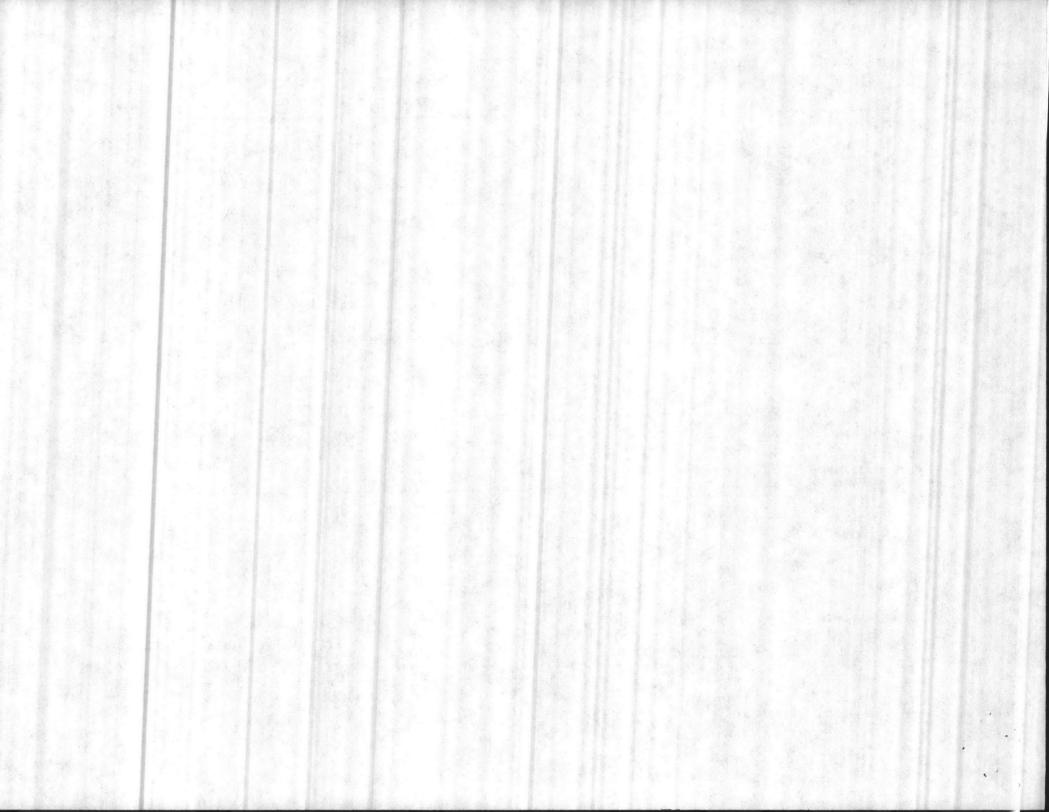
Annual mental and a contract of the contract o

TABLE IV (cont'd)

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

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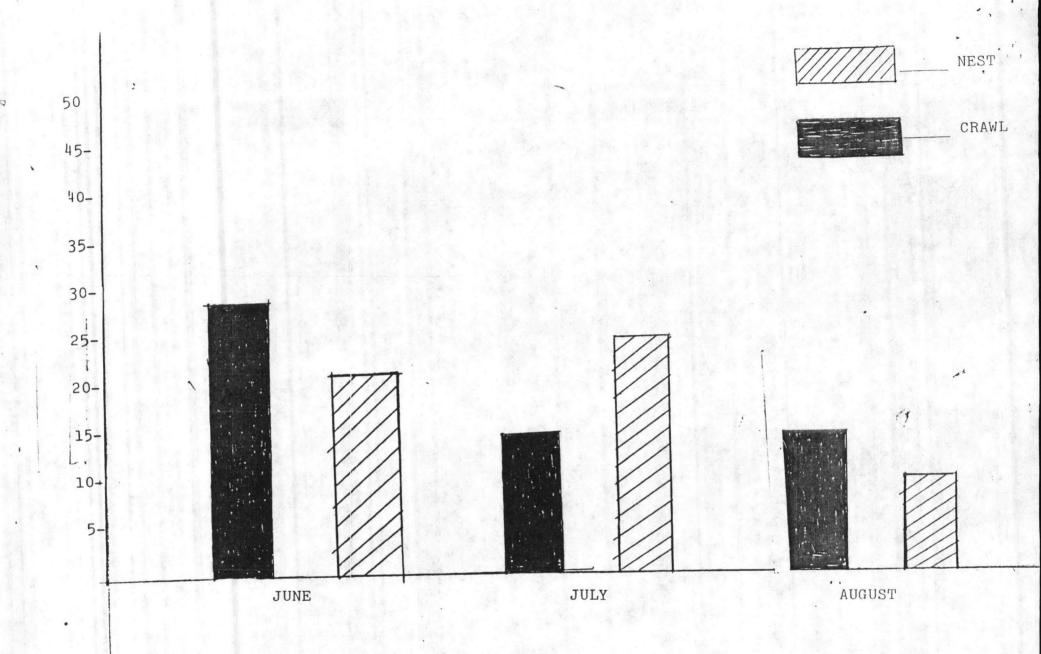


FIG. 2 - TOTAL CRAWLS AND NESTS BY MONTHS

PG.

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TABLE V

AERIAL SURVEY

		ONS	LOW E	BEACH				BRC	WNS	ISLA	IMD			,E	BEAR	ISLA	IND		•
Date	NC	oc	NN	ON	NP	OP	NC	oc	NN	ON	NP	OP	NC	OC	ИЙ	ON	NP	OP	Weather
5-25-84																			Fog/Clear
5-29-84			100				1	1	1				1		1	7		- F	Clear
5-31-84		7-7	. Was	Page 1			73.00			car a Mai suit	7						17		Foggy/Overcast
6-5-84	1		1				1	1	1	1	7			1		1	100	75	Fog/Haze/Clear
6-7-84	1	1	1	1	1.00		3	3	2	3	4 7 16		3	2	3	2	1.4	100	Broken
6-12-84	1	1	1		There		4	4	2	3 3	1 1 1 3	177		2		2	2		Fog/Clear
6-14-84	1 5	2	5	2	1		6	4	5	4			2	1	2	1			Haze/Clear
,6-19-84	4	2	2	2	100		2		2	1.00		-61	4	1	3	1			Clear
6-21-84			1.1.			732	2	2	2	2			2	2	2	2		Marie Control	Foggy/Clear
6-26-84	7	2	7	2			-4	1	4	1			1				7.00		Clear
6-28-84	2	4	2	4			4		3				3		3	1794			Fog/Haze/Overcas
7-3-84	2		2		A PORT		1		ī				ī	1	1	1			Scattered
7-6-84	4		4				2		2				2		2	100			Clear
7-11-84	2		2			7.50		2		2			- 25 4-34		No.				Foggy/Clear
7-13-84		1		1		3.83	3		3	No.		1112	2		2				Fog/Overcast
7-17-84	1 2		2	Lee									2		2		4710		Clear
7-20-84							2		2	120			2	17 24	1		high control		LtRain/Overcast
7-24-84	111		8			771	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		2 10		13		13				7		7				Fog/Haze/Scatter
8-7-84	1 5		5				2 -	1	2				3	- 1	3	6.4			Haze/Fog/Clear
8-9-84	1 7	1	6	1	S 78			2		2	186	1	3	2	3	2	73.55	W 1	Fog/Haze/Clear
8-14-84	3	10 1	3				2		2				2		2	10 18			Haze/Clear
8-17-84	11 -						2	2	2	2		2.33		1		1	178 1	7 V Y	Clear/Obscured
8-21-84	7 7 7 7					100					31 91		1	1		Total III			Haze/Broken
8-23-84	1 4		4				1	100	1	9803 W 1			2		2				Haze/Sctd/Brkn
8-27-84	1	1		L			L		1										Clear
8-30-84	1									1				la la la		10000			Clear



NORTH CAROLINA SEA TURTLE CONSERVATION 1984
NESTING RESULTS

PROJECT NAME Camp Lejeune, NC

Nest #	Date	Treatment code	Date hatched	Incubation time	Clutch size *	# Hatched	Survival % (HN/ H+UH)	Losses (pred., overwash)
1	5-24-84	7/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	\$5	90.16	
6	6-12-81	2-w	8-27-84	77	115	100	81.72	
7	6-12-84	Ru	8-29-84	79	139	105	76-64	
8	6-13-84	w	8-26-84	75	155	24	15-48	
٩	6-13-84	R-w	8-51-81	70	98	52	53.06	
10	6-13-84	240	8-18-84	67	98	38	41-8	
11	6-16-84	8-W	8-21-84	67	155	135	93-10	
12	6-17-84	8-00	8-25-84	70	53	35	62.5	
13	6-21-84	Rus	9-3-84	75	138	91	65.94	
14	6-22-84	3-00	9-3-84	74	164	149	90.85	•
15	6-23-81	w	8-25-84	64	131	114	91.1	
16	6-23-84	w	9-1-84	77	139	104	74.85	

* Clutch size determined from nest remains

Achae Clutch 5:22 previously confirmed

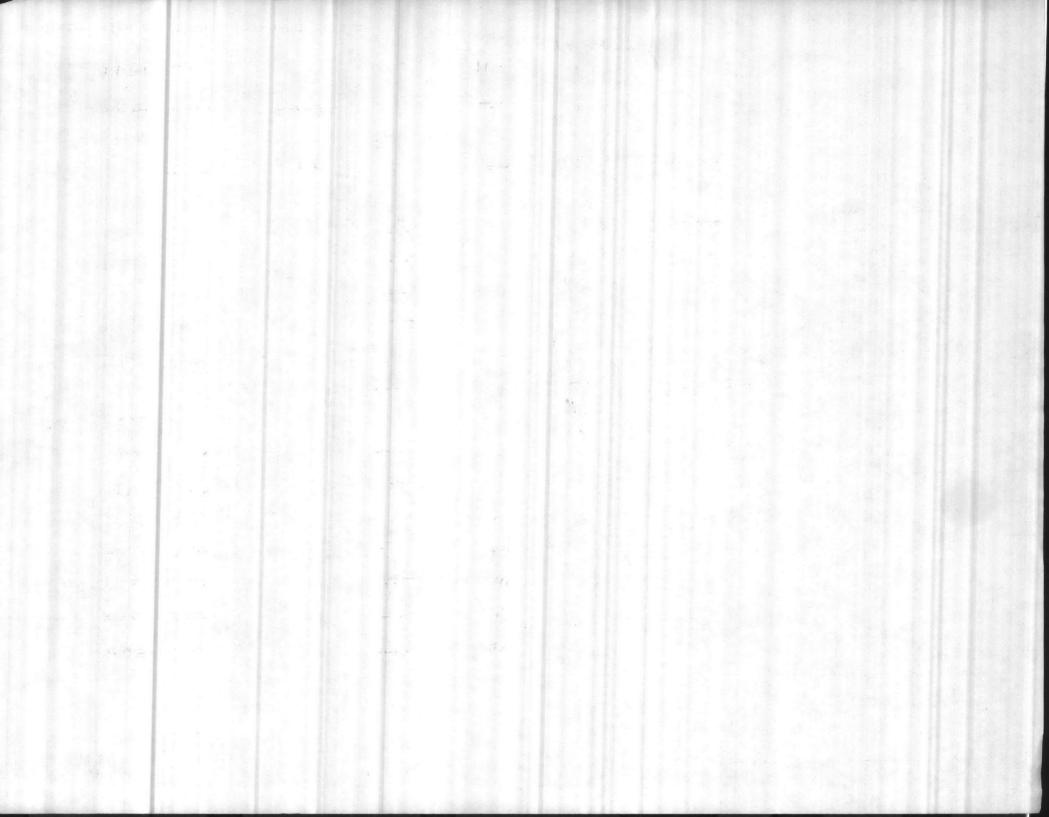


Nest #	Date	Treatment code	Date hatched	Incubation time	Clutch size *	# Hatched (HN)	Survival % (HN/ H+UH)	Losses (pred., overwash)
17	6-26-84	W	9-4-84	71	6121	6107	88.42	
18	6-26-84	Rw	9-6-84	73	152	22	14-47	
19	6-27-84	2-00	9-5-84	71	137 .	102	74.45	
20	6-27-84	R-W	9-4-84	70	124	(10	88,10	
21	6-27-84	Rus	8-27-84	62	136	129	88.35	
22	6-28-84	2.00	9-4-84	69	132	128	96.96	
23	6-58-84	Rw	9-4-84	69	91	ලිර	87.92	
24	6-28-84	W	8-31-84	65	(44	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	7-15-8	R-W	9-27-84	75	117	10	94-87	



Nest #	Date laid	Treatment code	Date hatched	Incubation time	size *	# Hatched (HN)	Survival % (HN/ H+UH)	
35	7-17-84	R-W	9-22-84	68	142	5 8	82.39	
36	7-22-84	R-W	9-26-84	67	111	102	95.45	
37	7-22-84	W	9-30-84	7/	140 .	127	90.71	
38	7-23-84	w	10-7-84	77	130	10	7.69	over wash.
39	7-23-84	RM	9-28-84	68	125	(21	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	119	90.	
42	7-25-84	R.W	_		118	= 1		words out Due HURRICAINE DIANIE
43	7-26-84	Riw	10-14-84	81	93	37	39.28	and the transfer of the state o
44	7-26-84	R-W	-	-	89	-	_	overwas
45	7-27-84	RW	16-7-84	73	125	109	87.2	
46	9-28-84	R-W	10-4-84	69	143	98	68.53	
47	7-28-84	W	10-14-84	79	109	66	60.55	
48	7-24-84	RW	10-13-84	77	115	90	78.26	
49	7-29-84	W	-	_	144	- /		overwash.
50	7-30-8	R-W	10-21-84	73	150	าา	51.33	
51	7-31-84	R-W	-	-	114	-	-	overwas.
52	7-5-84	R-W	16-30-84	80	63	38	61.8	
53	8-6-84	W	0	0	114	0 /	0	

^{*} Clutch size determined from nest remains



Nest #	Date	Treatment code	Date hatched	Incubation time	Clutch size *	# Hatched (HN)	Survival % (HN/ H+UH)	
54	8-6-84	R-W	0	0	129	6	0	
55	8-7-84	R-W	0	0	117	0	0	
56	8-11-84	2-W	10-30-84	80	134 .	7.	11.490	
57	8-13-84	R.W	0	0	125	D	0	
58	8-13-84	2.00	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	8-2484	w	0	0	98	-0	-0	wash at Due to Horrichia
63	8-35-84	W	News HARD	-0	123	6/	0	
					11 56	7-		
					in the			

^{*} 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 1504 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

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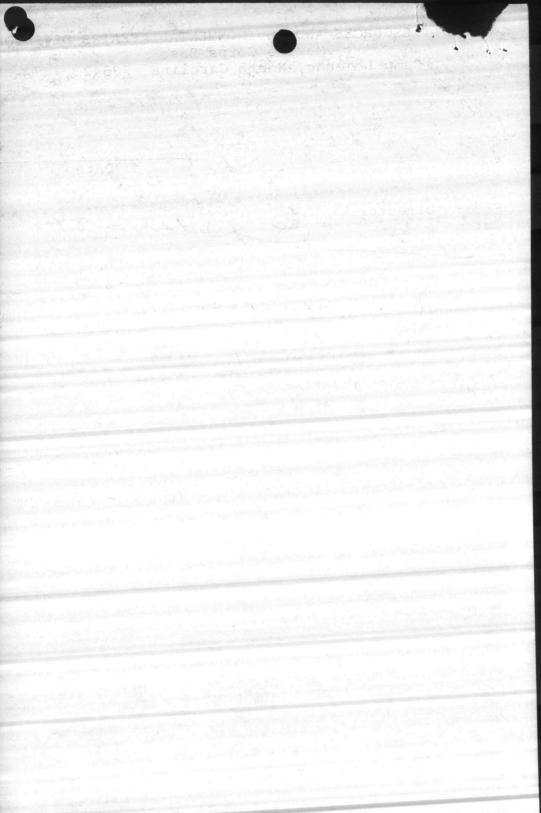
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Sir Strawage

AL RESOURCES AND NVIRONMENTAL AFFAIRS DIVISION Mar Me Corps Base Camp Lejeune, North Carolina 28542 12-10- Date From: Director
To:

Charles

12-16-84 Please provide Desired if to Dr. Schwartz as requested Julian





THE UNIVERSITY OF NORTH CAROLINA

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 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? final

Again, a job well done. Onward to 1985.

Sincerely,

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,

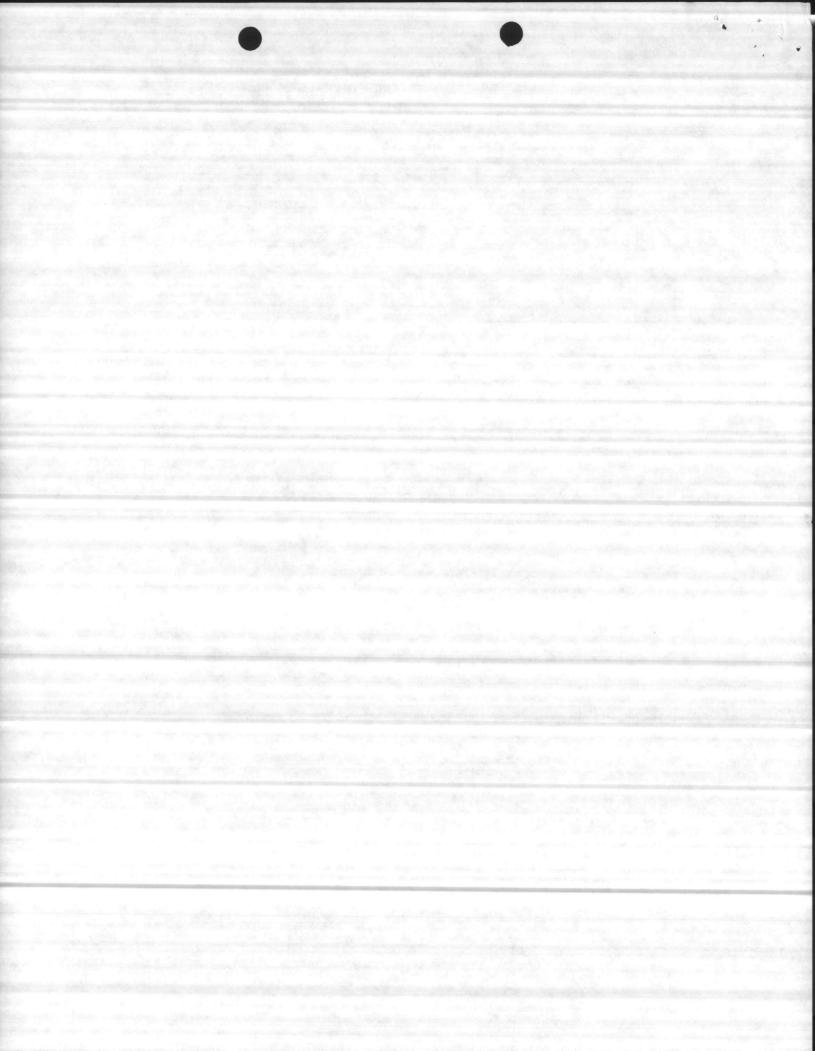
J. I. WOOTEN
Director
Natural Resources Division
By direction of the Commanding General

Blind copy to: AC/S, FAC

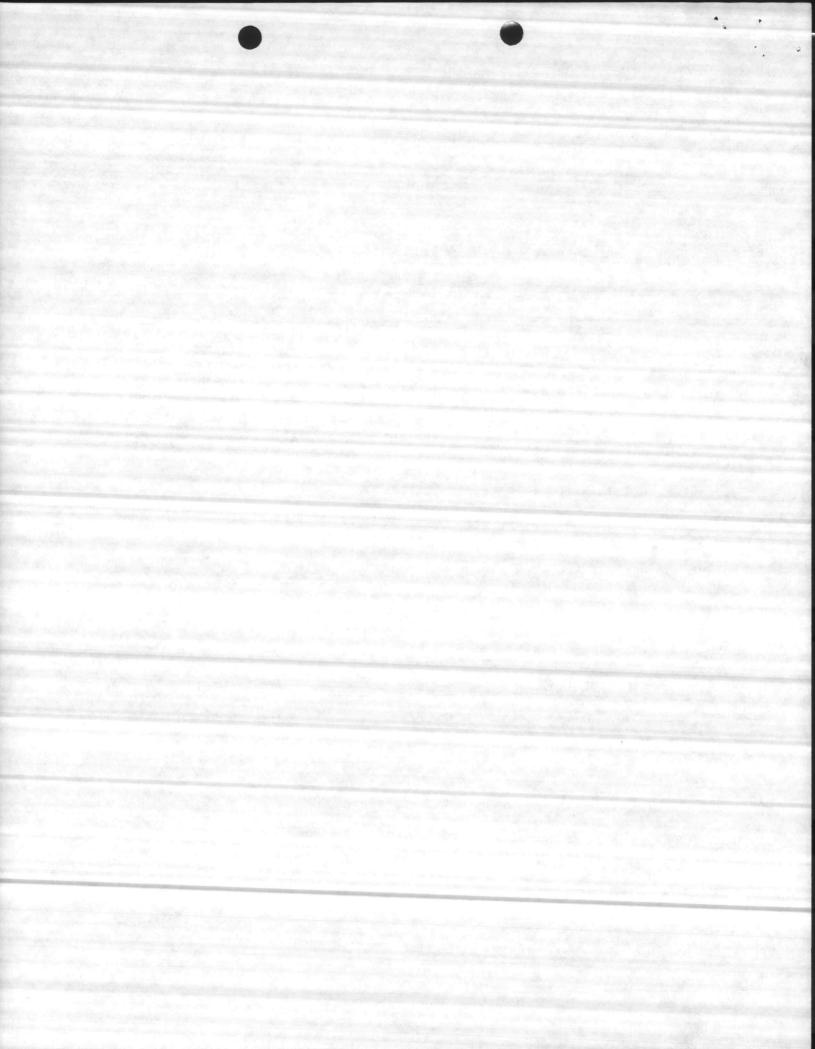
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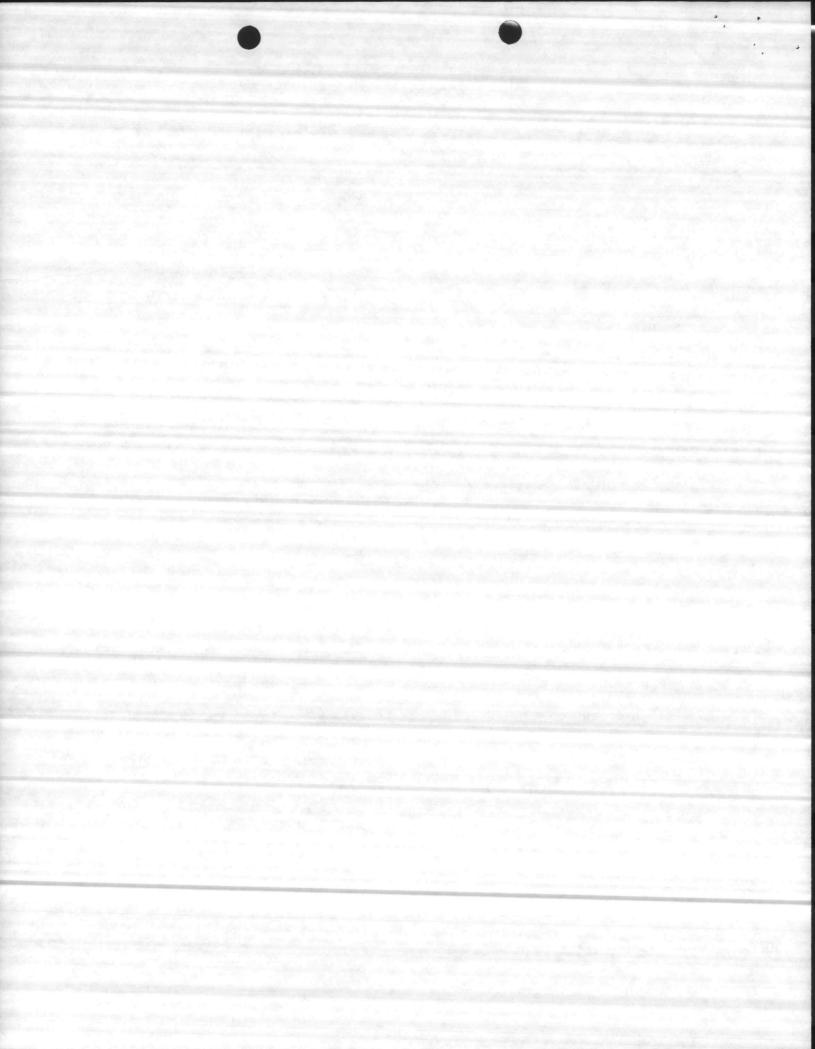
Tag Number(s) <u>QAR 087</u> Specific Speci	ecies <u>C.C.</u>		Encoun	<u>6-9-84</u> tered	
Describe location encountered	.85 of Risel	y Pier			
		4			
Circle correct answer:					
"New" turtle (not carrying any tags	or tag scars	s) (Y	es	No	
If no, then circle correct category					
1) Recapture of same project	turtle (with	in season	or mul	ti-annual)	
2) Recapture of different pro	All the second			Salation Colors of	
 Turtle has definite tag sca 					
of the rie mas definite tag sea					
Tag return address (if other than №	1FS Lab/Vir 1	(ey)			
Carapace length straight line	cm	-14	in		
Carapace width straight line					
car apace wroth straight time	cm	12000	in		
	cm	4474	in in		
Carapace length over curve		44 ¹ / ₄	10		
Carapace length over curve Carapace width over curve	cm	371/2	in		
Carapace length over curve Carapace width over curve Did turtle nest? Yes No Undete	cm cm ermined (circ	37 ¹ / ₂	in		
Carapace length over curve Carapace width over curve	cm cm ermined (circ	37 ¹ / ₂	in		
Carapace length over curve Carapace width over curve Did turtle nest? Yes No Undete	cm cm ermined (circ	37 ¹ / ₂	in		
Carapace length over curve Carapace width over curve Did turtle nest? (Yes) No Undete	cm cm ermined (circ	37 ¹ / ₂ cle one)	in in	Jans Di	-5:, N



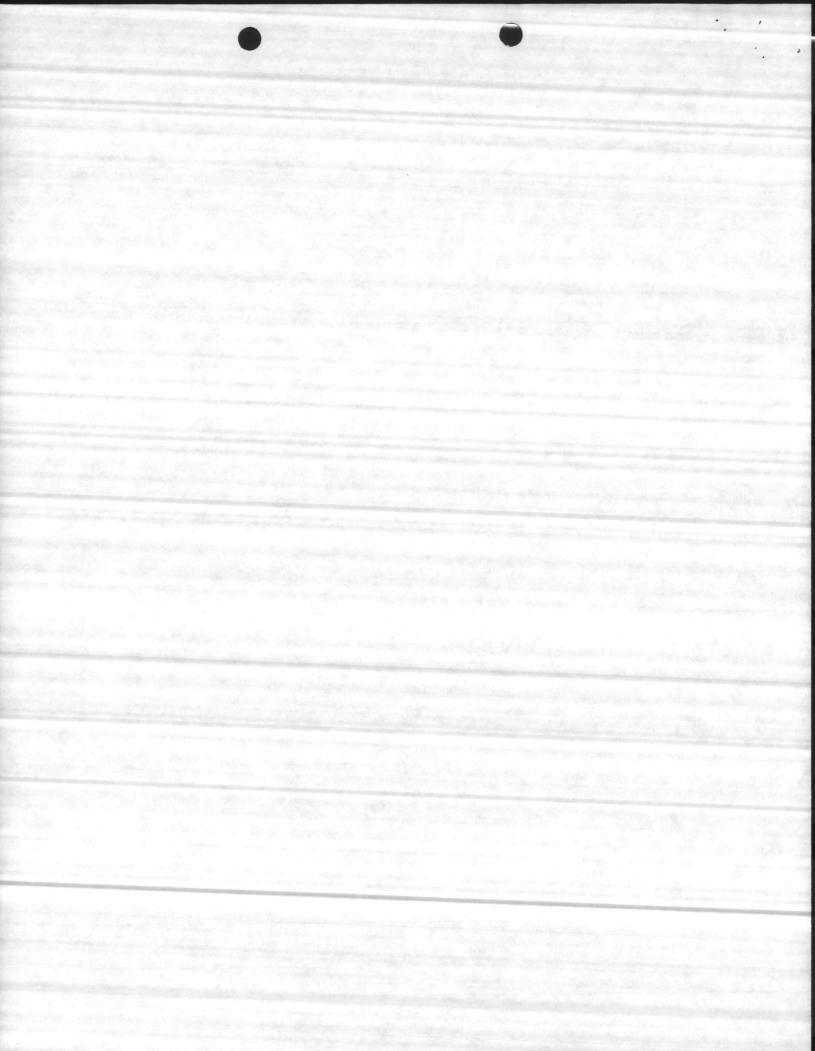
Tag Number(s)	AAR 089	Species C.C		ate 6-9-84
<pre>(list all tag #'s and letter prefix)</pre>	PAR 090		E	ncountered
Describe locati	on encountered _	2.9 N of Risel	Pier	
		1	*	
Circle correct	answer:			
"New" turtle (n	ot carrying any 1	tags or tag scar	s) (Ye	s) No
	cle correct cate			
	ure of same proje		in season o	r multi-annual}
	ure of different			
	has definite tag			
Tag return addr	ess (if other tha	an NMFS Lab/Vir I	Key)	
Carapace length	straight line	cm		in
Carapace width	straight line	cm		in
Carapace length	over curve	cm	351/4	in
Carapace width	over curve	cm	32 1/8	- in
Did turtle nest	? Yes No Ur	ndetermined (circ	cle one)	
Additional rema	rks or data (use	hack if necessar	ry) Pot ==	ed 6-26-84 (M-STOD)
		· · · · · · · · · · · · · · · · · · ·	ST KETOKIN	6-26-87 (MC) (MC)
Organization To	agina			
				Affairs Division
THE FINE CORP	s BASE, CAMP	LeJeune, MC	28542	



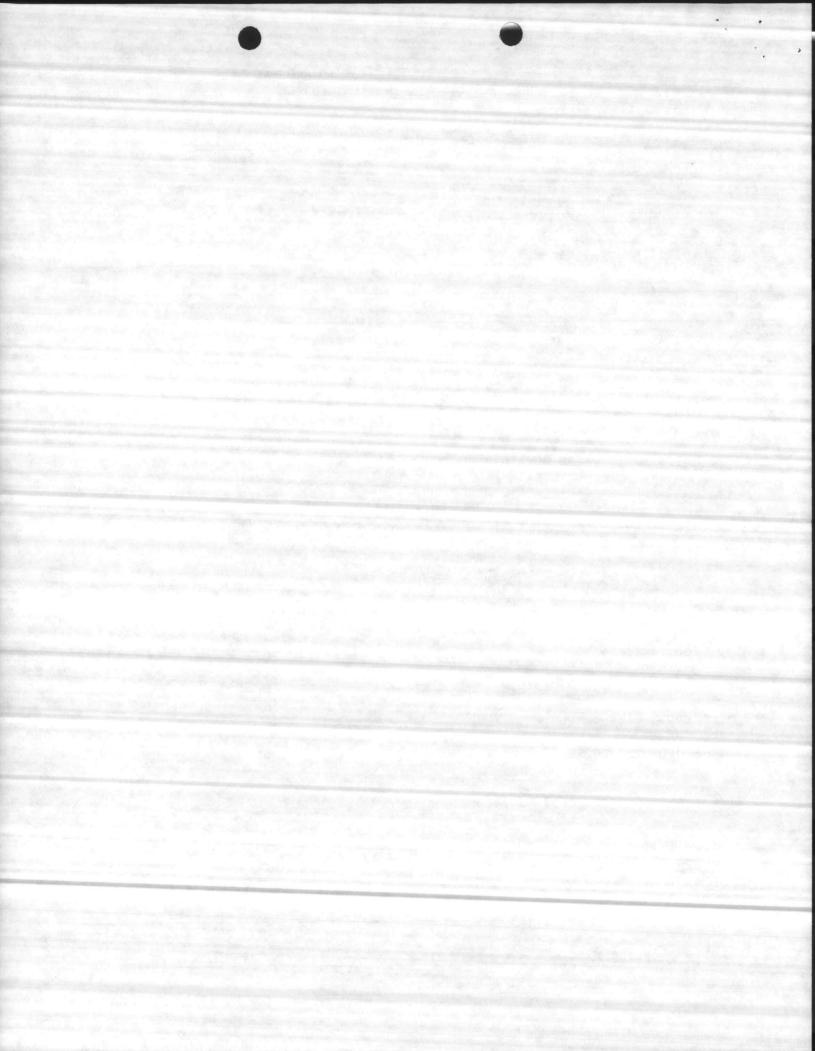
Tag Number(s)	AAR 091	Species <u>CC</u>	Da	te 6-12-84	
(list all tag #'s and letter prefix)	AAR 092		Er	ncountered	
Describe locati	ion encountered	. 8m 5 . + Rs	ley Pierz		
			3		
Circle correct	answer:				
		tags or tag scar	s) (Yes	S) No	
	cle correct cat				
		ject turtle (with	in season or	multi-annual\	
		t project turtle	-	murci-aminuar)	
S) Turcie	e has definite to	ag scar			
Tag return addr	ess (if other th	nan NMFS Lab/Vir	(ey)		
Carapace length	straight line	100		Allow Transition	
		Cm		in .	
Carapace width		cm	3/	- ⁱⁿ	
Carapace length	over curve	cm	4374	in .	
Carapace width	over curve	cm	39/4	_ in	
Did turtle nest	? Yes No I	Undetermined (cir	cle one)		
Additional rema	irks or data (use	e back if necessa	ry) KETURNED	0 6-27-84 CHEST	17-12-84 (Nes
					And the same of th
Organization Ta	agging Natural	Resources : EN	iromento	Affairs Di	ision
		p Lageree, NC			



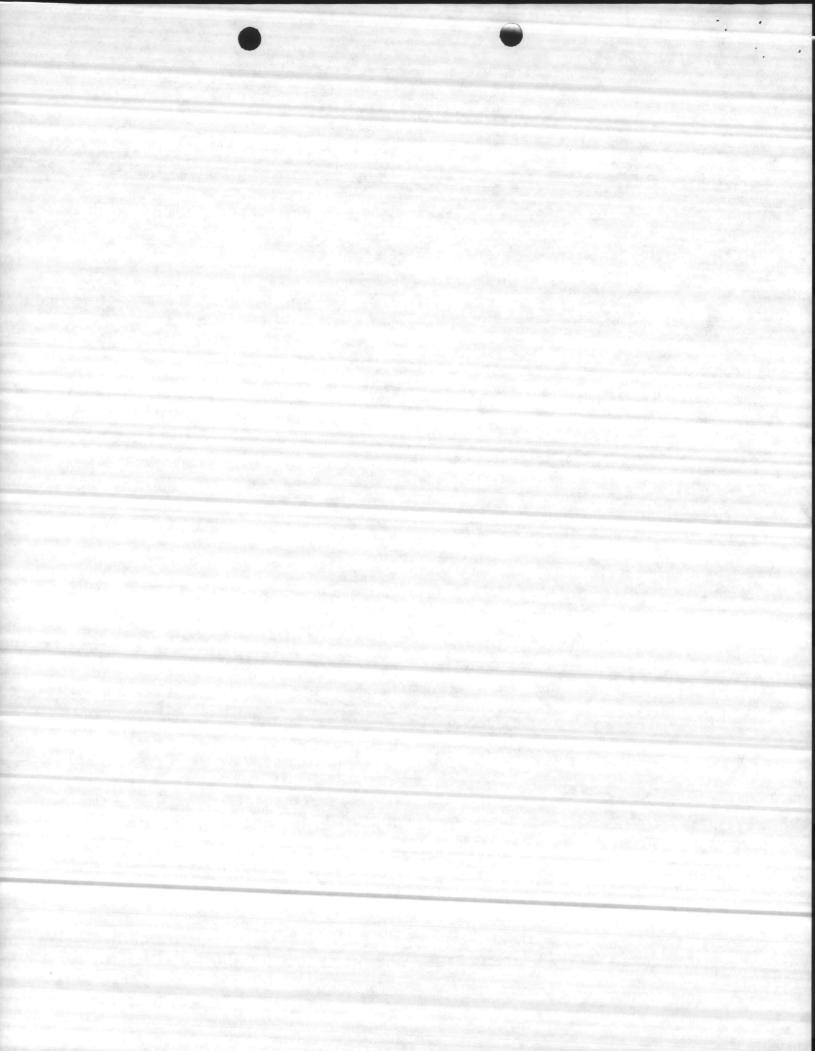
Tag Number(s) ARR 093 Sp (list all tag #'s and letter ARR 094 prefix)	ecies <u>Cc</u>		Date <u>6-/2-84</u> Encountered	
Describe location encountered	3.1N of P	ely Pier		
Circle correct answer:				
"New" turtle (not carrying any tags	or tao scars) 6	No .	
If no, then circle correct category				
1) Recapture of same project		n season	or multi-annual)	
2) Recapture of different pro				
3) Turtle has definite tag sc		3		
Tag return address (if other than M Carapace length straight line				
Carapace width straight line	cm cm		in	
Carapace length over curve	Cm	41	in in	
Carapace width over curve	cm	37	in	
Did turtle nest? Yes No Undet	ermined (circ	le one)		
Additional remarks or data (use back	k if necessar	y) RETURN	Ned 6-28-84 (NesT)	
7-27-84 (NesT) & 8-13-84 (NesT)				- 45
				1 5,000 2000 1
Organization Tagging Abterel Res	ources i E NU	in omenit	of Attains Division	



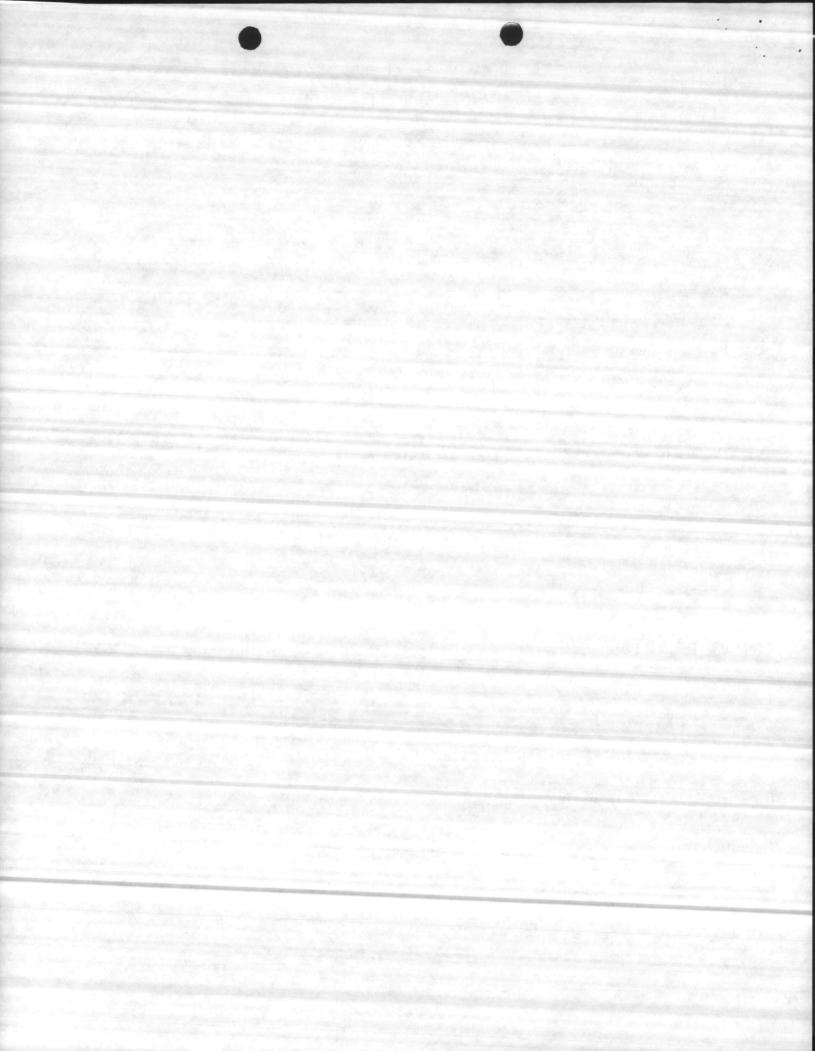
(list all tag	AR 095	Species <u>CC</u>		ate 6-12-84
"'s and letter Af	AR 096		E	ncountered
prefix)				
Describe location	encountered	3.45 of Risles	Pier	
			3	
Circle correct and	swer:			
"New" turtle (not	carrying any t	ans or tan scars) (Ye	s) No
If no, then circle			,	
		ct turtle (withi	n season o	r muiti-annual)
	e of different			
3) Turtle h	as definite tag	scar		
Tag return address	s (if other tha	in NMFS Lab/Vir K	ey)	
				in
Carapace length s	traight line	CID		
		cm		
Carapace width str	raight line _	Cm		_ in
Carapace width str	raight line _ ver curve _		38	
Carapace width str	raight line _ ver curve _	Cm	38	_ in
Carapace width str Carapace length over Carapace width over	raight line _ ver curve _ er curve _	cm cm	37	_ in _ in
Carapace width str Carapace length over Carapace width over	raight line _ ver curve _ er curve _	cm cm	37	_ in _ in
Carapace width str Carapace length over Carapace width over Did turtle nest?	raight line ver curve er curve Yes No Un	cm cm cm cm	37 le one)	in _ in _ in
Carapace width str Carapace length ove Carapace width ove Did turtle nest? Additional remarks	raight line ver curve er curve Yes No Un	cm cm cm cm determined (circ	37 le one)	_ in _ in
Carapace width str Carapace length over Carapace width over Did turtle nest?	raight line ver curve er curve Yes No Un	cm cm cm cm determined (circ	37 le one)	in _ in _ in
	raight line ver curve er curve Yes No Un	cm cm cm cm determined (circ	37 le one)	in _ in _ in
Carapace width str Carapace length or Carapace width ove Did turtle nest?	raight line ver curve er curve Yes No Un s or data (use	cm cm cm determined (circ back if necessar	37 le one) y) <u>Return</u>	_ in _ in _ in



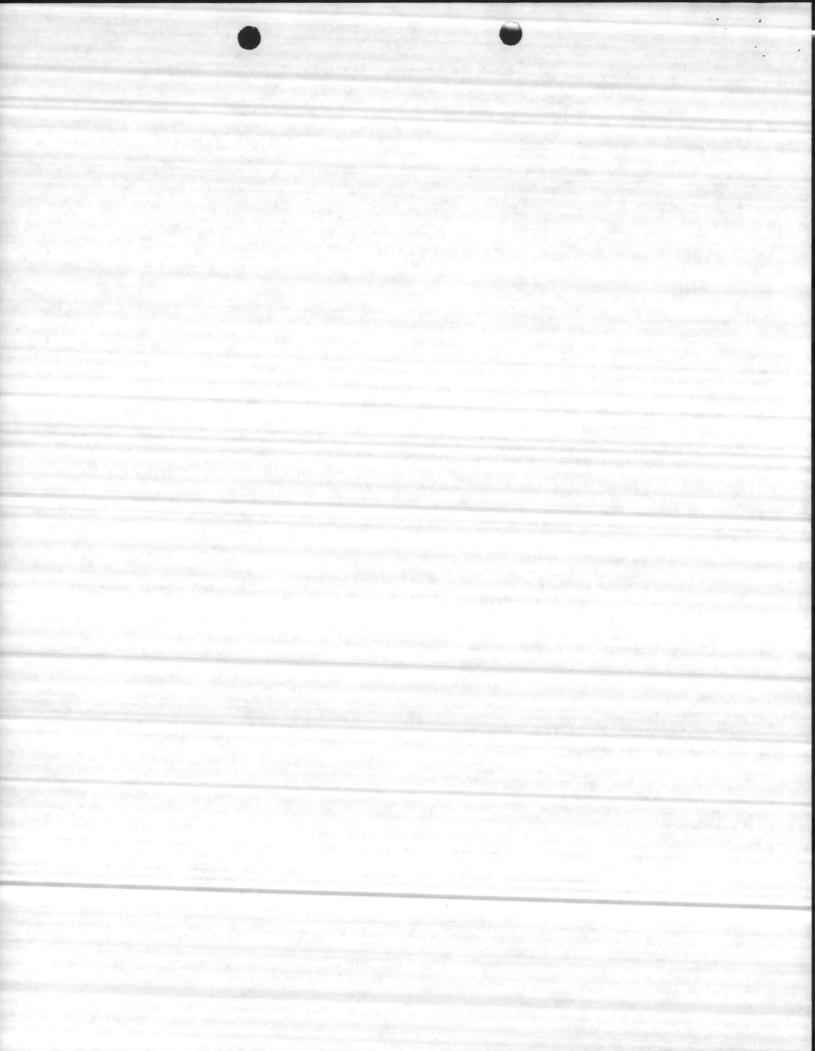
prefix)	820 SAA	_ Species <u>CC</u>		ate <u>6-13-84</u> ncountered
Describe locati	ion encountered	3.3 N of R	sky Pier	
		1		
Circle correct	answer:			
	not carrying any rcle correct cat	tags or tag scar	s) Ye	s) No
1) Recapt	ture of same pro	ject turtle (with	in season o	r multi-annual)
		t project turtle		
	has definite t			
Tag return addr	ress (if other t	han NMFS Lab/Vir	Key)	
Carapace length	n straight line	Cm		in
Carapace length		cm		in
Carapace width	straight line	cm	34,	_ in
Carapace width	straight line	cm	423 Ly	_ in _ in
Carapace width	straight line	cm	37 ¹ /2	_ in
Carapace width	straight line over curve over curve	cm	37/2	_ in _ in
Carapace width Carapace length Carapace width Did turtle nest	straight line n over curve over curve ? Yes No	cm cm cm	37/Z	_ in _ in
Carapace width Carapace length Carapace width Did turtle nest Additional rema	straight line over curve over curve ? Yes No 1	cm cm cm	37/Z cle one) ry) RETURN	_in _in _in
Carapace width Carapace length Carapace width Did turtle nest Additional rema	straight line over curve over curve ? Yes No 1	cm cm cm Undetermined (cir	37/Z cle one) ry) RETURN	_in _in _in
Carapace width Carapace length Carapace width Did turtle nest Additional rema	straight line over curve over curve ? Yes No I	cm cm cm Undetermined (cir	37 ¹ / ₂ cle one) ry) <u>RETURN</u> VesT	_in _in _in



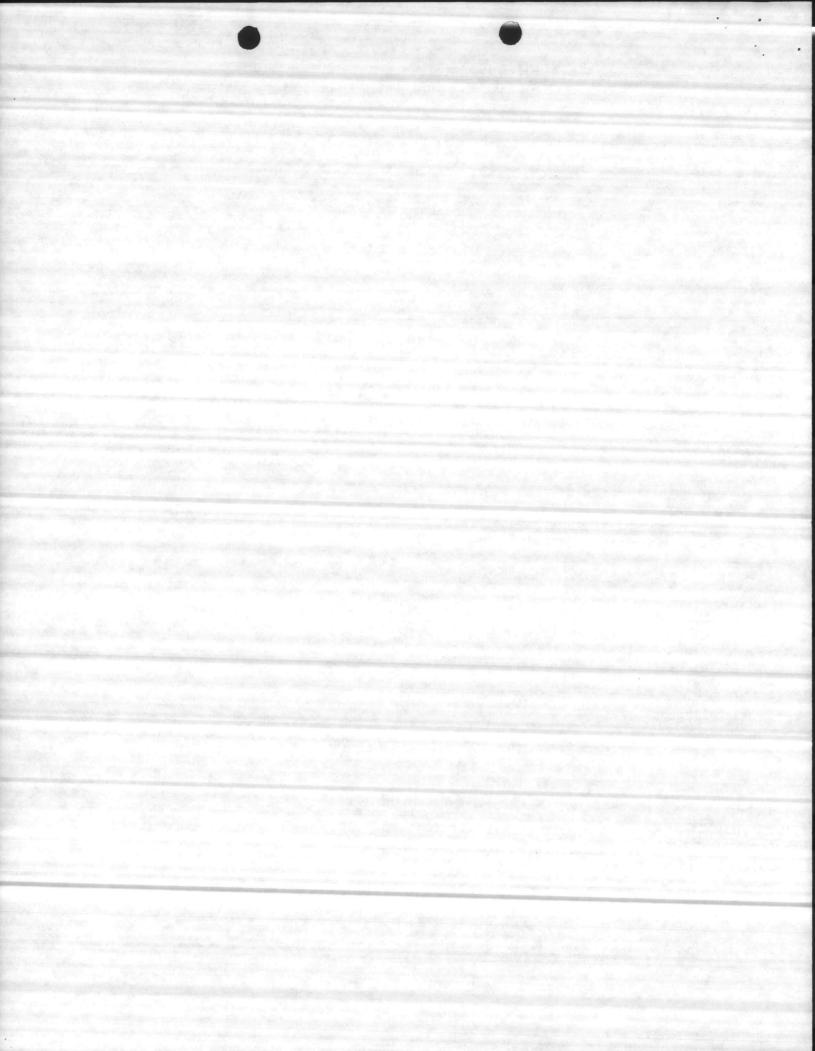
Tag Number(s)	AAR 099	Species CC		0-15-84
<pre>(list all tag #'s and letter prefix)</pre>	901 # SPR		Encount	ered
Describe locat	ion encountered	1.25 of Risky A	en	
Circle correct	answer:			
"New" turtle (not carrying any	y tags or tag scars)	Yes	No
If no, then cir	rcle correct cat	egory:		
. 1) Recapt	ture of same pro	ject turtle (within s	season or mult	i-annual)
2) Recapt	ture of differer	nt project turtle		
3) Turtle	has definite t	ag scar		
Tag return addr	ress (if other t	than NMFS Lab/Vir Key)		
Carapace length	straight line	cm	in	
Carapace width	straight line	cm	in	
Carapace length	over curve	cm	39 1/2 in	
Carapace width	over curve	cm	34 in	
Did turtle nest	? Yes No	Undetermined (circle	one)	
Additional rema	orks or data (us	se back if necessary)	RETURNED 7	-26-84 (NesT)
Additional rema	arks or data (us	se back if necessary)	RETURNED 7	-26-84 (Nest)
Additional rema	arks or data (us	se back if necessary)	RETURNED 7	-26-84 (NesT)
		Resources & Envir		



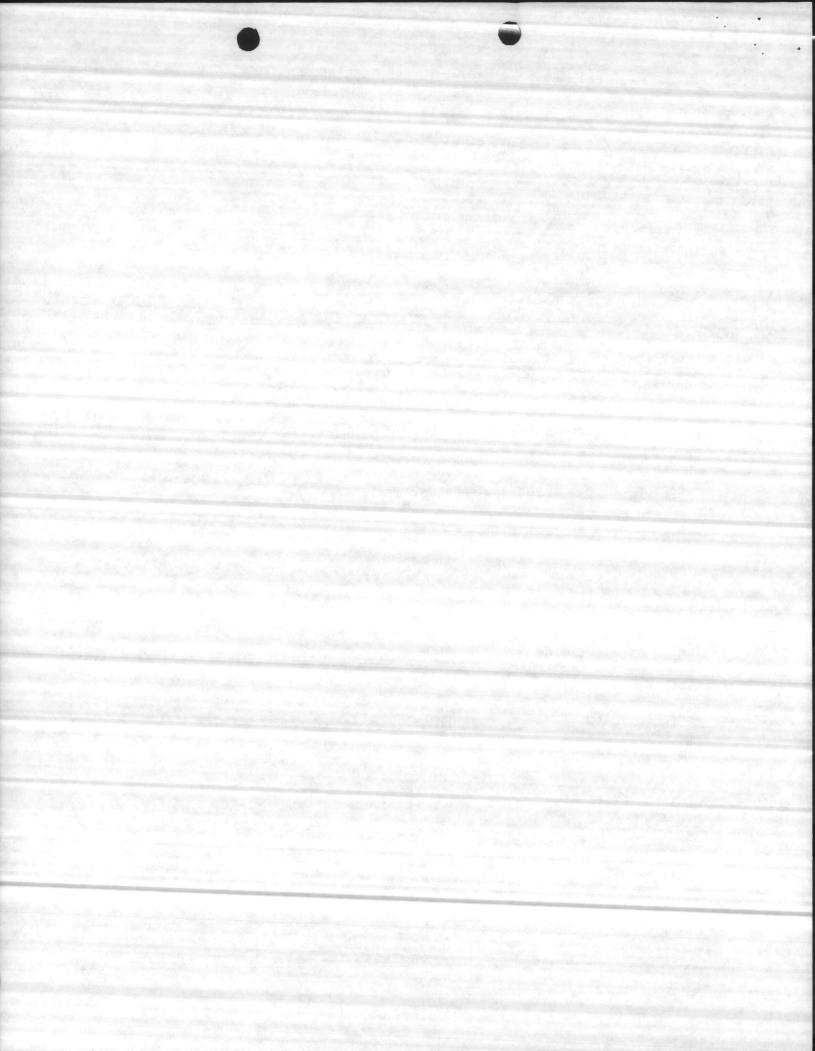
	AAR 101	_ Species <u>CC</u>		6-16-84
(list all tag #'s and letter prefix)	AAR* 102		Encoun	tered
		-		
Describe locati	ion encountered	3-3 N of Risk	y Pien	
				W. Bright Committee
Circle correct				
"New" turtle (r	not carrying any	tags or tag scars) (es)	No .
If no, then cir	rcle correct cat	egory:		
1) Recapt	ture of same pro	ject turtle (withi	n season or mul	ti-annual)
2) Recapt	cure of different	t project turtle		
3) Turtle	has definite to	ag scar		
3) Turtle	e has definite t	ag scar		
		ag scar han NMFS Lab/Vir K	ey)	
			ey)	
Tag return addr	ress (if other t		ey)	
Tag return addr	ress (if other the straight line		ey)in	
Tag return addr	ress (if other the straight line	han NMFS Lab/Vir K		
Tag return addr Carapace length Carapace width	ress (if other the straight line straight line	han NMFS Lab/Vir K	in	
Tag return addr Carapace length Carapace width Carapace length	ress (if other the straight line straight line over curve	han NMFS Lab/Vir K	in	
Tag return addr Carapace length Carapace width Carapace length Carapace width	ress (if other the straight line over curve over curve	han NMFS Lab/Vir Kcmcmcm	in in 47 /2 in 34 /8 in	
Tag return addr Carapace length Carapace width Carapace length Carapace width	ress (if other the straight line over curve over curve	han NMFS Lab/Vir Kcmcmcm	in in 47 /2 in 34 /8 in	
Tag return addr Carapace length Carapace width Carapace length Carapace width Did turtle nest	ress (if other the straight line over curve over curve	han NMFS Lab/Vir Kcmcmcm _cm	in in 47 ½ in 34 ½ in le one)	
Tag return addr Carapace length Carapace width Carapace length Carapace width Did turtle nest	ress (if other the straight line over curve over curve	han NMFS Lab/Vir Kcmcmcm	in in 47 ½ in 34 ½ in le one)	
Tag return addr Carapace length Carapace width Carapace length Carapace width Did turtle nest	ress (if other the straight line over curve over curve	han NMFS Lab/Vir Kcmcmcm _cm	in in 47 ½ in 34 ½ in le one)	
Tag return addr Carapace length Carapace width Carapace length Carapace width Did turtle nest	ress (if other the straight line over curve over curve	han NMFS Lab/Vir Kcmcmcm _cm	in in 47 ½ in 34 ½ in le one)	
Tag return addr Carapace length Carapace width Carapace length Carapace width Did turtle nest Additional rema	ress (if other the straight line straight line over curve over cur	han NMFS Lab/Vir Kcmcmcm _cm	in 47 1/2 in 34 1/8 in 34 1/8 in 1e one) y) Romento 1 A4	Gins Divisions



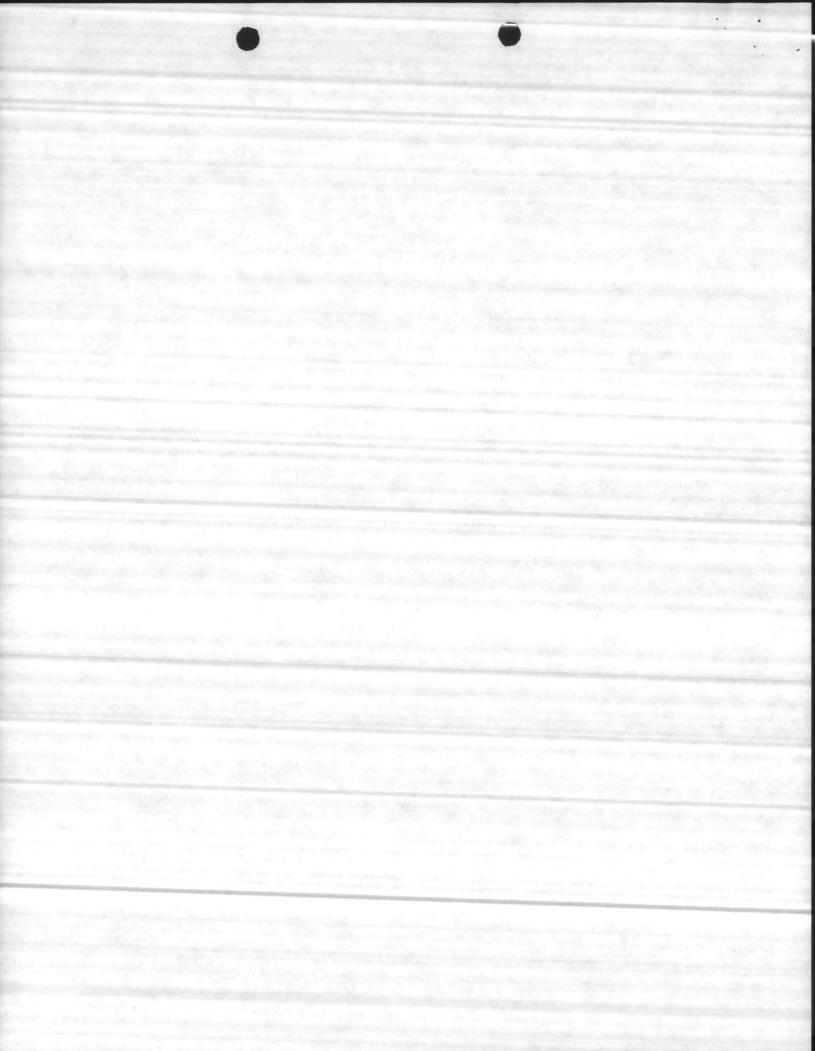
Tag Number(s) (list all tag	<u>AAR 103</u> S	pecies <u>CC</u>		Date 6-17-84 Incountered	
<pre>#'s and letter prefix)</pre>	AAR 104				
Describe locati	inn oncountered	225.0	,		
Describe rocat	ion encountered	(-33 of (F13	lay Mer		
Ci					
Circle correct					
"New" turtle (not carrying any tag	s or tag scars) (4	No No	
If no, then cir	rcle correct categor	y:			
1) Recapt	ture of same project	turtle (withi	n season o	or multi-annua	1)
2) Recapt	ture of different pr	oject turtle			
3) Turtle	has definite tag s	car			
Tag return addr	ress (if other than	NMFS Lab/Vir K	ey)		
					en e
	n straight line	cm	All appares	_ in	
Carapace width	straight line	cm	100	_ in	
Carapace length	over curve	cm	38	_ in	
Carapace width	over curve	cm	34	_ in	
	· · · · · ·				
Did turtle nest	? (Yes) No Unde	termined (circ	le one)		
Additional rema	arks or data (use ba	ck if necessar	v)		
				the second second second	
	agging No Aral Resou			Hairs Divis	ion
MARINE COR	ps Base, Camp L	egerne, NC	28542		



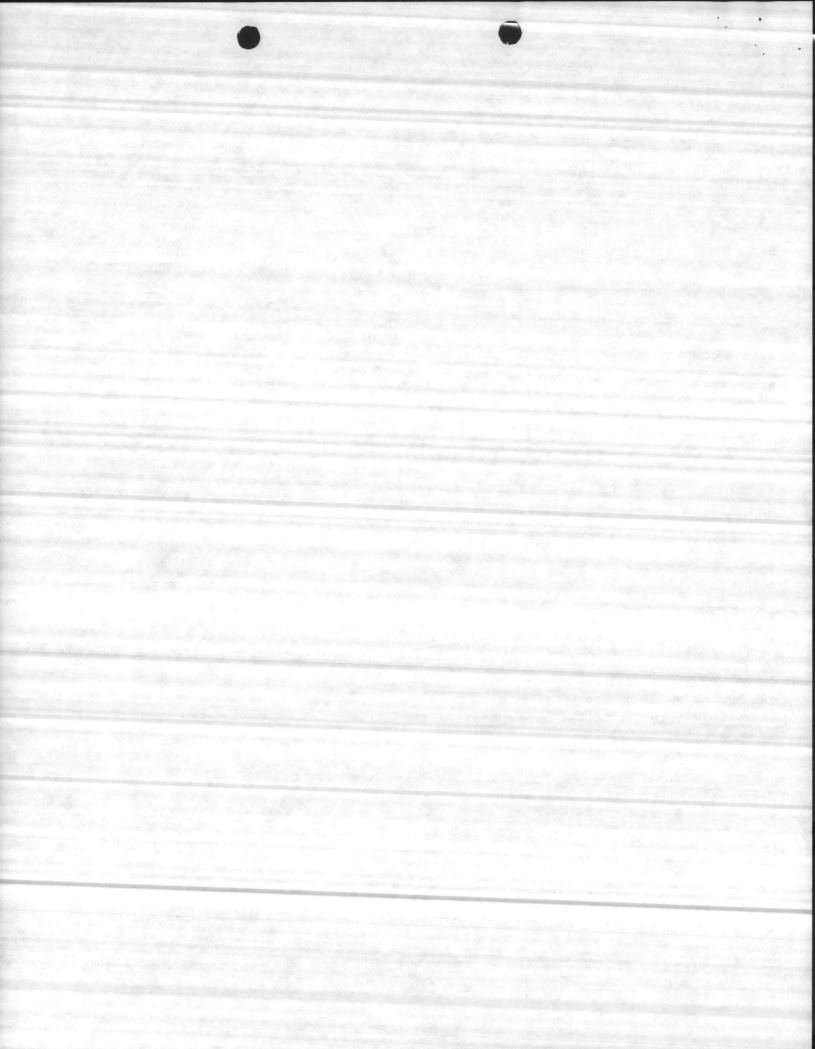
Tag Number(s) AAR 105	Species CC Date 6-22-84					
#'s and letter AAR 106 prefix)	Encountered					
Describe location encountered 2.95 5 of Risky Pier						
Circle correct answer:						
"New" turtle (not carrying any t	ags or tag scars) (Yes No					
If no, then circle correct categories	ory:					
1) Recapture of same project	ct turtle (within season or multi-annual)					
2) Recapture of different	project turtle					
 Turtle has definite tag 	scar					
Tag return address (if other than	n NMFS Lab/Vir Key)					
Carapace length straight line	cmin					
Carapace width straight line	cm in					
Carapace length over curve	${}$ cm ${3}\frac{3}{2}$ in					
Carapace width over curve	cm <u>35³/4</u> in					
Did turtle nest? (Yes) No Und	determined (circle one)					
Additional remarks or data (use t	pack if necessary) RETURNED 7-4-84 (NEST)					
7-16-84 (F.C.) 7-17-84 (Nest)						
7 16 07 (7-C.) 7-17-07 (Nest)	7-30-01 CNe31					
Organization Tagging 4: 1						
organization ragging Natural Ke	sources : FALIROMENTAL Affairs Division					



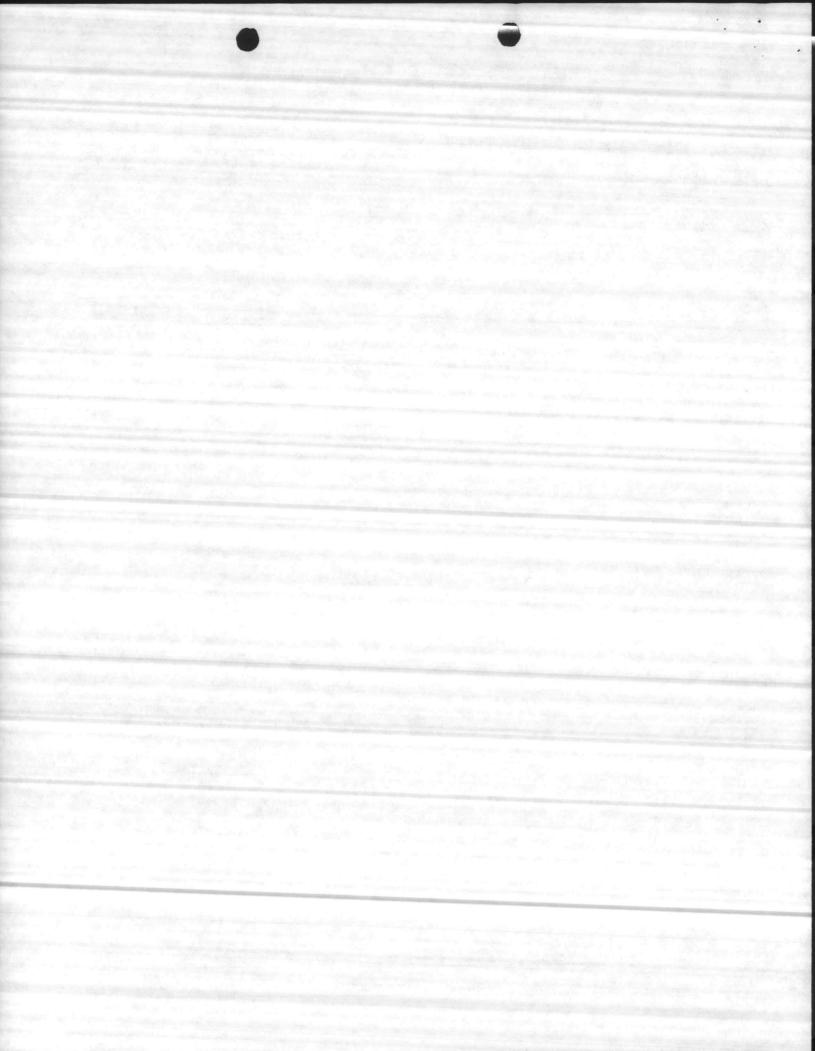
(list all tag #'s and letter	AAR 107	_ Species _CC	D	ate 6-22-84
orefix)	9AR2 108		E	ncountered
escribe locati	ion encountered _	1.65 of R.	sky Pier	
		- \	,	
Circle correct	answer:			
New" turtle (r	not carrying any	tags or tag sca	rs) (Ye	s) No
f no, then cir	rcle correct cate	egory:		
. 1) Recapt	ture of same pro:	ject turtle (wit	hin season o	r multi-annual)
2) Recapt	ture of different	t project turtle		
3) Turtle	e has definite to	ag scar		
			18 30	
Tag return addr	ress (if other th	han NMFS Lab/Vir	Key)	
Carapace length	n straight line	cm		_ in
		cm		_ in _ in
Carapace length Carapace width Carapace length	straight line		37*4	The state of the s
arapace width	straight line	cm	37/4	in
arapace width arapace length arapace width	straight line n over curve over curve	cm	34/2	in in
arapace width arapace length arapace width	straight line n over curve over curve	cm	34/2	in in
arapace width arapace length arapace width and turtle nest	straight line n over curve over curve t? Yes No t	cm cm cm cm Undetermined (ci	34/2	_ in _ in _ in
arapace width arapace length arapace width bid turtle nest	straight line n over curve over curve t? Yes No l	cm cm cm cm undetermined (ci	34½ rcle one) ary) <u>RETUR</u>	in in
arapace width arapace length arapace width bid turtle nest	straight line n over curve over curve t? Yes No t	cm cm cm cm undetermined (ci	34½ rcle one) ary) <u>RETUR</u>	_ in _ in _ in
arapace width arapace length arapace width did turtle nest dditional rema	straight line n over curve over curve t? Yes No tearks or data (use	cm cm cm cm cm cm cm defermined (cive back if necess column (cive back if necess) column (cive back if necess)	34 /2 rcle one) ary) <u>RETUR</u> (4 C Nest)	_ in _ in _ in



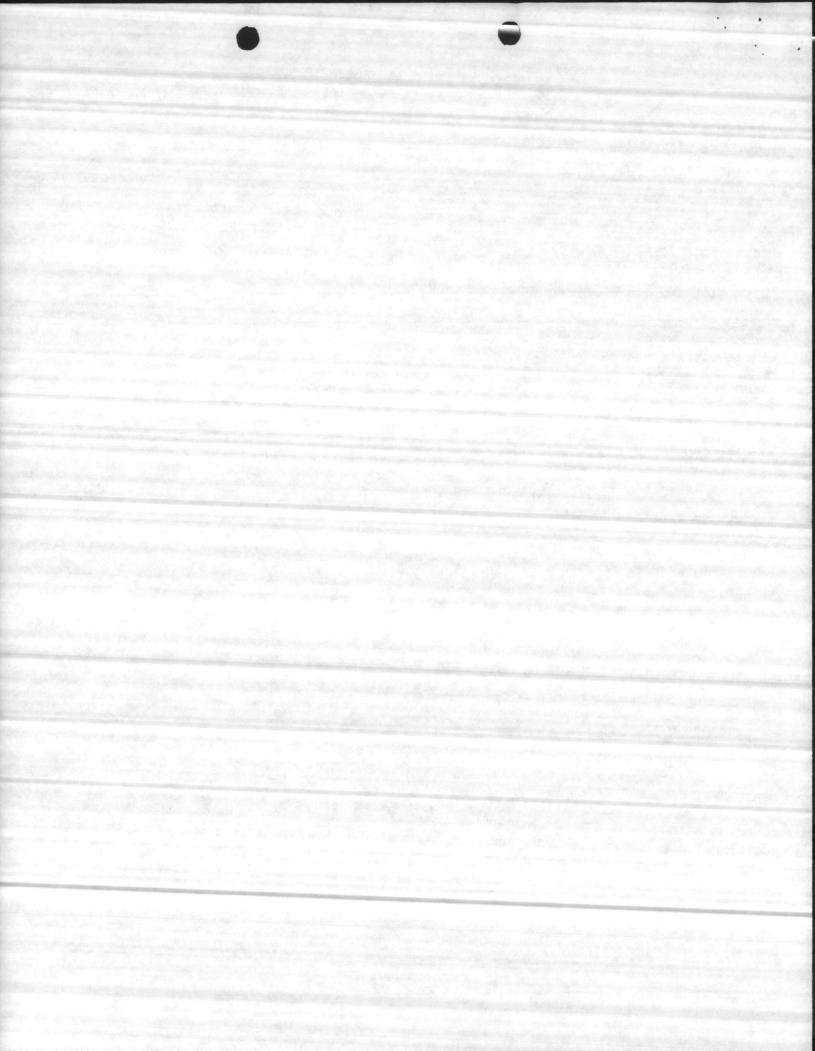
Tag Number(s)	AAR 169	Species CC	ALC: No. 1	Date 6-23-84	
<pre>(list all tag #'s and letter prefix)</pre>	AAR* 110	_		Encountered	
Describe locat	ion encountered _	3.7 Nof Ris	ky Pier		
Circle correct	answer:				
		tags or tag scar	s) 6	es) No	
	rcle correct cate				
			in season	or multi-annual)	
			-	or murci-ammual;	
and the second of	ture of different				
3) Turtle	e has definite ta	ag scar			
Tag return addr	ress (if other th	nan NMFS Lab/Vir	Key)		
			A Property of the Party of the	· College and College	
Carapace length	n straight line	cm	100	in `	
Carapace width	straight line	cm	_	in	
Carapace length	over curve	cm	42/2	in	
Carapace width	over curve	cm	38	in	
					•
Did turtle nest	? Yes No L	Indetermined (cir	cle one)		
Additional rema	arks or data (use	back if necessa	rv)		thou.
					The P
1.100-0176		The second secon			
				for Affairs Division	2 - 1 -
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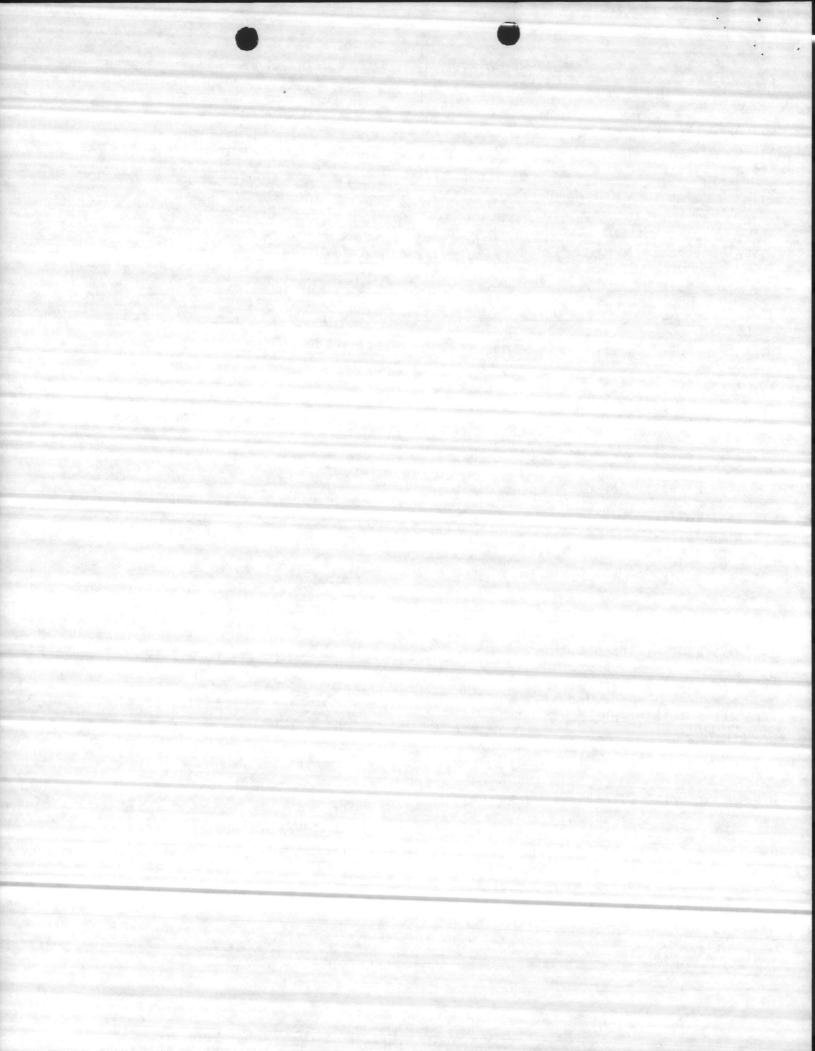
Tag Number(s)	AAR 111	_ Species <u>CC</u>		Date 6-27-84	
<pre>(list all tag #'s and letter prefix)</pre>	AAR 112			Encountered	
		-			
Describe locati	ion encountered _	3.4 Not Risk	Ly Pier		
			3		
			.3		and the second
Circle correct	ancwer.				
		tags or tag scar	s) (Y	es) No	
If no, then cir	rcle correct cate	egory:			
1) Recapt	ture of same proj	iect turtle (with	in season	or multi-annual)	
2) Recapt	ture of different	project turtle			
3) Turtle	has definite ta	ag scar	E		
Tag return addr	ess (if other th	nan NMFS Lab/Vir	Key)		
	and the second of the				
Carapace length	straight line				
		Cm		_ in	
Carapace width		Cm		in	
Carapace length	over curve	cm	42	in	
Carapace width	over curve	cm	37	in	
Did Aunaba anna					
Did turtle nest	res No L	Indetermined (cir	cle one)		
Additional rema	rks or data (use	e back if necessa	rv)		
					San Salasan
	egg n Cartie				
	to a separate the second state of the				described to the second
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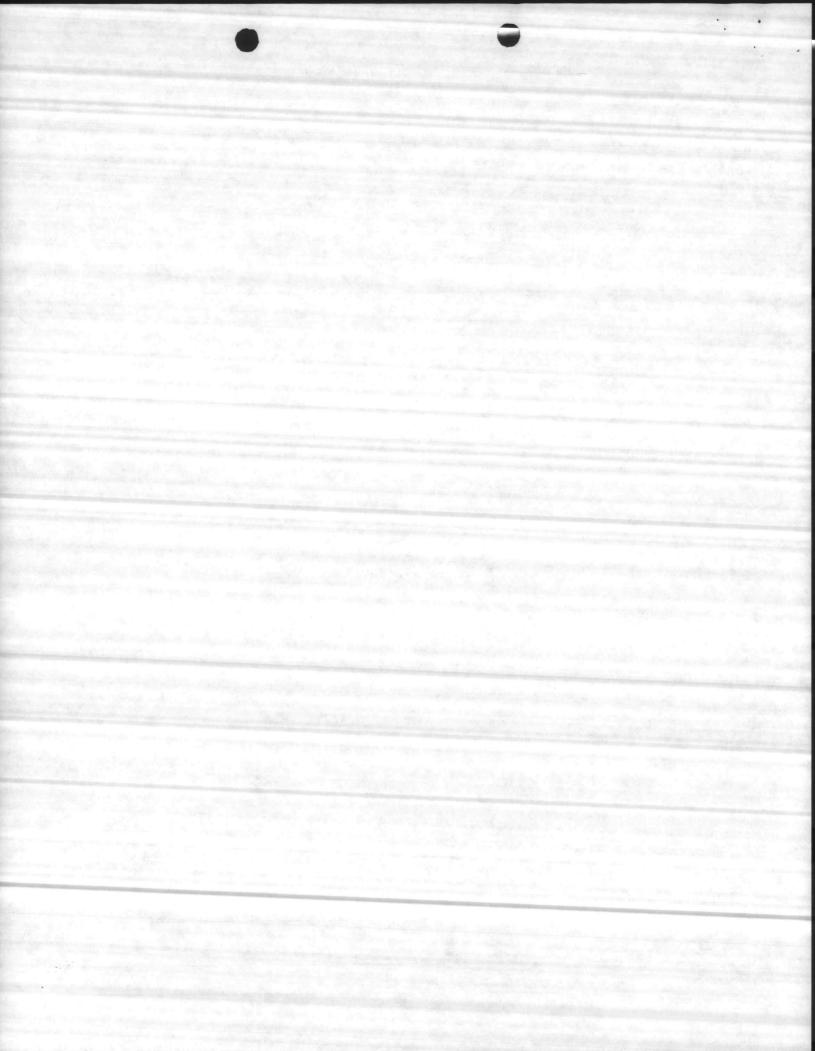
(list all tag #'s and letter		Species			Date _	6-28-84
	AAR* 114		-		Encoun	tered
prefix)						
Describe locati	ion encountered _	. GN	~ R.	ch Piz		
		·UN	470	ing their		
				,		
Circle correct	answer:					
"New" turtle (r	not carrying any	tags or ta	ag scar	s) (Y	es)	No .
If no, then cir	cle correct cate	egory:				
	ture of same proj		(with	in season	ינוש אט	ti-annual\
	ure of different			- Season	or mar	cr-amary
			Lurtie			
3) Turtle	has definite ta	ng scar				
Tan matuma addu		INCE (Talls the second
lag return addr	ess (if other th	ian NMFS La	ab/Vir	Key)		
						·
Carapace length	straight line		ст		in	
Carapace length			_ cm		in	
Carapace width	straight line		_ cm		in	
Carapace width	straight line over curve			411/2	in in	
Carapace width	straight line over curve		_ cm	411/2 371/2	in	
Carapace width Carapace length Carapace width	straight line over curve over curve	indet ermine	cm cm	411/2 371/2	in in	
Carapace width	straight line over curve over curve	Indetermine	cm cm	41/2 37/2 cle one)	in in	
Carapace width Carapace length Carapace width Did turtle nest	straight line over curve over curve		- _ cm _ cm _ cm		in in in	7-28-84 (No.T)
Carapace width Carapace length Carapace width Did turtle nest	straight line over curve over curve		- _ cm _ cm _ cm		in in in	7-28-84 (NesT)
Carapace width Carapace length Carapace width Did turtle nest	straight line over curve over curve		- _ cm _ cm _ cm		in in in	7-28-84 (NesT)
Carapace width Carapace length Carapace width Did turtle nest Additional rema	straight line over curve over curve ? Yes No U	e back if r	cm cm cm	ary) <u>RETUR</u>	in in in	
Carapace width Carapace length Carapace width Did turtle nest Additional rema	straight line over curve over curve ? Yes No U	Personne	cm cm cm	Nuncome	in in in	7-28-84 (NesT) Affairs Division



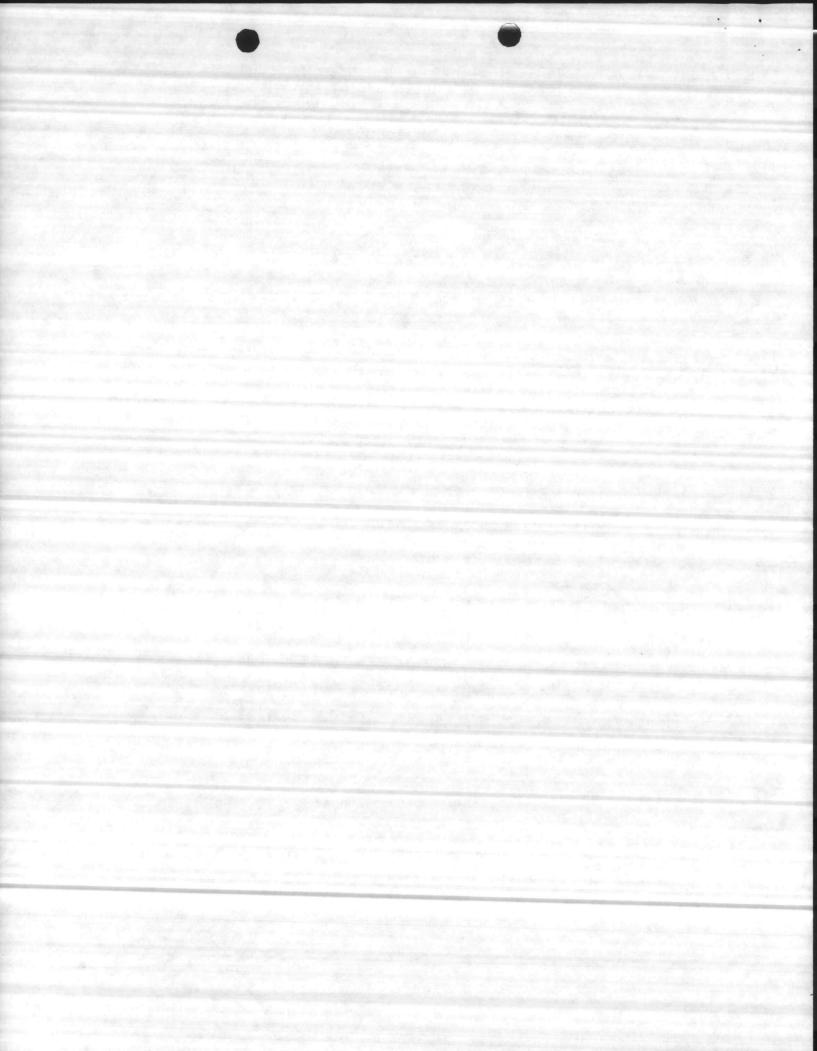
Tag Number(s) AAR 115 Sp (list all tag #'s and letter AAR 116 prefix)	ecies <u>CC</u>	Di Er	ate <u>6-28-84</u> ncountered
Describe location encountered	7.15 of R.	sky Pier	
		, a	
Circle correct answer:		***	
"New" turtle (not carrying any tags	or tag scar	s) Yes	No
If no, then circle correct category	•		
1) Recapture of same project	turtle (with	in season o	r multi-annual)
2) Recapture of different pro			
 Turtle has definite tag sc 	ar .		
Tag return address (if other than N	MFS Lab/Vir	Key)	
Carapace length straight line	cm		in .
Carapace width straight line	cm		in
Carapace length over curve	cm	39/2	in
Carapace width over curve	cm	38	_ in
Did turtle nest? Yes No Undet	ermined (cir	cle one)	
Additional remarks or data (use bac	k if necessa	ry)	
		Property and the second	4 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T
Control of the second s			
Organization Tagging Notrol Re	sources i Er	L,120mental	Affairs Division
MARINE CORPS BASE CAMP L	eterne, NC	28542	



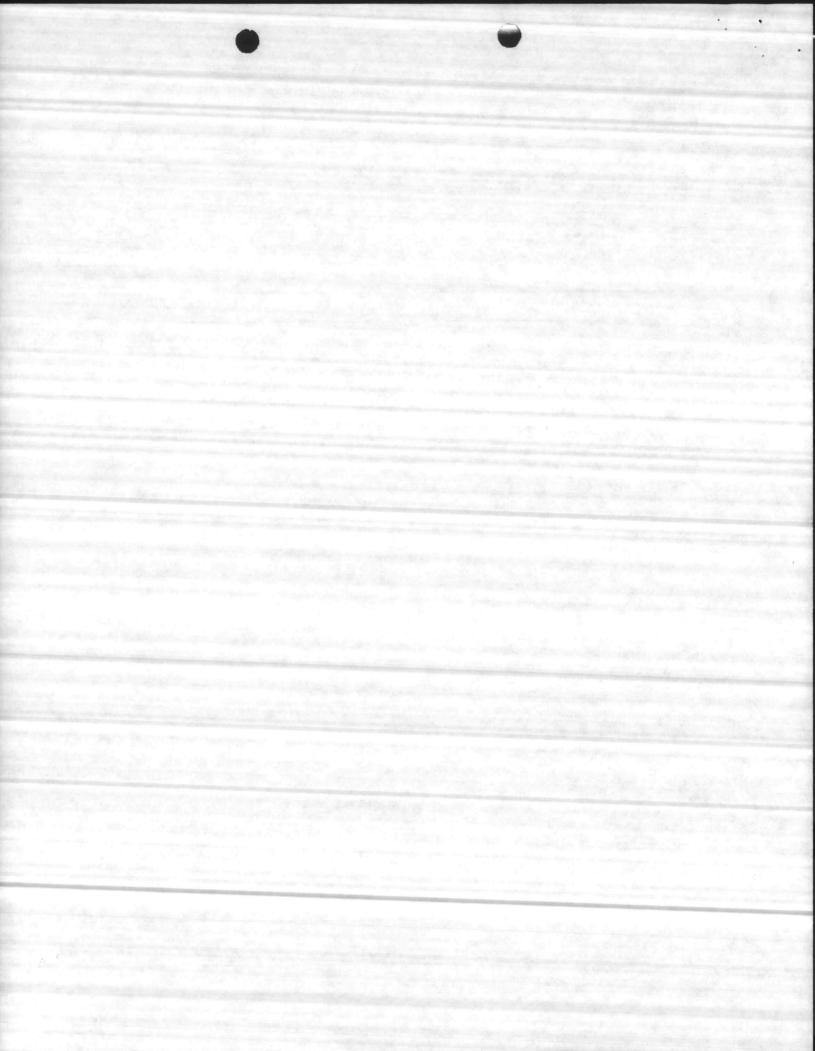
(list all tag	ecies <u>CC</u>	Date _7-/1-84
#'s and letter AAR 1/18 prefix)		Encountered
pret (x)		
Describe location encountered	.65 of Risely F	2:612
	,	
		and a second
Circle correct answer:		
"New" turtle (not carrying any tags	or tag scars)	Yes No
If no, then circle correct category		
1) Recapture of same project	turtle (within s	eason or multi-annual)
2) Recapture of different pro		
Turtle has definite tag sc	ar	
The meture address (if other than N		
Tag return address (if other than N	MFS Lab/Vir Key)	
Carapace length straight line	cm	in
		in
Carapace width straight line	crfi	in
Carapace width straight line Carapace length over curve		inin
Carapace width straight line Carapace length over curve	crfi	in
Carapace width straight line Carapace length over curve Carapace width over curve	cm cm	in 41 in 38/2 in
Carapace width straight line Carapace length over curve Carapace width over curve	cm	in 41 in 38/2 in
Carapace width straight line Carapace length over curve Carapace width over curve Did turtle nest? Yes No Undet	cm cm cm	in 41 in 38/2 in
Carapace width straight line Carapace length over curve Carapace width over curve Did turtle nest? Yes No Undet	cm cm cm	in 41 in 38/2 in
Carapace width straight line Carapace length over curve Carapace width over curve Did turtle nest? Yes No Undet	cm cm cm	in 41 in 38/2 in
Carapace length straight line Carapace width straight line Carapace length over curve Carapace width over curve Did turtle nest? Yes No Undet Additional remarks or data (use bac	cm cm cm	in 41 in 38/2 in
Carapace width straight line Carapace length over curve Carapace width over curve Did turtle nest? Yes No Undet	cm cm ermined (circle	in 41 in 38/2 in one)



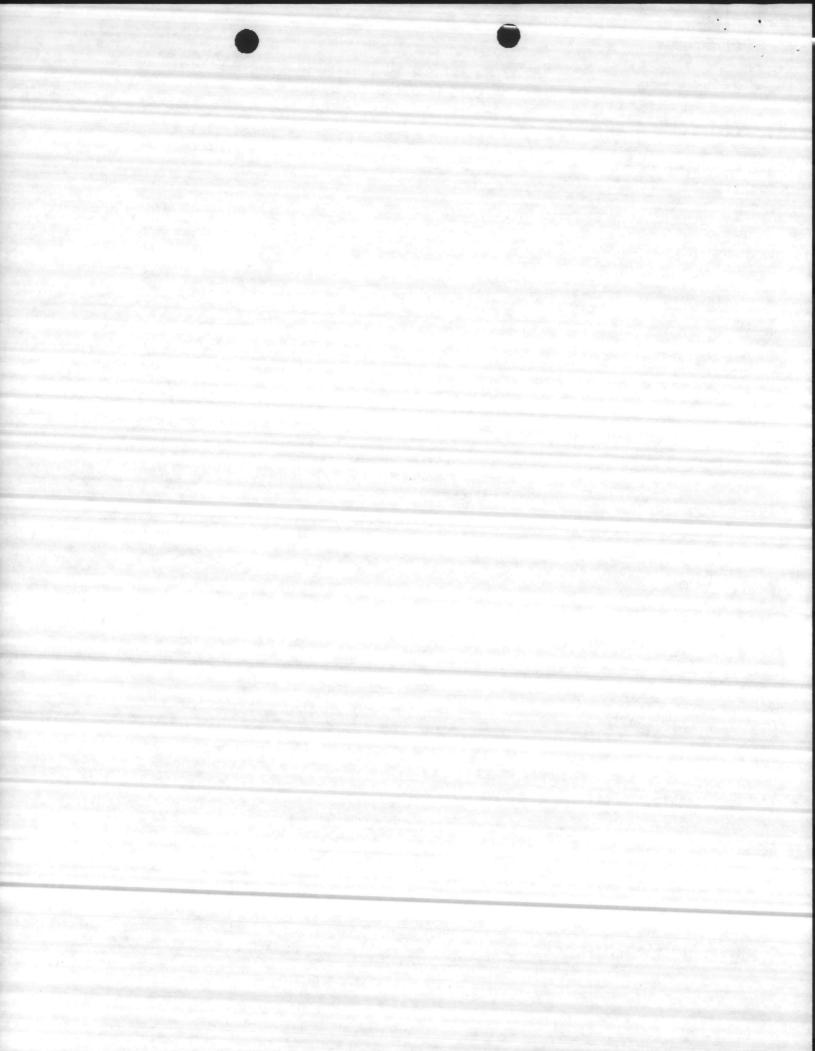
(list all tag	Tag Momber(s)	AAR 119	_ Species _ CC		Date 1-11-84
Circle correct answer: "New" turtle (not carrying any tags or tag scars) If no., then circle correct category: 1) Recapture of same project turtle (within season or multi-annual) 2) Recapture of different project turtle 3) Turtle has definite tag scar Fag return address (if other than NMFS Lab/Vir Key) Caracace length straight line	's and letter	AAR 120	_		Encountered
Circle correct answer: "New" turtle (not carrying any tags or tag scars) 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 [ag return address (if other than NMFS Lab/Vir Key) Caracter length straight line			-		
Circle correct answer: "New" turtle (not carrying any tags or tag scars) 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 Fag return address (if other than NMFS Lab/Vir Key) Caracace length straight line	Describe locati	ion encountered	375 of Pise	4 Pier	
"New" turtle (not carrying any tags or tag scars) 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					
"New" turtle (not carrying any tags or tag scars) 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 om in Carapace width straight line om in Carapace length over curve om in Carapace width over curve om in Did turtle nest? Yes No Undetermined (circle one) Additional remarks or data (use back if necessary) RETURNED 7-23-84C.F.C) 7-23-84(Nest) 8-5-84(F.C.) 8-6-84(Nest)					
"New" turtle (not carrying any tags or tag scars) 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 om in Carapace width straight line om in Carapace length over curve om in Carapace width over curve om in Did turtle nest? Yes No Undetermined (circle one) Additional remarks or data (use back if necessary) RETURNED 7-23-84C.F.C) 7-23-84(Nest) 8-5-84(F.C.) 8-6-84(Nest)	Circle correct	answer:			
If nc, 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			tags on the servi		- No.
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) Caracace length straight line				(s) Q	es) No
2) Recapture of different project turtle 3) Turtle has definite tag scar Tag return address (if other than NMFS Lab/Vir Key) Caracace length straight line					
Tag return address (if other than NMFS Lab/Vir Key) Caracace length straight line	1) Recapt	ture of same pro	ject turtle (with	nin season	or multi-annual)
Tag return address (if other than NMFS Lab/Vir Key) Caracace length straight line	2) Recapt	ure of different	t project turtle		
Carapace length straight line cm in Carapace width straight line cm in Carapace length over curve cm	3) Turtle	has definite t	ag scar	3	
Carapace length straight line cm in Carapace width straight line cm in Carapace length over curve cm					
Carapace width straight line cm in Carapace length over curve cm 38/4 in Carapace width over curve cm 37/2 in Did turtle nest? Yes No Undetermined (circle one) Additional remarks or data (use back if necessary) RETURNED 7-23-84(.F.C) 7-23-84(Nest) 8-5-84(F.C) 8-6-84(Nest)	Tag return addr	ess (if other the	han MMFS Lab/Vir	Key)	
Carapace width straight line cm in Carapace length over curve cm 38/4 in Carapace width over curve cm 37/2 in Did turtle nest? Yes No Undetermined (circle one) Additional remarks or data (use back if necessary) RETURNED 7-23-84(.F.C) 7-23-84(Nest) 8-5-84(F.C) 8-6-84(Nest)					•
Carapace width straight line cm in Carapace length over curve cm 38/4 in Carapace width over curve cm 37/2 in Did turtle nest? Yes No Undetermined (circle one) Additional remarks or data (use back if necessary) RETURNED 7-23-84(.F.C) 7-23-84(Nest) 8-5-84(F.C) 8-6-84(Nest)	Caracace length	straight line			
Carapace length over curve cm 38/4 in Carapace width over curve cm 37/2 in Did turtle nest? Yes No Undetermined (circle one) Additional remarks or data (use back if necessary) RETURNED 7-23-84(F.C) 7-23-84(Mest) 8-5-84(F.C) 8-6-84(Mest)				and the second	
Carapace width over curve cm 37½ in Did turtle nest? Yes No Undetermined (circle one) Additional remarks or data (use back if necessary) RETURNED 7-23-84(.F.C) 7-23-84(Nest) 8-5-84(F.C) 8-6-84(Nest)			c m		<u> </u>
Did turtle nest? Yes No Undetermined (circle one) Additional remarks or data (use back if necessary) RETURNED 7-23-84(.F.C) 7-23-84(Nest) 8-5-84(F.C) 8-6-84(Nest)	Carapace length	over curve	cm	38/4	in
Additional remarks or data (use back if necessary) RETURNED 7-23-84(F.C) 7-23-84(Nest) 8-5-84(F.C) 8-6-84(Nest)	Carapace width	over curve	cm	37/2	in
Additional remarks or data (use back if necessary) RETURNED 7-23-84(.F.C) 7-23-84(Mest) 8-5-84(F.C) 8-6-84(Mest)					
7-23-84(Nest) 8-5-84(F.C) 8-6-84(Nest)	Did turtle nest	? (Yes) No I	Undetermined (cir	cle one)	
7-23-84(Nest) 8-5-84(F.C) 8-6-84(Nest)	Additional noma	onke on data (us	o book és	10-	
					RNED 7-23-84 (.F.C)
Organization Tanging 44/2/2	7-23-84 CM	(5T) 8-3-84C	E.C) 8-6-84 C	NesT)	
Organization Tanging Add and Province			Maria Carante		
TI TO THE PARTY OF THE PROPERTY OF THE PROPERT	Organization Ta	agging Nalas	Promoces & Francis	Damen L'O	ACC AS DIVISION
Organization Tagging Natural Resources ; ENLIROMEN tol Affairs Division	Mac C.	an Pro Ca	1 110	- 5 - CLIC	17461113 10131014



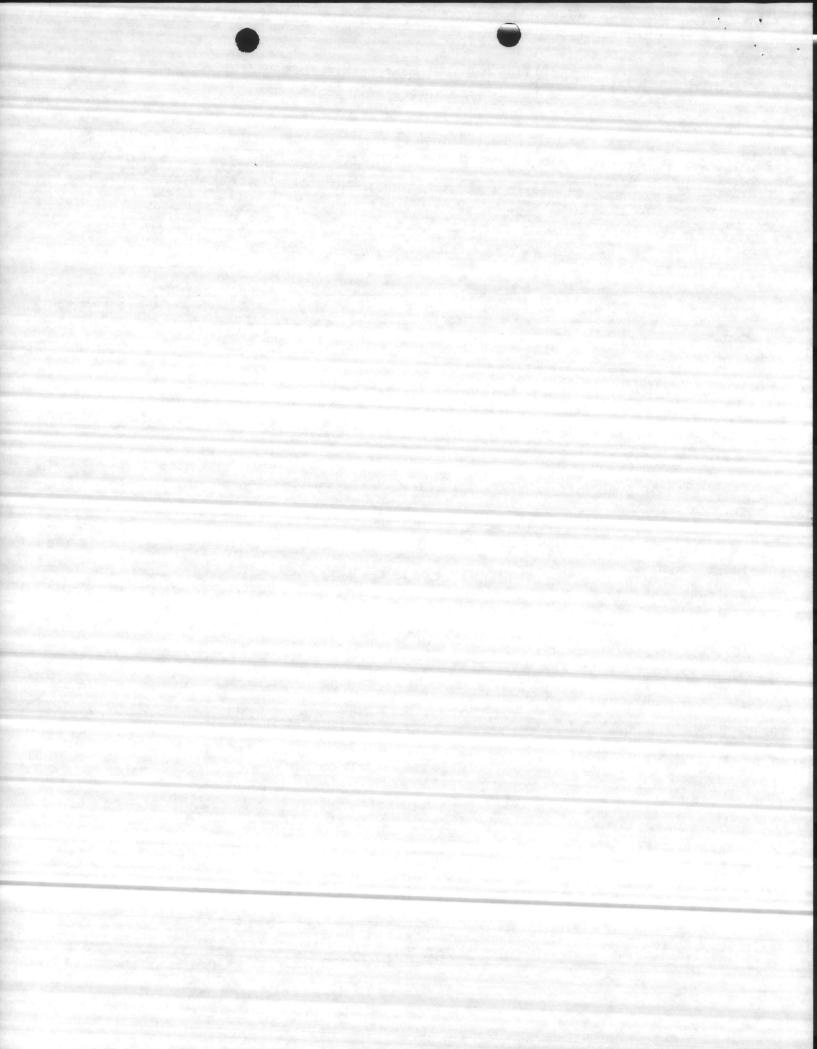
(list all tag #'s and letter	AAR 121	Species <u>CC</u>		ate 7-15-84		
prefix)	AAR 122		E	ncountered		
Describe location encountered 1.9N of Risely Pier						
Circle correct	answer:					
"New" turtle (n	not carrying any	tags or tag scars	(Ye	s) No		
If no, then cir	cle correct cate	egory:				
1) Recapt	ure of same proj	ect turtle (withi	n season o	r multi-annual)		
2) Recapt	ure of different	project turtle		And the second of the second o		
3) Turtle	has definite ta	ng scar	1			
Tag return addr	ess (if other th	nan MMFS Lab/Vir K	(ey)			
Carapace length	straight line	cm		_ in		
		cm		_ in		
Carapace length Carapace width Carapace length	straight line		37/2			
Carapace width	straight line	cm	37/2	in :		
Carapace width Carapace length Carapace width	straight line over curve over curve	cm cm cm	35	in in		
Carapace width Carapace length Carapace width	straight line over curve over curve	cm	35	_ in _ in		
Carapace width Carapace length Carapace width Oid turtle nest	straight line over curve over curve ? Yes No U	cm cm cm cm	35 : Te one)	_ in _ in _ in		
Carapace width Carapace length Carapace width Oid turtle nest	straight line over curve over curve ? Yes No U	cm cm cm cm	35 : Te one)	in in		
Carapace width Carapace length Carapace width Did turtle nest	straight line over curve over curve ? Yes No U	cm cm cm cm	35 : Te one)	_ in _ in _ in		
Carapace width Carapace length Carapace width Oid turtle nest	straight line over curve over curve ? Yes No U rks or data (use	cmcmcmcmcmcmcmcmcmcmcmcmcm	35 The one) Ty) RETUR	_ in _ in _ in		



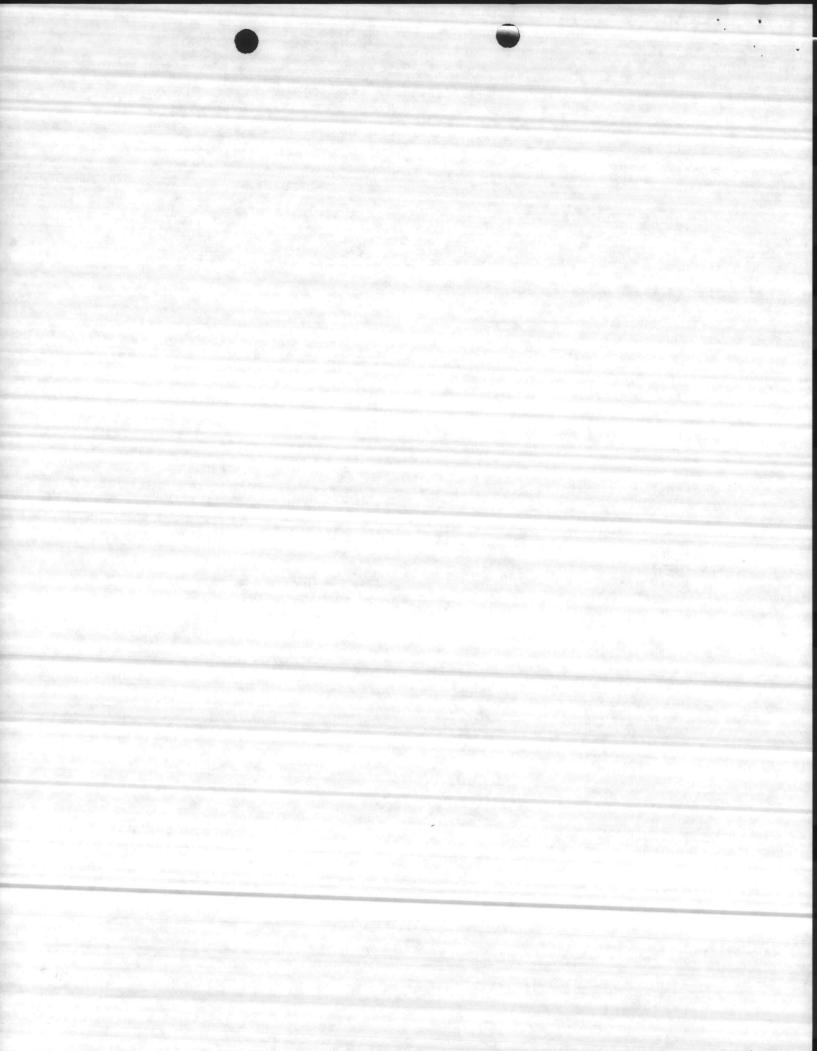
Circle correct answer:				3
"New" turtle (not carrying any tags	or tag scar	s) (e	No No	
If no, then circle correct category				
1) Recapture of same project	turtle (with	in season c	r multi-annua	1)
				padie – ere pp
Recapture of different pro				
3) Turtle has definite tag sc		and I		
3) Turtle has definite tag sc	ar			
3) Turtle has definite tag sc	ar	(ey)		
	ar	(ey)		
3) Turtle has definite tag sc	ar	(ey)	in	
3) Turtle has definite tag sc Tag return address (if other than N Carapace length straight line	ar MFS Lab/Vir	(ey)	_ in	
3) Turtle has definite tag sc Tag return address (if other than N	ar MFS Lab/Vir		_ _ in	
3) Turtle has definite tag sc Tag return address (if other than N Carapace length straight line Carapace width straight line Carapace length over curve	ar MFS Lab/Vir	39/2	in in	
3) Turtle has definite tag sc Tag return address (if other than N Carapace length straight line Carapace width straight line Carapace length over curve Carapace width over curve	ar MFS Lab/Vir		_ _ in	
3) Turtle has definite tag sc Tag return address (if other than N Carapace length straight line Carapace width straight line Carapace length over curve Carapace width over curve	ar MFS Lab/Vir	39½ 35½	in in	



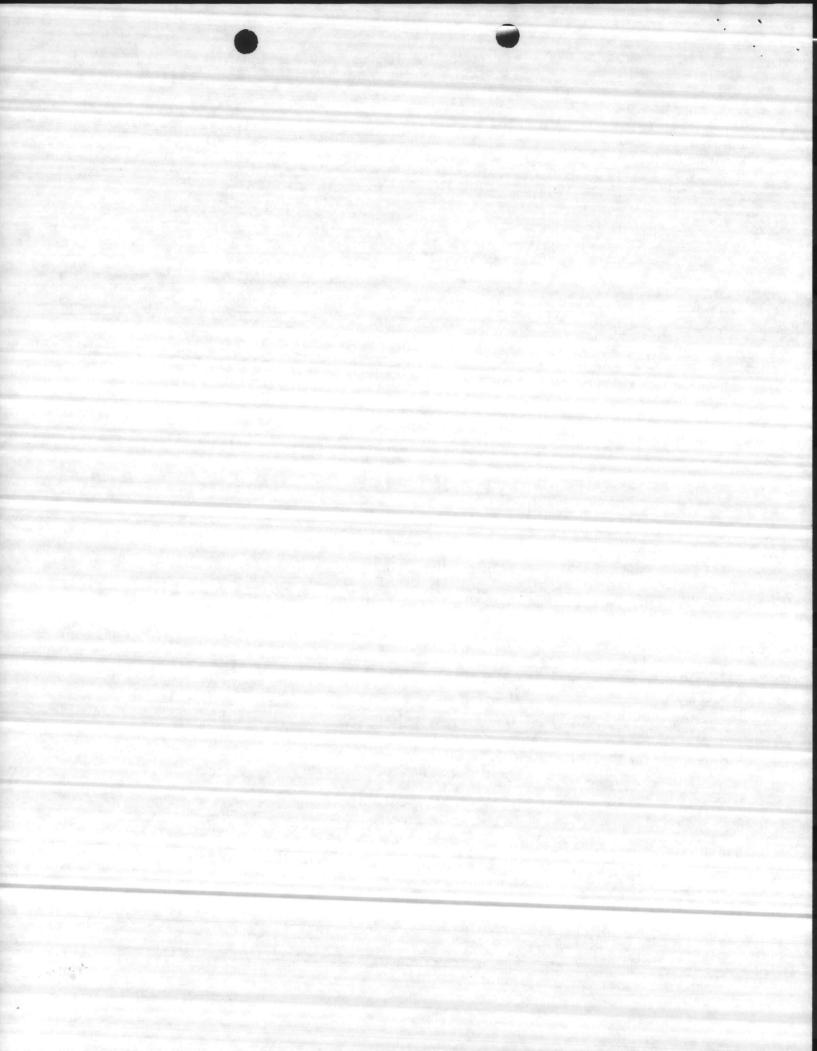
Tag Number(s) AAR 125 Sp (list all tag #'s and letter AAR 126 prefix)	ecies <u>CC</u>		te <u>7-24-84</u> countered
Describe location encountered 3.	3,N ex Risk	y Pien	
Circle correct answer:			
		\ (V	
"New" turtle (not carrying any tags) Yes) No
If no, then circle correct category			and the second s
1) Recapture of same project		n season or	multi-annual)
Recapture of different pro			
Turtle has definite tag sc	ar		
Tag return address (if other than N	MFS Lab/Vir K	ey)	
Carapace length straight line	cm		in
Carapace width straight line	cm	merkapen sesang banda Alban, ang sesang sesang Alban, ang sesang	in
Carapace length over curve	cm	36	in
Carapace width over curve	cm	34 1/2	in
Did turtle nest? Yes No Undet	ermined (circ	le one)	
Additional remarks or data (use bac	k if necessar	y) <u>RETURNE</u>	FD 7-25-84 (NesT)
		Allen Salar Salar	
Organization Tagging Notero/ Rex MARINE CONDS BASE CAMP LE	verces ; ENLI	romento	1 Affairs Division



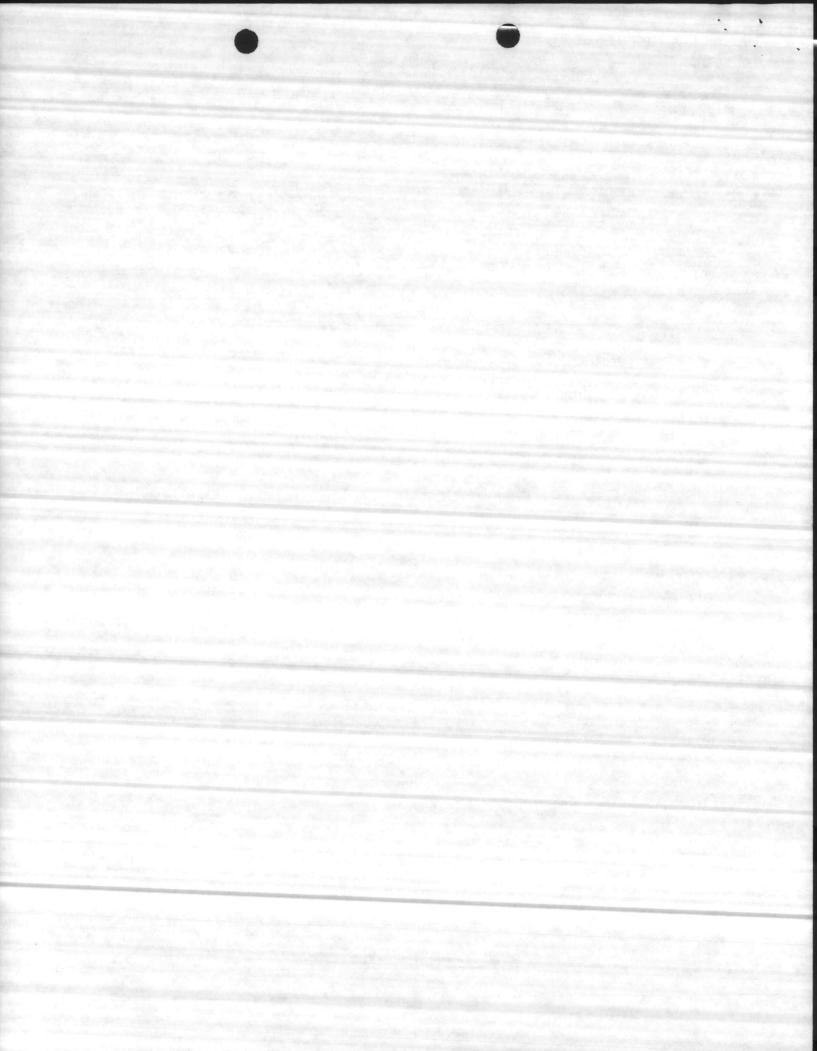
lag Number(s) AAR 127 Spe (list all tag #'s and letter AAR 128 prefix)	ecies <u>CC</u>		Date Encoun	17-24-84 tered
Describe location encountered	Sof Risk	y Pien Ci	vesTET	O under pier)
Circle correct answer:				
"New" turtle (not carrying any tags	or tag scar	s) (Ye	es	No .
If no, then circle correct category:				
1) Recapture of same project t	turtle (with	in season (or mul	ti-annual)
2) Recapture of different proj	ject turtle			
3) Turtle has definite tag sca	ar	÷		
Tag return address (if other than №	MFS Lab/Vir	Key)		
Carapace length straight line	C:II		in	
Carapace width straight line	crfi		_ in	
Carapace length over curve	cm	38	in	
Carapace width over curve	cm	35/2	_ in	
Did turtle nest? (es) No Undete	ermined (cir	cle one)		
Additional remarks or data (use back	if necessa	ry)		
The second secon				
ALL THE PERSON LAND AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED				



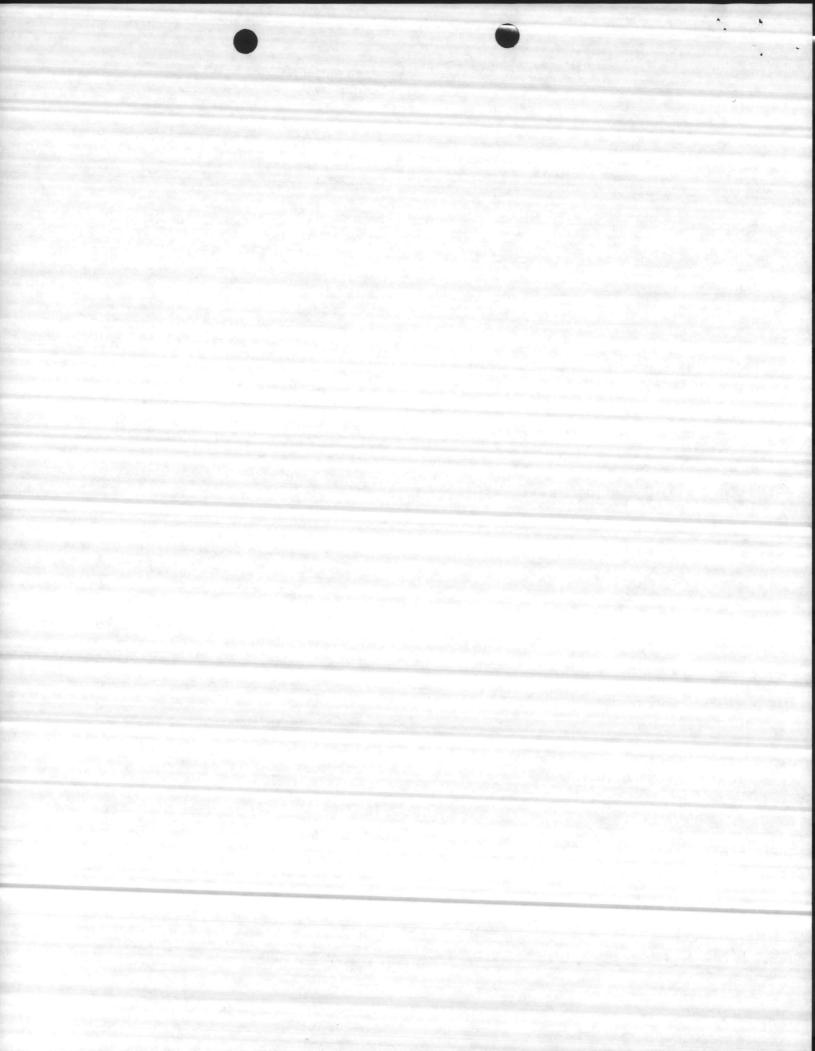
Tao Number(s) APR 129 Sp (list all tag f's and letter APR 130 prefix)	ecies <u>CC</u>	Date <u>7-28-8</u> Encountered	34
Describe location encountered	1.5 of Risky Pier		The state of the s
Circle correct answer:			
"New" turtle (not carrying any tags	or tag scars)	Yes (No)	z. 25
If no, then circle correct category	·:		
1) Recapture of same project	turtle (within sea	son or multi-annua	1)
2) Recapture of different pro	ject turtle		Service Committee
3) Turtle has definite tag so	ar		
Tag return address (if other than Manager Carapace length straight line	MFS Lab/Vir Key) _	in	
Carapace width straight line		in	
	cm		
Carapace length over curve	cm	in	
Carapace width over curve	cm	in	
Did turtle nest? Yes No Under	cermined (circle or	ne)	
Additional remarks or data (use back	ck if necessary) _		
AND CONTRACTOR OF THE CONTRACT			
Organization Tagging Natural Res	vences & FALIROM	ental Affairs Di	1'S I'ON
MADILE CORM BASE CAND LA	Trune AC 285	42	



Describe location encountered		ate 8-5-84		pecies <u>CC</u>	AAR 131	Tag Number(s)
Circle correct answer: "New" turtle (not carrying any tags or tag scars) 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		ncountered	Er		AAR" 132	<pre>(list all tag #'s and letter prefix)</pre>
Circle correct answer: "New" turtle (not carrying any tags or tag scars) 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						
Circle correct answer: "New" turtle (not carrying any tags or tag scars) 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			4 Pier	DIN al Rise	on encountered	Describe locati
"New" turtle (not carrying any tags or tag scars) 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			9	7 11/3		
"New" turtle (not carrying any tags or tag scars) 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			Contract to			
"New" turtle (not carrying any tags or tag scars) 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						
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 in Carapace width straight line cm in Carapace length over curve cm 38 \frac{1}{4} in Carapace width over curve cm 35 \frac{1}{2} in					answer:	Circle correct
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		s) No	Yes	s or tag scars	ot carrying any t	"New" turtle (r
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				y:	cle correct cated	If no, then cir
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		r multi-annual)	n season or	turtle (with	ure of same proje	1) Recapt
Tag return address (if other than NMFS Lab/Vir Key) Carapace length straight line				oject turtle	ure of different	2) Recapt
Tag return address (if other than NMFS Lab/Vir Key) Carapace length straight line			<u> </u>	ar	has definite tag	3) Turtle
Carapace length straight line in in in cm in cm in cm in cm in cm in cm						
Carapace width straight line $\frac{1}{2}$ cm $\frac{1}{2}$ in Carapace length over curve $\frac{1}{2}$ cm $\frac{1}{2}$ cm $\frac{1}{2}$ in $\frac{1}{2}$ cm $\frac{1}{2}$ in			(ey)	MFS Lab/Vir	ess (if other tha	Tag return .addr
Carapace width straight line $\frac{1}{2}$ cm $\frac{1}{2}$ in Carapace length over curve $\frac{1}{2}$ cm $\frac{1}{2}$ cm $\frac{1}{2}$ in $\frac{1}{2}$ cm $\frac{1}{2}$ in						
Carapace width straight line $\frac{1}{2}$ cm $\frac{1}{2}$ in Carapace length over curve $\frac{1}{2}$ cm $\frac{1}{2}$ cm $\frac{1}{2}$ in $\frac{1}{2}$ cm $\frac{1}{2}$ in						
Carapace length over curve $\frac{38^{1/4}}{10}$ in $\frac{38^{1/4}}{10}$ in $\frac{38^{1/4}}{10}$ in		_ in		cm	straight line _	Carapace length
Carapace width over curve cm 35/2 in		_ in	Man Carrier and Carrier	cm cm	straight line _	Carapace width
		_ in	38 V4	cm	over curve	Carapace length
		_ in	35/2	cm	over curve _	Carapace width
Did turtle nest? (Yes) No Undetermined (circle one)			le one)	termined (circ	? (Yes) No Ur	Did turtle nest
Additional remarks or data (use back if necessary)			w)	k if necessar	rks or data (use	Additional rema
The state of the s			31	IN THECESSA	The same of the sa	
		- 2000			and the second s	
		and the second of the second o				
Organization Tagging Notical Resources & Environmental Affaires Divis	noion	Affaires Dien				
MARINE Conps Base Comploque NC 28542	y regions		8542	Ne MC 2	Base Cample	MARINE Conps

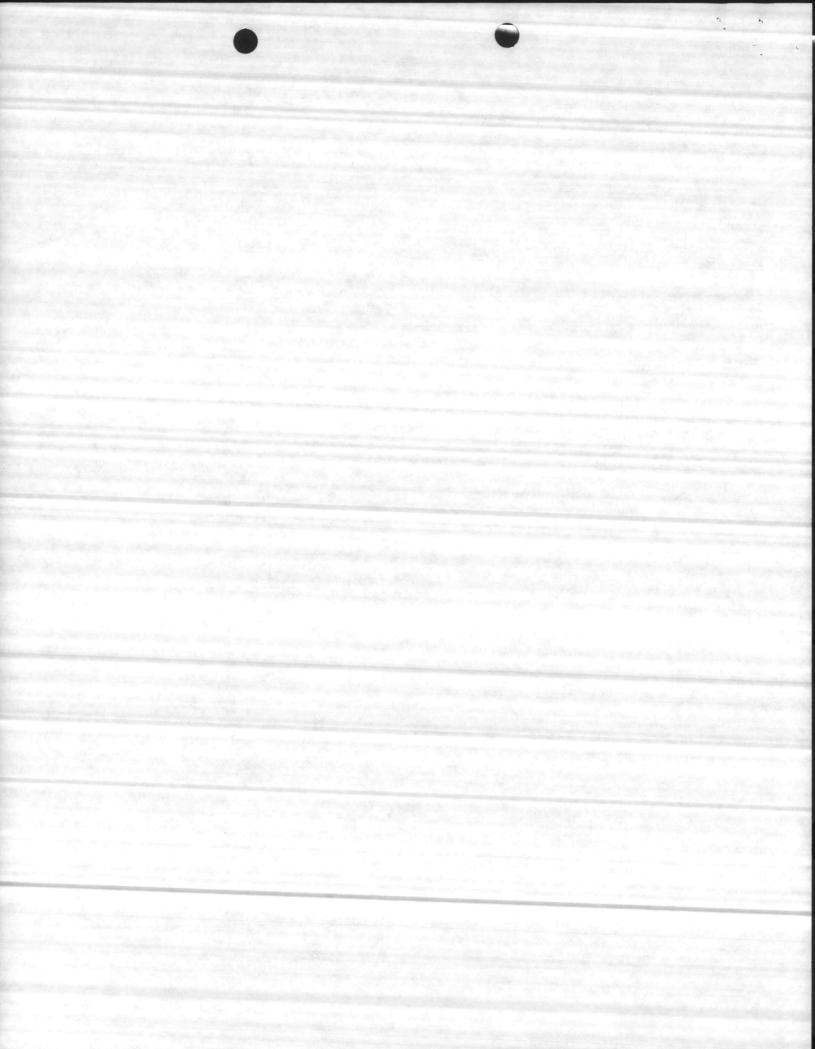


Describe location encountered 3.	5 N of Risel	Mer		
		.3,8		
Circle correct answer:				
"New" turtle (not carrying any tags	or tag scars)	Yes	No	
If no, then circle correct category				
1) Recapture of same project	turtle (within	season or mu	ulti-annua	1).
2) Recapture of different pro	ject turtle			
Turtle has definite tag sc	ar			
3) Turtle has definite tag so Tag return address (if other than N)		
)		
)ir		
Tag return address (if other than N	MFS Lab/Vir Key			
Tag return address (if other than N	MFS Lab/Vir Key	ir	1 -	
Tag return address (if other than N Carapace length straight line Carapace width straight line	MFS Lab/Vir Key cm	ir i	1	
Tag return address (if other than N Carapace length straight line Carapace width straight line Carapace length over curve Carapace width over curve	MFS Lab/Vir Keycmcmcmcm	30/2 in 30 in	1	
Tag return address (if other than N Carapace length straight line Carapace width straight line Carapace length over curve Carapace width over curve	MFS Lab/Vir Keycmcmcm	30/2 in 30 in	1	
Tag return address (if other than N Carapace length straight line Carapace width straight line Carapace length over curve Carapace width over curve	MFS Lab/Vir Keycmcmcmcmcm	37/2 ir 30 ir one)	1	



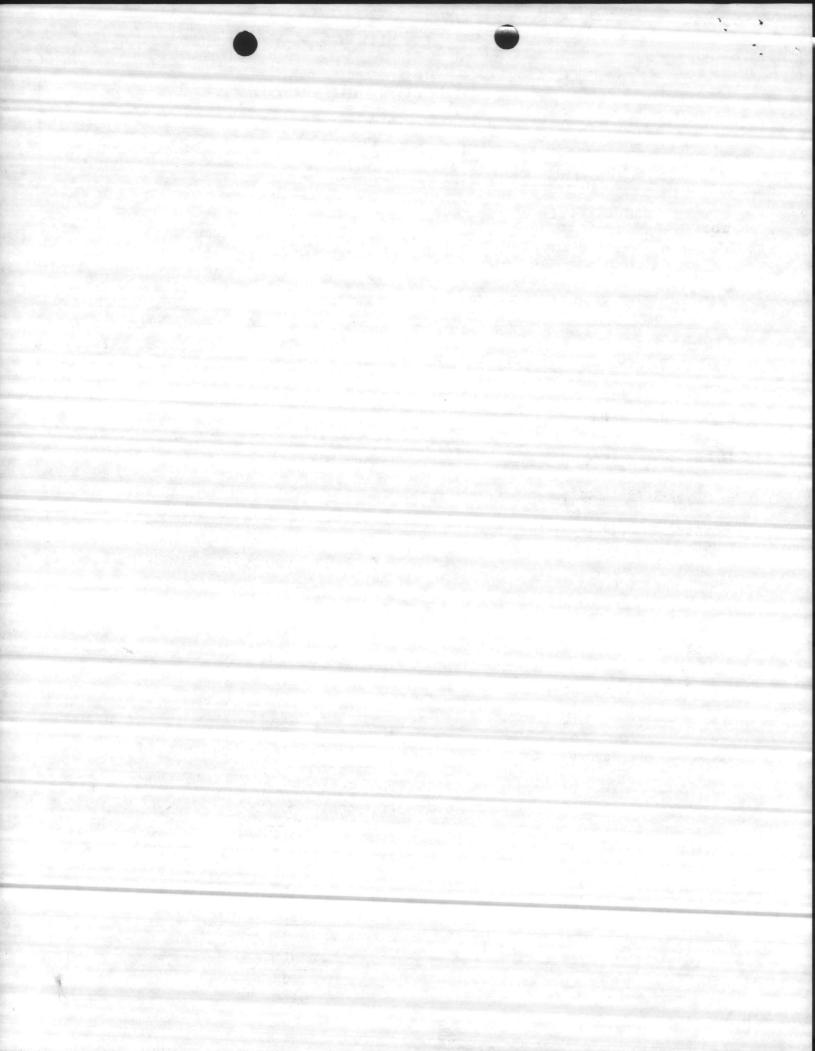
COOPERATIVE MARINE TURTLE TAGGING PROGRAM TAGGING DATA (NESTING TURTLES)

Tag Number(s)	AAR 135	_ Species <u>CC</u>		Date 8-17-84
<pre>(list all tag #'s and letter prefix)</pre>	136 BAR	-	E	ncountered
Describe locat	ion encountered	3.9 No & Risel	Pier	
			,	Frank State of State
and the state of t				
Circle correct	answer:			
"New" turtle (not carrying any	tags or tag scars) (Ye	No No
	rcle correct cat			
		ject turtle (withi	n season o	or multi-annual)
	ture of different			and the second of the second o
			i -	
3) Turtie	e has definite to	ag scar		
Tag return addr	ress (if other th	han NMFS Lab/Vir K	ey)	
				And the second s
Carapace length	n straight line	cm		_ in `
Carapace width	straight line	cm-		_ in
Carapace length	over curve	cm	38/2	_ in
Carapace width	over curve	cm	35	_ in
American de la companya de la compan				
Did turtle nest	t? (Yes) No 1	Undetermined (circ	le one)	
Additional rema	arks or data (us	e back if necessar	v)	
			A Contraction	
		Action 18 Comments		
	on the second se			
				Ho, rs Division
MARINE COP	ps BASE Camp	Lageuse NC 2	2542	



COOPERATIVE MARINE TURTLE TAGGING PROGRAM TAGGING DATA (NESTING TURTLES)

Tag Number(s) ARZ 139 Sp (list all tag #'s and letter ARZ 138 prefix)	pecies <u>CC</u>		ite 8-22-84 accountered	
Describe location encountered	Not Risely	Pier		
	7 - 1			
		3.4		
Circle correct answer:				
"New" turtle (not carrying any tags	s or tag scars	Yes	No No	
If no, then circle correct category	y:			
1) Recapture of same project	turtle (withi	n season or	multi-annual)	
2) Recapture of different pro	oject turtle			
3) Turtle has definite tag so	ar	₹**		
Tag return address (if other than !	MMFS Lab/Vir K	(ey)	· ·	
				•
Carapace length straight line	~			
	cm		_ in	
Carapace width straight line	cm		- in	
Carapace length over curve	cm	40/2	_ in	
Carapace width over curve	cm	37/4	in	
Did tuntle neet? (Vee) No. Header				
Did turtle nest? (Yes) No Under	termined (circ	(le one)		
Additional remarks or data (use bad	ck if necessar	·y)		
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MARINE COMPS (LASE CAMP Le-	Jeune, MP :	28542		



11015/1B NREAD 30 Aug 1984

From: Base Wildlife Manager

To: Director, Natural Resources and Environmental Affairs Divi-

sion

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

Enel: (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

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

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. Ininformed 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 Picture Co. 2. Petersons awards Section

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 ALGENTAL SECTION OF THE SECTION OF T

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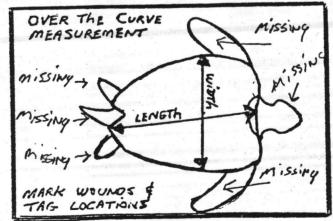
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MAKE ALL MEASUREMENTS OVER THE CURVE AND DOWN THE MIDLINE OF THE TURTLE. MEASURE THE LONGEST LENGTH. THAT IS, FROM THE CERVICAL SCUTE NEAR THE NECK, TO THE TIP OF THE MARGINAL SCUTE (SEE DIAGRAM). BE SURE TO CIRCLE THE UNITS OF MEASUREMENTS (IN = INCHES 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	CI	CADI	VI
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PRINI CLEARLY:
OBSERVER'S FULL NAME Sam Folger Poole DATE 8 4 06 22
TURTLE NUMBER BY DAY / 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(5)
RisLey's Pier
CURVED CARAPACE LENGTH 2215" _ CM(IN) CURVED CARAPACE WIDTH _9" CM(IN)
CONDITION OF ANIMAL 3 WAS ANIMAL SPRAY PAINTED? YN.
TAG. NO 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 ymold - decomposing - buried 1 Habore nightide
Front Flippers, head, part of back Flippers and Tail - MISSING.
SPECIES: CC = Loggerhead SEX: F = female . RELIABILITY OF I.D.: 1 = unsure CM = green LK = Kemp's ridley U = unknown (if species is unknown, then
LK = Kemp's ridley DC = leatherback EI = hawksbill (if species is unknown, then reliability must be 3)
UK = unknown 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



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

NREAD/CDP/jc 11015/1b 2 Feb 1989

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.

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