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DEPARTMENT OF THE INTERIOR U.S. FISH AND WILDLIFE SERVICE

FEDERAL FISH AND WILDLIFE PERMIT

Gorald Morahan-Per Mark Reihen-persit

When Workers

34-201 (2P/76)

2. AUTHORITY-STATUTES

16 USC 1539 (a)

REGULATIONS (Attached)

50 CFR 17.22

3. NUMBER

PRT-689394

. RENEWABLE	5. MAY COPY
XX YES	XK YES
□ NO	□ NO
6. EFFECTIVE	7. EXPIRES
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3/23/85

3/31/87

D SPECIES

CAMP LEJEUNE

11. CONDITIONS AND AUTHORIZATIONS

- A. GENERAL CONDITIONS SET OUT IN SUBPART D'OF 50 CFR 13, AND SPECIFIC CONDITIONS CONTAINED IN FEDERAL REGULATIONS CITED IN BLOCK #2 ABOVE, ARE A GENERAL CONDITIONS SET OUT IN SUBPART DO SO CERTS, AND SPECIFIC DISTINATIONS CONTINUED IN THE PURPOSES DESCRIBED IN THE HEREBY MADE A PART OF THIS PERMIT. ALL ACTIVITIES AUTHORIZED HEREIN MUST BE CARRIED OUT IN ACCORD WITH AND FOR THE PURPOSES DESCRIBED IN THE APPLICATION SUBMITTED. CONTINUED VALIDITY, OR RENEWAL OF THIS PERMIT IS SUBJECT TO COMPLETE AND TIME! COMPLIANCE WITH ALL APPLICABLE CONDITIONS, INCLUDING THE FILING OF ALL REQUIRED INFORMATION AND REPORTS.

 8. THE VALIDITY OF THIS PERMIT IS ALSO CONDITIONED UPON STRICT OBSERVANCE OF ALL APPLICABLE FOREIGN, STATE, LOCAL OR OTHER FEDERAL LAW.
- C. VALID FOR USE BY PERMITTEE NAMED ABOVE
 - Acceptance of this permit serves as evidence that the permittee understands and agrees to abide by the "Special Conditions for Marine Mammals and Native Endangered and Threatened Species" (copy attached)
 - E. AUTHORIZED TO TAKE GREEN (Chelonia mydas) AND LOGGERHEAD (daretta caretta) SEA TURTLES TO TAG AND MEASURE ADULTS AND TO RELOCATE NESTS, FOR THE PURPOSE OF SCIENTIFIC RESEARCH AND ENHANCEMENT OF SURVIVAL, PROVIDED:
 - 1. ONLY VESTS THREATENED BY EROSION, TIDES, EXTREME PREDATION OR MILITARY ACTIVITIES ARE MOYED,
 - 2. NESTS MAY BE RELOCATED ONLY TO SAFE BEACH
 - (NOT LABORATORIES), 3. RELOCATED NESTS ARE MONITORED AND HATCHING SUCCESS

RECORDED, 4. THE PERMITTEE MAY MOVE NESTS ONLY WITHIN 24 HOURS OF ADDITIONAL CONDITIONS AND AUTHORIZATIONS ON REVERSE ALSO APPLY

12. REPORTING REQUIREMENTS

1/31/86 FIRST ANNUAL REPORT DUE COMPLETE REPORT OF ACTIVITIES MUST BE SUBMITTED TO FWPO, BOX 3654

ARLINGTON, VA 22203, 1/31 OF EACH YEAR PERMIT IS IN EFFECT.

TITLE

CHIEF, BRANCH OF PERMITS-FWPO

3/23/85

EGG DEPOSITION OR AFTER TWO WEEKS FOLLOWING DEPOSITION (PREFERABLY EGGS SHOULD BE MOVED WITHIN 12 HOURS OF DEPOSITION), AND

- 5. NO EGGS BE REMOVED OR RELOCATED OUTSIDE THE CAMP LEJEUNE GENERAL BEACH VICINITY.
- E. NESTING FEMALES SHOULD BE DOUBLE-TAGGED BY PLACING ONE TAG ON EACH FRONT FLIPPER.
- F. THE ATLANTA, GA USFWS ENDANGERED SPECIES OFFICE (404/831-4671) MUST BE NOTIFIED BEFORE COMMENCING THE PERMITTED ACTIVITY.

38-201

CP /76)



DEPARTMENT OF THE INTERIOR U.S. FISH AND WILDLIFE SERVICE

2. AUTHORITY-STATUTES

16 USC 1539 (a)

REGULATIONS (Attached)

50 CFR 17.22

3. NUMBER

PRT-689394

4. RENEWABLE 5. MAY COPY XK YES XX YES O NO ON O 6. EFFECTIVE 7. EXPIRES

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FEDERAL FISH AND WILDLIFE PERMIT

1. PERMITTEE

MARINE CORPS BASE

CAMP LEJEUNE

NC 28542

8. NAME AND TITLE OF PRINCIPAL OFFICER (If #1 is a business)

DIRECTOR

JULIAN I. WOOTEN

9. TYPE OF PERMIT

ENDANGERED SPECIES

10. LOCATION WHERE AUTHORIZED ACTIVITY MAY BE CONDUCTED

TH CAROLINA CAMP LEJEUNE

- 11. CONDITIONS AND AUTHORIZATIONS:
 - A. GENERAL CONDITIONS SET OUT IN SUBPART D'OF SO CFR 13, AND SPECIFIC CONDITIONS CONTAINED IN FEDERAL REGULATIONS CITED IN BLOCK #2 ABOVE, ARE A. GENERAL CONDITIONS SET OUT IN SUBPART D'OF SO CFR 13, AND SPECIFIC CONDITIONS CONTAINED IN FEDERAL REGULATIONS CITED IN BLOCK #2 ABOVE, ARE HEREBY MADE A PART OF THIS PERMIT. ALL ACTIVITIES AUTHORIZED HEREIN MUST BE CARRIED OUT IN ACCORD WITH AND FOR THE PURPOSES DESCRIBED IN THE APPLICATION SUBMITTED. CONTINUED VALIDITY, OR RENEWAL OF THIS PERMIT IS SUBJECT TO COMPLETE AND TIME! COMPLIANCE WITH ALL APPLICABLE CONDITIONS, INCLUDING THE FILING OF ALL REQUIRED, INFORMATION AND REPORTS.

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United States Department of the Interior

FISH AND WILDLIFE SERVICE WASHINGTON, D.C. 20240

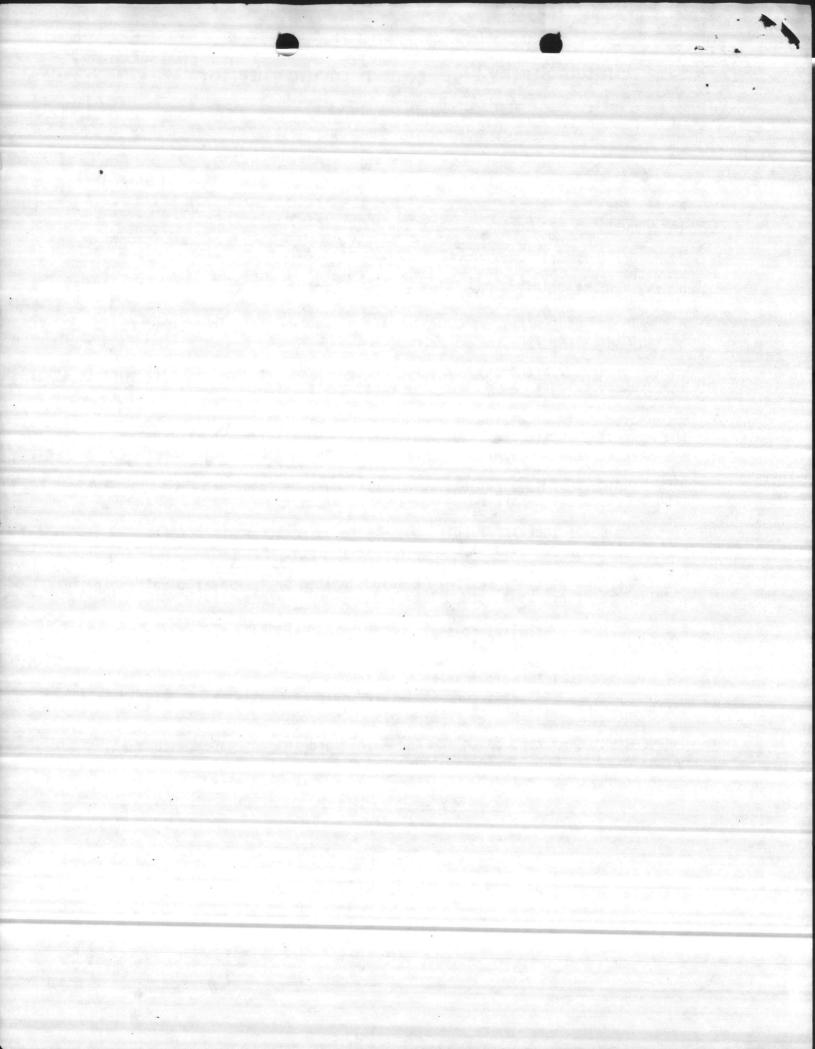
Implemented June 1982

Special Conditions for Marine Mammals and Native Endangered and Threatened Species Permits

- Permittee must comply with the attached General Permit Conditions specified by the Federal Wildlife Permit Office.
- 2. Any dead or injured specimens of the authorized wildlife found may be salvaged or cared for.
- Unless otherwise authorized on the face of the permit, the wildlife must be immediately released at or near the capture site after permitted activity.
- Unexpected death or escape of the authorized wildlife shall be reported to the Federal Wildlife Permit Office (703/235-1903) before the end of the next business day.
- 5. BIRD banding, marking, radio tagging, etc. must be conducted in accordance with a Federal Bird Marking and Salvage permit.

THE FOLLOWING CONDITIONS APPLY UNTIL AUTHORIZED DISPOSAL OF THE WILDLIFE, REGARDLESS OF THE EXPIRATION DATE OF THE PERMIT:

- 6. The authorized wildlife may NOT be sold, donated or transferred unless the receiver has first been issued authorization by the Director.
- 7. Any dead authorized wildlife shall be preserved and held for scientific purposes whenever practical.
- 8. Any live SEA TURTLES held must be maintained in accordance with the "Care and Maintenance Standards for Sea Turtles Held in Captivity" specified by the Federal Wildlife Permit Office.
- 9. MARINE MAMMALS must be cared for and maintained in accordance with the Animal and Plant Health Inspection Service's regulations on "Marine Mammals; Humane Handling, Care, Treatment, and Transportation".



ADDRESS ONLY THE DIRECTOR. FISH AND WILDLIFE SERVICE



United States Department of the Interior

FISH AND WILDLIFE SERVICE WASHINGTON, D.C. 20240

Implemented May 1982

GENERAL PERMIT CONDITIONS

- 1. All sections of Title 50 Code of Federal Regulations Part 13 provided on the reverse of this page are conditions of the permit.
- 2. All applicable foreign, state, local or other federal laws, including those requiring permits, must be observed.
- 3. Living specimens must be handled and shipped so as to mimimize risk of injury, damage to health or cruel treatment.
- 4. Container in which authorized wildlife is shipped must be plainly marked with name and address of shipper and consignee and an accurate description of the contents including common and scientific name and number of each within, OR with a symbol authorized by a Symbol Marking permit.
- 5. Permittee must carry a copy of permit while conducting authorized activities.
- 6. Permit number must be legibly printed on all documents amd advertisements involving activities conducted under permit.

For permits authorizing import, export or reexport:

- 7. This permit and a completed copy of the Wildlife Declaration (Form 3-177) must be presented to a USFWS officer at the port upon imprort, export or reexport of wildlife shipments.
- 8. Import, export or reexport of pre-Act wildlife under the W.S. Endangered Species Act must be accompanied by documentation required by 50 CFR 17.4.
- 9. Import of species listed in Appendix I, II or III of CITES must be accompanied by proper foreign documentation from the country of export.
- 10. Import, export or reexport of plants must be made through a U.S. Department of Agriculture (USDA) port (list attached if applicable). Permittee shall allow an authorized USDA agent to enter his premises at amy reasonable hour to inspect any specimens held, or to inspect any records.
- 11. Import, export or reexport of wildlife must be made through one of the following designated ports or as authorized by an Exception to Designated Port permit: New York, NY; Miami, FL; New Orleans, LA; Dallas/Ft. Worth, TX; Los Angeles and San Francisco, CA; Honolulu, HI; Seattle, WA; and Chicago, IL.

Exception to Designated Port permittees:

- a. Permittee is liable for all costs incurred by USFWS im examining shipments including per diem, salary and travel cost. Payment shall be by certified check or money order, payable to U.S. Fish amd Wildlife Service prior to delivery of shipment to the consignee.
- b. The nearest USFWS Law Enforcement Office (list attached) must be notified at least 72 hours prior to import, export or reexport...

§ 13.23 Amendment of applications or per-

Where circumstances have changed so that an applicant or permittee desires to have any term or condition of his application or permit modified, he must submit in writing full justification and supporting information in conformance with the provisions of this part and the part under which the permit has been issued or requested. Such applications for modification are subject to the same issuance criteria as are original applications, as provided in § 13.21.

§ 13.24 Renewal of permit.

Where the permit is renewable and a permittee intends to continue the activity described in the permit during any portion of the year ensuing its expiration, he shall, unless otherwise notified in writing by the Director, file a request for permit renewal, together with a certified statement that the information in his original application is still currently correct, or a statement of all changes in the original application, accompanied by any required fee at least 30 days prior to the expiration of his permit. Any person holding a valid renewable permit, who has complied with the foregoing provision of this section, may continue such activities as were authorized by his expired permit until his renewal application is acted upon.

§ 13.25 Permits not transferable; agents.

(a) Permits issued under this part are not transferable or assignable. Some permits authorize certain activities in connection with a business or commercial enterprise and in the event of any lease, sale, or transfer of such business entity, the successor must obtain a permit prior to continuing the permitted activity. However, certain limited rights of succession are provided in § 13.26.

(b) Except as otherwise stated on the face of a permit, any person who is under the direct control of the permittee, or who is employed by or under contract to the permittee for the purposes authorized by the permit, may carry out the activity authorized by

the permit.

§ 13.27 Change of mailing address.

During the term of his permit, a permittee may change his mailing address without procuring a new permit. However, in every case notification of the new mailing address must be forwarded to the issuing official within 30 days after such change. This section does not authorize the change of location of the permitted activity for which an amendment must be obtained in accordance with § 13.23.

\$ 13.28 Change in name.

A permittee continuing to conduct a permitted activity is not required to obtain a new permit by reason of a mere change in trade name under which a business is conducted or a change of name by reason of marriage or legal decree: Provided. That such

Excerpts from CODE OF FEDERAL REGULATIONS (50 CFR 13)

the issuing official for endorsement within 30 days from the date the permittee begins conducting the permitted activity under the new name.

§ 13.29 Official endorsement of changes required.

Any change in a permit must be made by endorsement of the Director or issuing officer. Any modification or change in an issued permit, other than those specifically provided for in this subpart, may be granted or denied in the discretion of the Director.

§ 13.30 Certain continuancy of activity.

A permittee who furnishes his permit to the issuing official for endorsement or correction in compliance with the provisions of this subpart may continue his operations pending its return.

§ 13.31 Discontinuance of activity.

When any permittee discontinues his activity, he shall, within 30 days thereof, mail his permit and a request for cancellation to the issuing officer, and said permit shall be deemed void upon receipt. No refund of any part of an amount paid as a permit fee shall be made where the operations of the permittee are, for any reason, discontinued during the tenure of an issued permit.

§ 13.41 Recall and amendment of permit during its term.

Except for marine mammal permits (See Part 18), all permits are issued subject to the condition that the Service reserves the right to recall and amend the provisions of a permit for just cause at any time during its term. Such amendments take effect on the date of notification, unless otherwise specified.

§ 13.42 Permits are specific.

The authorizations on the face of a permit which set forth specific times, dates, places, methods of taking, numbers and kinds of wildlife or plants, location of activity, authorize certain circumscribed transactions, or otherwise permit a specifically limited matter, are to be strictly construed and shall not be interpreted to permit similar or related matters outside the scope of strict construction.

§ 13.43 Alteration of permits.

Permits shall not be altered, erased, or mutilated, and any permit which has been altered, erased, or mutilated shall immediately become invalid. Unless specifically permitted on the face thereof, no permit shall be copied, nor shall any copy of a permit issued pursuant to this Subchapter B be displayed, offered for inspection, or otherwise used for any official purpose for which the permit was issued.

§ 13.44 Display of permit.

Any permit issued under this part shall be displayed for inspection upon request to the Director or his agent, or to any other person relying upon its existence.

§ 13.45 Filing of reports.

Permittees-may be required to file reports of the activities conducted under the permit. Any such reports shall be filed not later than March 31 for the preceding calendar year ending December 31, or any portion thereof, during which a permit was in force, unless the regulations of this Subchapter B or the provisions of the permit set forth other reporting requirements.

§ 13.46 Maintenance of records.

From the date of issuance of the permit, the permittee shall maintain complete and accurate records of any possession, transportation, taking. sale, purchase, barter, exportation, or importation of plants obtained from the wild (excluding seeds) or wildlife pursuant to such permit. Such records shall be kept current and shall include names and addresses of persons with whom any plant obtained from the wild (excluding seeds) or wildlife has been purchased, sold, bartered, or otherwise transferred, and the date of such transaction, and such other in-formation as may be required or appropriate. Such records, unless otherwise specified, shall be entered in books, legibly written in the English language. Such records shall be retained for 5 years from the date of issuance of the permit.

§ 13.47 Inspection requirement.

Any person holding a permit under this Subchapter B shall allow the Director's agent to enter his premises at any reasonable hour to inspect any wildlife or plant held or to inspect, audit, or copy any permits, books, or records required to be kept by regulations of this Subchapter B.

§ 13.51 Penalties for violation of a permit, notice: demonstration of compliance.

- (a) Any violation of the applicable provisions of this subchapter, or of the statute under which the permit was issued, or a condition of the permit, may subject the permittee to the following penalties:
- (1) The penalty provided in the statute under which the permit was issued;

(2) Temporary suspension of the permit for a specified period; and

(3) Revocation of the permit. When revoked, permits must be surrendered to the Director on demand.

(b) Except in cases of willfullness or those in which the public health safety or interest requires, and prior to any suspension or revocation of a permit, the permittee shall be given:

(1) Notice by the Service in writing of the facts or conduct which may warrant the suspension or revocation; and

(2) Opportunity to demonstrate or achieve compliance with all permit requirements.

February 1985

UNITED STATES FISH AND WILDLIFE SERVICE DIVISION OF LAW ENFORCEMENT SPECIAL AGENT-IN-CHARGE (SAC) DISTRICT OFFICES

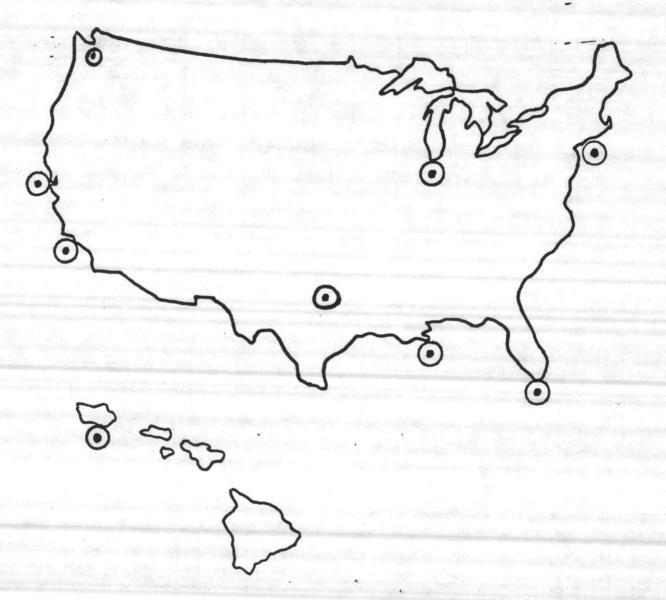


- 1. California, Hawaii, Idaho, Nevada, Oregon, Washington:
 847 N.E. 19th Street
 Suite 225
 Portland, OR 97232
 503/231-6125
- 2. Arizona, New Mexico, Oklahoma, Texas: P.O. Box 329 Albuquerque, NM 87103 505/766-2091
- 3. Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, Wisconsin: P.O. Box 45
 Twin Cities, MN 55111
 612/725-3530
- 4. Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, Puerto Rico, South Carolina, Tennessee: P.O. Box 4839 Atlanta, GA 30302 404/221-5872

- 5. Connecticut, District of Columbia, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, West Virginia:
 P.O. Box 129 New Town Branch Boston, MA 02258
 617/965-2298
- 6. Colorado, Kansas, Montana Nebraska, North Dakota, South Dakota, Utah, Wyoming: P.O. Box 25486 Denver Federal Center Denver, CO 80225 303/236-7540
- 7. Alaska P.O. Box 4-2597 Anchorage, AK **9950**9 907/786-3311

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U.S. Fish and Wildlife Service Designated Ports (50 CFR 14.12)



New Orleans: 504/255-6575 312/298-3250 Chicago: 718/917-1767 Dallas/Fort Worth: 817/334-5205 New York: 415/344-5900 808/546-5602 San Francisco: Honolulu: 206/442-5543 213/436-1183 Seattle: Los Angeles: 305/350-1767 Miami:

SEA TURTLE INVENTORY

for

SUMMER AND FALL 1986

ASSISTANT CHIEF OF STAFF, FACILITIES

MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA 28542

JULIAN I. WOOTEN DIRECTOR

WILLIE G. BOSTIC WILDLIFE TECHNICIAN

CHARLES D. PETERSON SUPERVISORY WILDLIFE MANAGER

GORDON E. FINLEY, SGT USMC, Marine Corps Base WILDLIFE TECHNICIAN

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

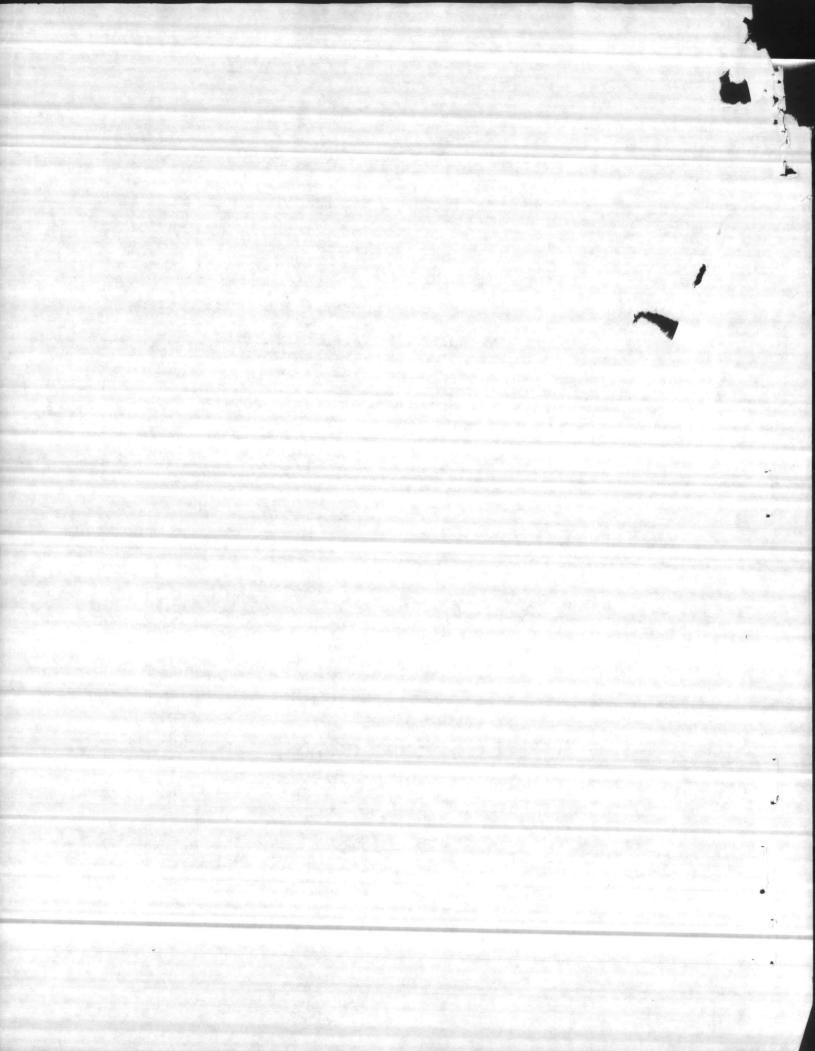
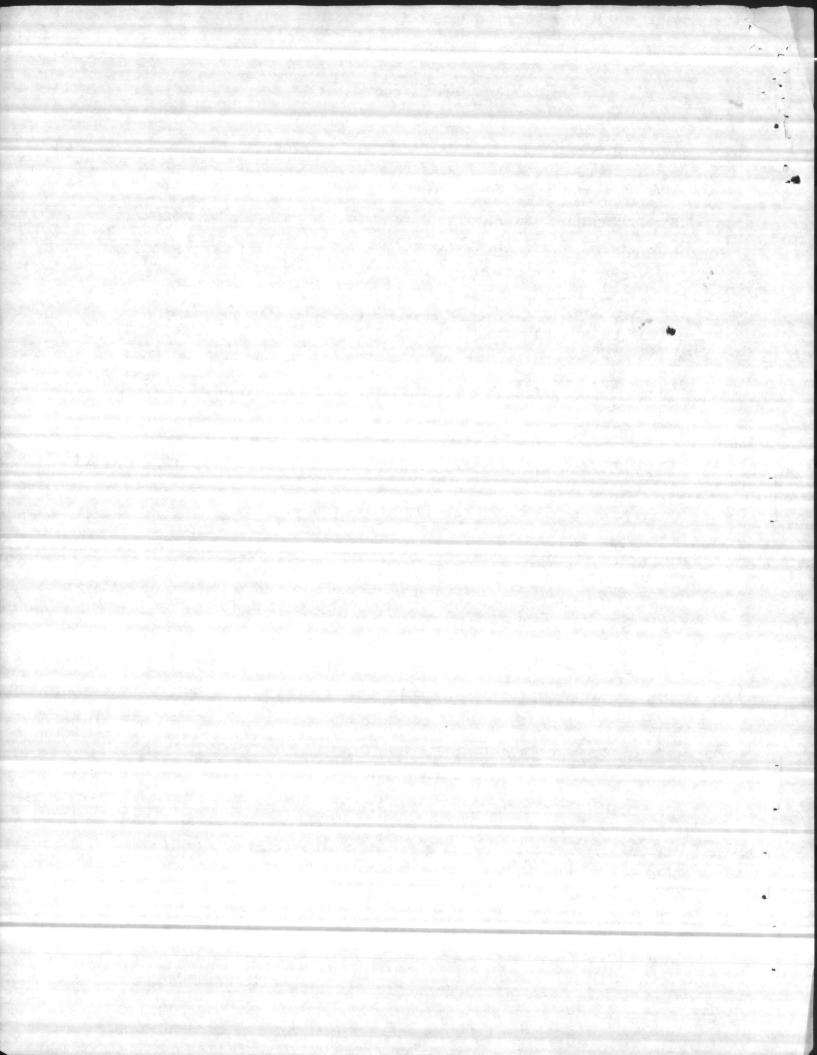


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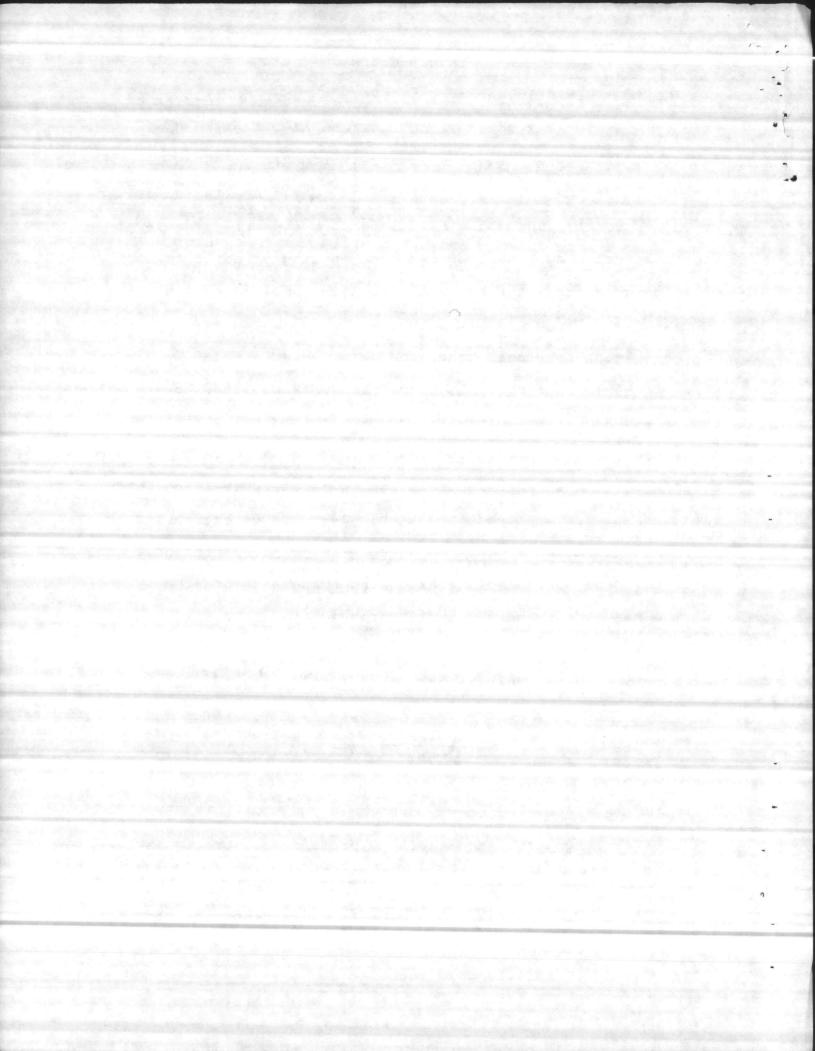
INTRODUCTION

The sea turtle inventory for 1986 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 hatching 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 sea turtle program are as follows:

- a. Nest protection from predators, 32.
- b. Tagging of adults number of turtles tagged $\underline{12}$. Tag return data may be reviewed in Table II
 - c. Nesting data Number of nests 32.
 - d. Total number of crawls 116.
 - e. Total number of eggs -3801.
- f. Total number of eggs lost to predators prior to discovery of nest 39.
- g. Total number of hatchlings that emerged or were released from nests 2954.
 - h. Total of turtles dead in nest 13.



- i. Number of tag returns 24.
- j. Number of stranded turtles $\underline{1}$.

Only 1 stranding occurred and a stranding report was submitted to the North Carolina Wildlife Resources Stranding Network Coordinator. The carcass of the stranded turtle was buried on the beach.

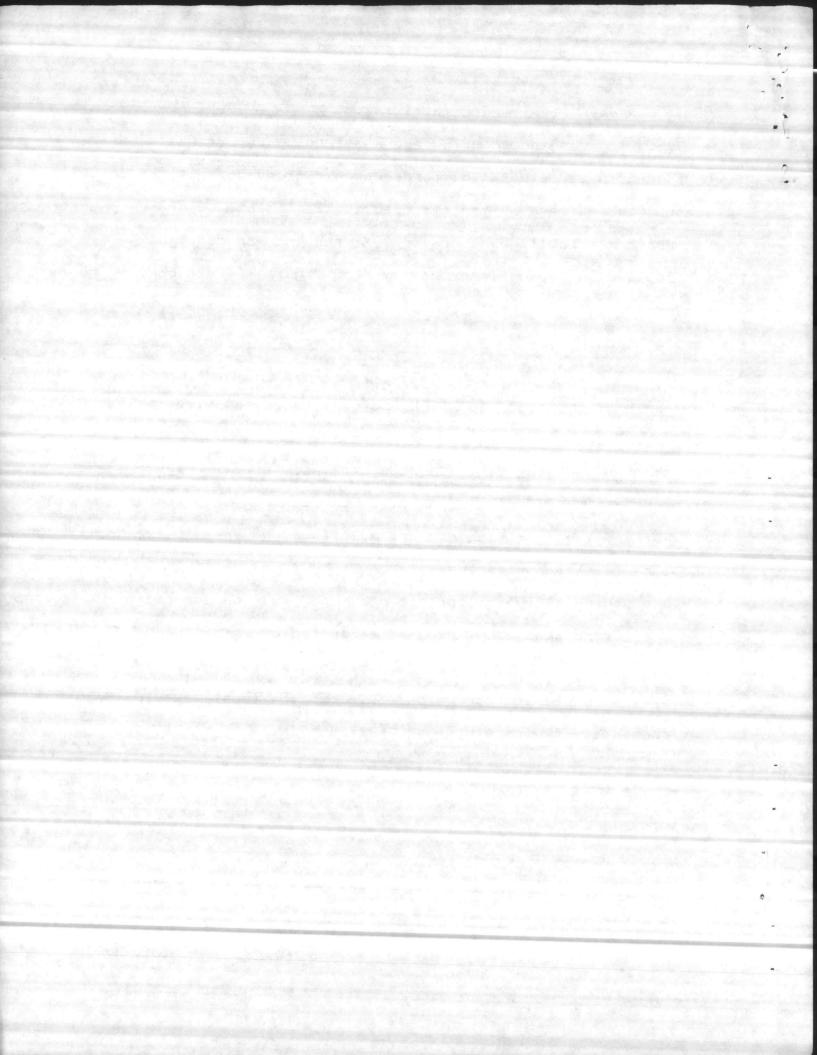
Percent hatchling success is 77%; nesting and crawl data is complied in Tables I through IV, and Figures 1 through 3. The enclosed maps in Figure 4 indicate locations of turtle activity on Onslow Beach.

Aerial survey data may be found in Table \underline{V} .

Table VI contains the hatchling results of individual nests for the season.

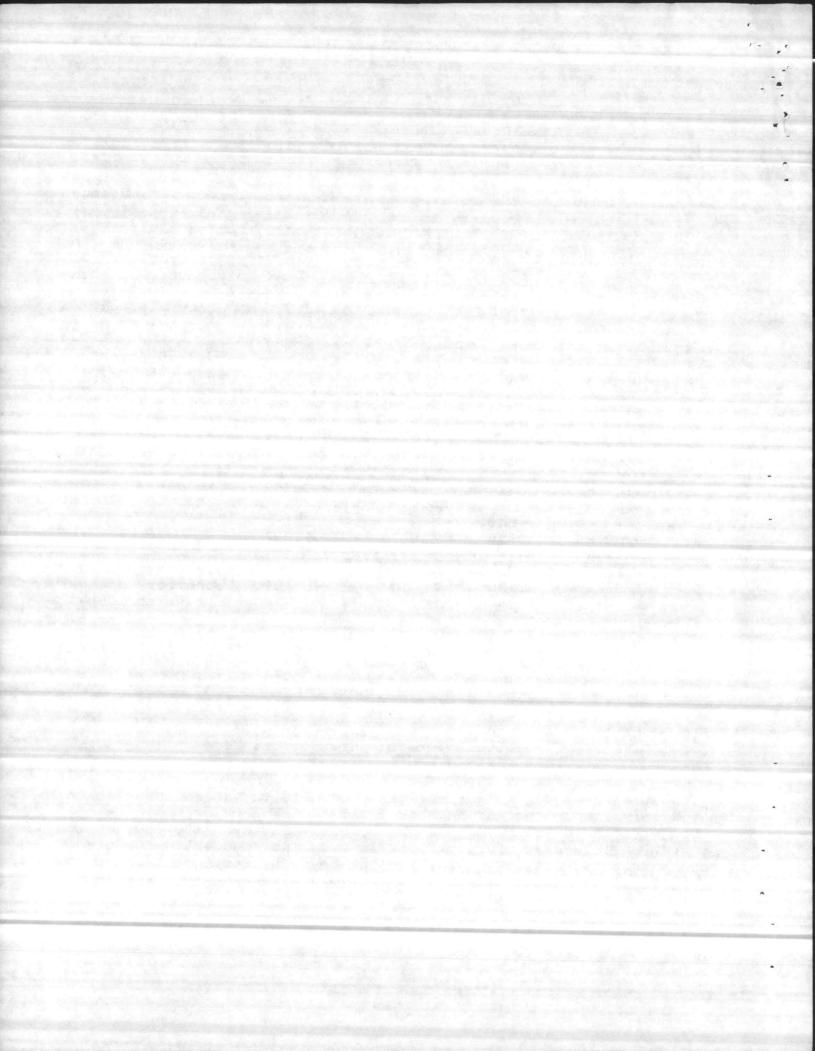
The Marine Corps Base, Camp Lejeune and Natural Resources and Environmental Affairs Division give special thanks to Doctor F. J. Schwartz at the Institute of Marine Science, Morehead City, North Carolina for his advice and services.

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).



Crawl No.	Date	Time Crawl Occurred	Active Nest ()	Location *	Comments
01	5/26/86	Est. 0328		0.3 M.N.R.P.	Turtle comp. nest chamber, no eggs present
02	5/27/86	Est. 0100		1.2 M.S.R.P.	Turtle made con- siderable crawl on beach, No Nest
03	5/28/86	Est. 1114		2.7 M.S.R.P.	Body pit, partial cavity, No Nest
04	5/31/86	Est. 0230	ll8 eggs	2.7 M.S.R.P.	6/9/86 Moved to 2.0 M.S.R.P. 1 Broken egg
05	5/31/86	Est. 0230	120 eggs	2.5 M.N.R.P.	
06	6/04/86	Est. 0530		2.6 M.S.R.P	No Nest
07	6/04/86	Est. 0530		2.1 M.S.R.P.	No Nest
08	6/06/86	Est. 1230		1.9 M.N.R.P.	Turtle comp. nest chamber, no nest, traveled 100 yd.
09	6/08/86	Est. 0730	90 eggs	0.6 M.S.R.P.	Moved nest 45 ft. out of water, on 9/86 moved to .6 N.R.P.
10	6/10/86	Est. 0830	52 eggs	1.9 M.N.R.P.	

^{*} Location measured to nearest tenth of mile to the north or south of Risely Pier. Record known or estimated time when crawl was thought to have occurred. Conduct nightly surveys 2100-0500 during scheduled irregular hours or 0800-1630 during regularly scheduled hours when tide is low. Traverse the beach by four-wheel-drive vehicle above the high tide line to avoid stranding the vehicle.

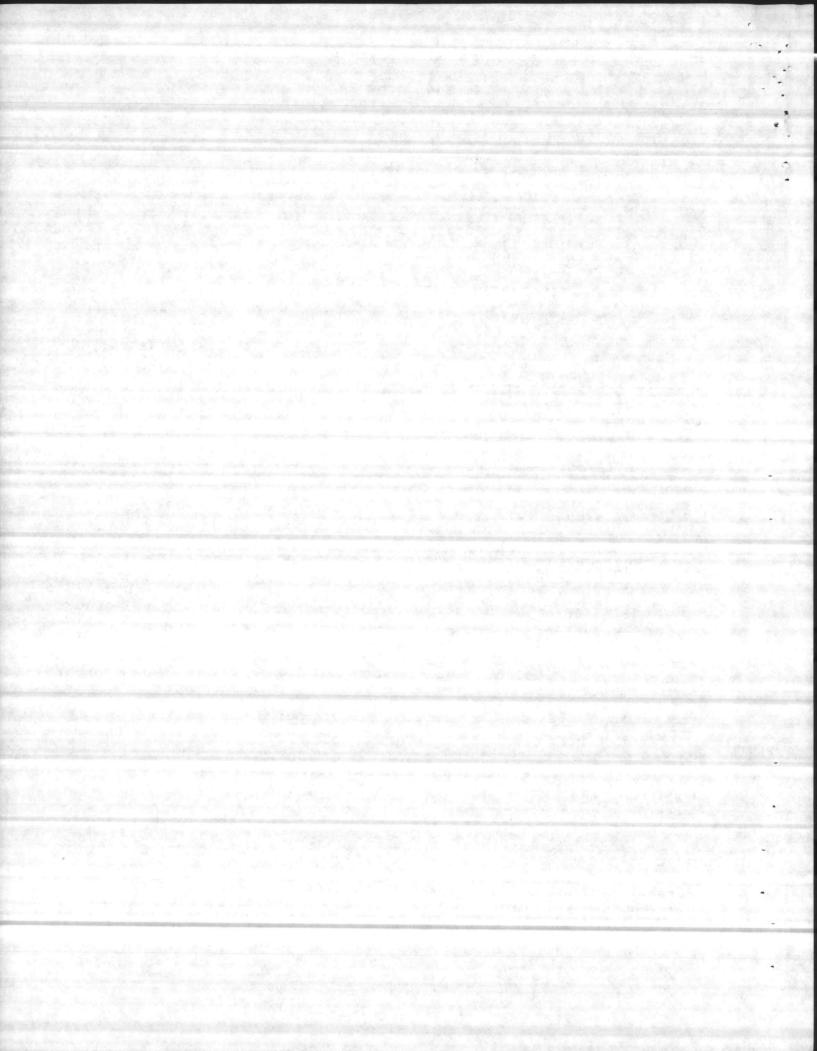


SEA-TURTLE INVENTORY (Crawl Data) Marine Corps Base

Camp Lejeune, North Carolina

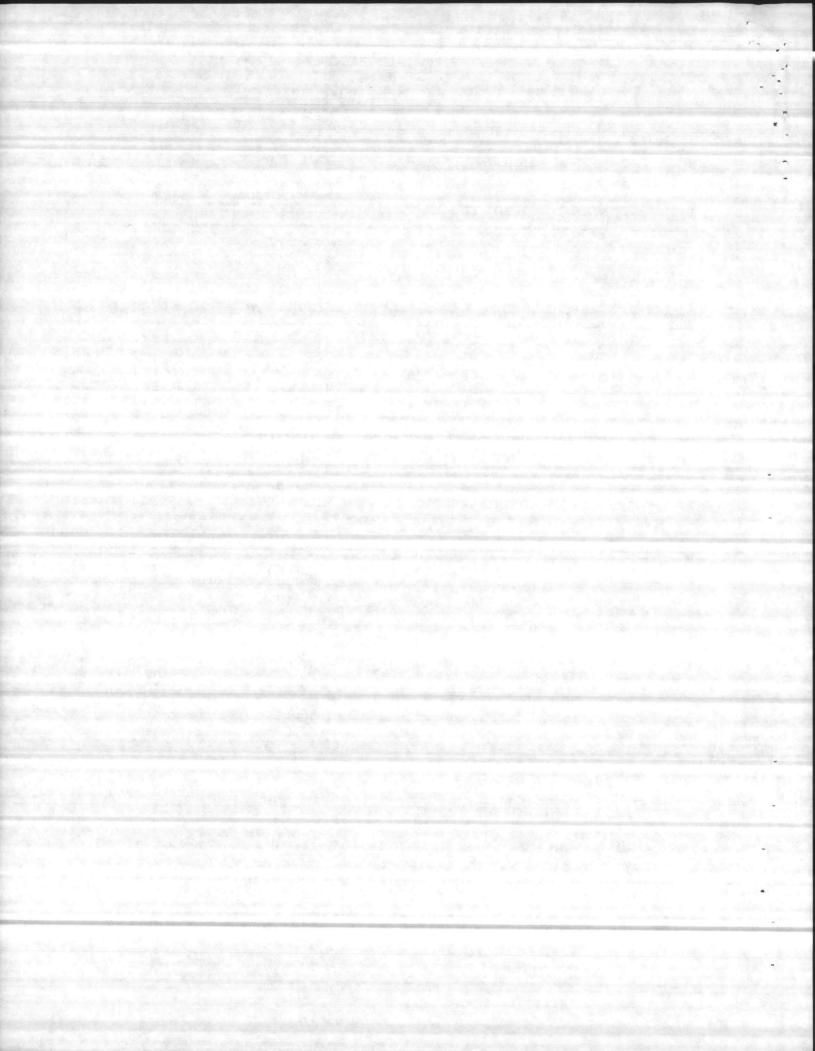
Crawl No.	Date	Time Crawl Occurred	Active Nest ()	Location *	Comments
11	6/10/86	Est. 0830		1.9 M.N.R.P.	Turtle started hole but did not finish.
12	6/07/86	1400- 1500		3.4 M.N.R.P.	Col Stokes saw crawl on Sat. Tag and watch in 60 days
13	6/10/86	Est. 0830		4.3 M.N.R.P.	Crawled about 100 yds., no nest
14	6/10/86	2330		2.0 M.N.R.P.	Crawled about 100 yds., no nest
15	6/11/86	Est. 0200		0.8 M.N.R.P.	Crawled about 50 yds no nest
16	6/11/86	Est. 0200		0.5 M.N.R.P.	Crawled about 100 yds., no nest
17	6/13/86	Est. 0300		1.0 M.S.R.P.	Crawled about 58 ft no nest
18	6/13/86	Est. 0300		1.2 M.S.R.P.	Crawled about 18 ft no nest
19	6/13/86	Est. 0300		1.4 M.S.R.P.	Crawled about 28 ft Body pit, no nest
20	6/14/86	0030	132 eggs	1.5 M.N.R.P.	Moved nest to 2.7 M.N.R.P.
21	6/14/86	Est. 0730		1.0 M.S.R.P.	Crawled about 18 yds
22	6/14/86	Est. 0730		1.8 M.S.R.P.	No nest

^{*} Location measured to nearest tenth of mile to the north or south of Risely Pier. Record known or estimated time when crawl was thought to have occurred. Conduct nightly surveys 2100-0500 during scheduled irregular hours or 0800-1630 during regularly scheduled hours when tide is low. Traverse the beach by four-wheel-drive vehicle above the high tide line to avoid stranding the vehicle.



Crawl No.		Time Crawl Occurred	Active Nest ()	Location *	Comments
23	6/16/86	0130	102 eggs	0.4 M.N.R.P.	
24	6/16/86	0200		2.4 M.N.R.P.	No nest
25	6/16/86	0200		3.2 M.N.R.P.	No nest
26	6/19/86	2345		0.5 M.N.R.P.	Turtle dug 3 holes but did not lay, Tag AAR 099/100
27	6/20/86	0400	128 eggs	1.8 M.N.R.P.	Moved to 2.7 M.N.R.P., Tag AAR 171/172
28	6/20/86	0600		3.5 M.N.R.P.	Small Turtle
29	6/21/86	2300		2.8 M.S.R.P.	Tested ground, dug 1 hole Tag AAR 173/174
30	6/23/86	0300		4.2 M.N.R.P.	No nest
31	6/27/86	0215	146 eggs	Ż.O M.N.R.P.	Moved to 2.9 M.N.R.P. Tag AAR 059/060
32	6/27/86	0230		1.4 M.N.R.P.	No nest
33	6/27/86	0230		2.1 M.N.R.P.	No nest

^{*} Location measured to nearest tenth of mile to the north or south of Risely Pier. Record known or estimated time when crawl was thought to have occurred. Conduct nightly surveys 2100-0500 during scheduled irregular hours or 0800-1630 during regularly scheduled hours when tide is low. Traverse the beach by four-wheel-drive vehicle above the high tide line to avoid stranding the vehicle.

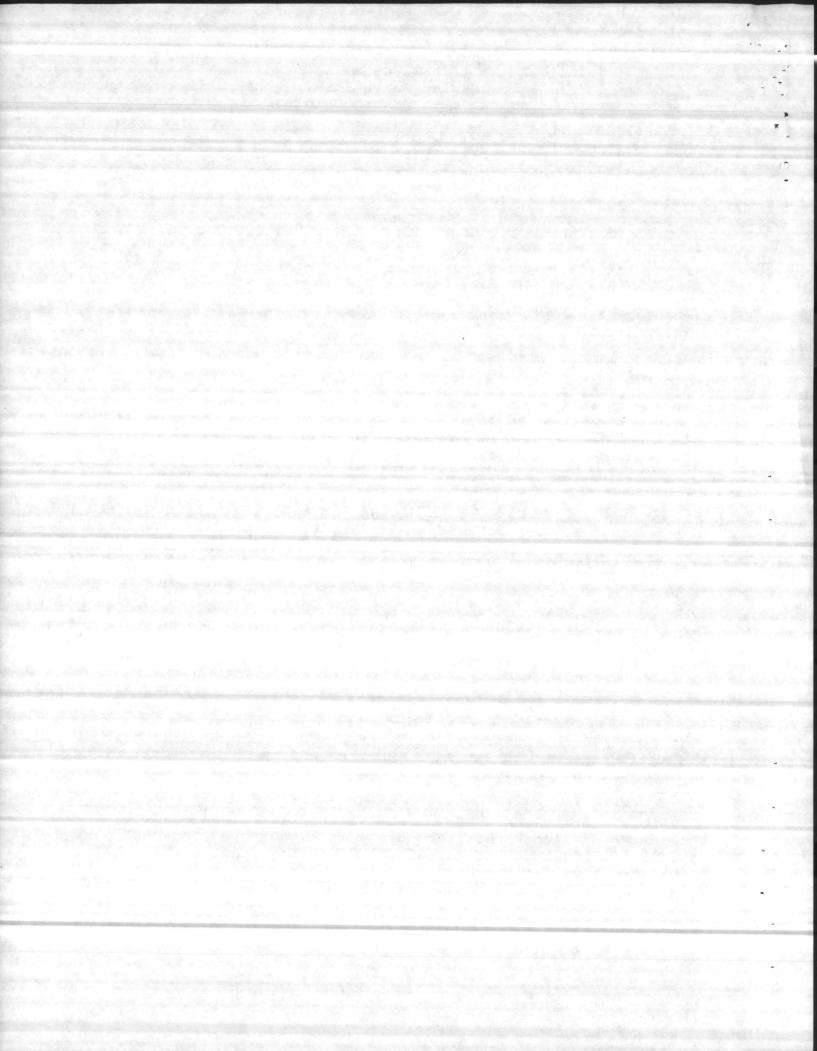


SEA-TURTLE INVENTORY (Crawl Data) Marine Corps Base

Camp Lejeune, North Carolina

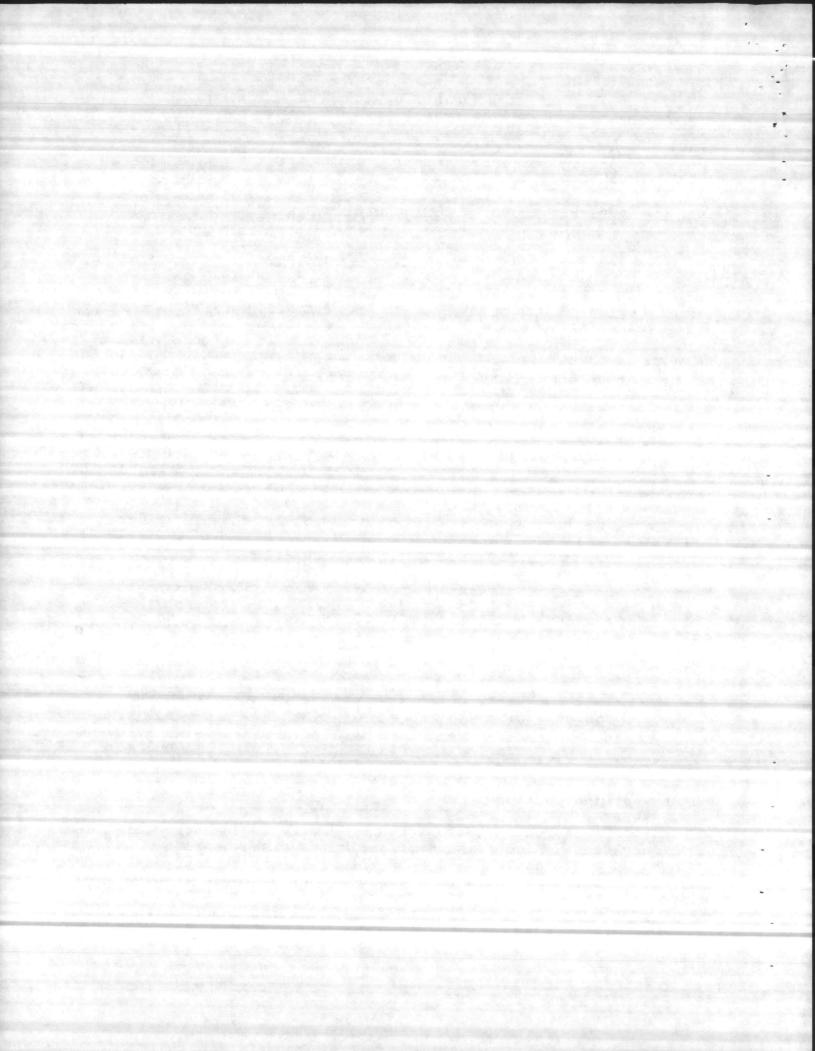
Crawl No.	T. Date	ime Crawl Occurred	Active Nest ()	Location *	Comments
34	6/27/86	0240		0.7 M.S.R.P.	Dug hole did not lay, no nest
35	6/27/86	0245		0.8 M.S.R.P.	Dunes real steep, no nest
36	6/27/86	0245		2.3 M.S.R.P.	No nest
37	6/27/86	0300		2.4 M.S.R.P.	No nest
38	6/28/86	0900	124 eggs	4.4 M.N.R.P.	Moved to 2.7 M.N.R.P.
39	6/28/86	0900	126 eggs	4.5 M.N.R.P.	Moved to 2.7 M.N.R.P.
40	6/28/86	2330	ll4 eggs	0.1 M.N.R.P.	Moved to 0.6 M.N.R.P.
41	6/29/86	0100	119 eggs	2.5 M.N.R.P.	Moved to 2.7 M.N.R.P. Tag AAR 177/178
42	6/29/86	0300	147 eggs	0.9 M.N.R.P.	Moved to 0.6 M.N.R.P., Tag AAR 149/150
43	7/02/86	Est. 0930		2.0 M.N.R.P.	Failed to lay Tag AAR 099/100
44	7/02/86	0945		2.3 M.S.R.P.	No nest

^{*} Location measured to nearest tenth of mile to the north or south of Risely Pier. Record known or estimated time when crawl was thought to have occurred. Conduct nightly surveys 2100-0500 during scheduled irregular hours or 0800-1630 during regularly scheduled hours when tide is low. Traverse the beach by four-wheel-drive vehicle above the high tide line to avoid stranding the vehicle.



		J			
Crawl No.	T. Date	ime Crawl Occurred	Active Nest ()	Location *	Comments
45	7/03/86	0300	123 eggs	2.2 M.N.R.P.	Tag AAR 175/176
46	7/03/86	2215		2.3 M.S.R.P.	No nest Tag AAR 099/100
47	7/03/86	2230		0.8 M.N.R.P.	No nest
48	7/03/86	2345		1.6 M.S.R.P.	Failed to lay Tag AAR 099/100
49	7/04/86	0130		0.3 M.N.R.P.	Failed to lay Tag AAR 171/172
50	7/04/86	0200	105 eggs	1.4 M.S.R.P.	Moved to 0.6 M.N.R.P. Tag AAR 099/100
51	7/04/86	0300		2.9 M.S.R.P.	No nest
52	7/05/86	Est. 0530		0.4 M.S.R.P.	No nest
53	7/05/86	Est. 0530		3.1 M.N.R.P.	No nest
54	7/05/86	Est. 0900		0.6 M.S.R.P.	No nest
55	7/06/86	Est. 0330	168 eggs	3.1 M.N.R.P.	Moved to 2.7 M.N.R.P.
56	7/06/86	Est. 1930		2.4 M.S.R.P.	Dug hole Didn't lay
			and the state of the state of		Moreover, free and a little grant the stronger of the section of the section of

^{*} Location measured to nearest tenth of mile to the north or south of Risely Pier. Record known or estimated time when crawl was thought to have occurred. Conduct nightly surveys 2100-0500 during scheduled irregular hours or 0800-1630 during regularly scheduled hours when tide is low. Traverse the beach by four-wheel-drive vehicle above the high tide line to avoid stranding the vehicle.

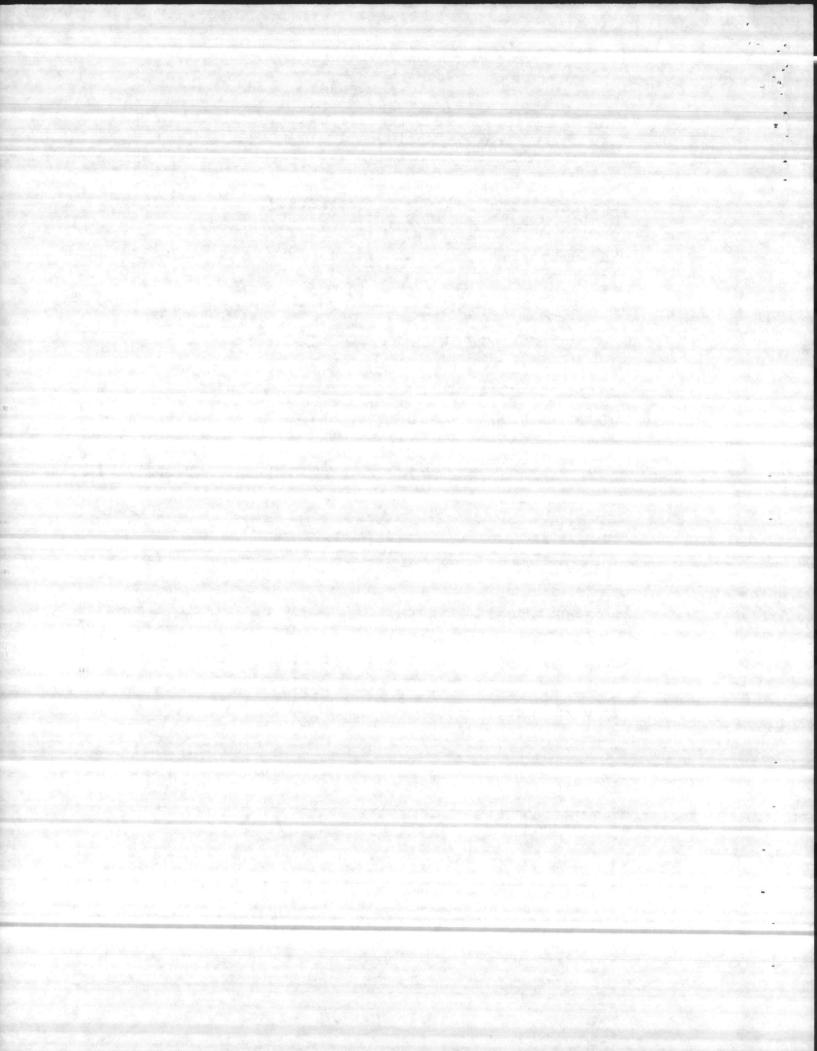


SEA-TURTLE INVENTORY (Crawl Data) Marine Corps Base

Camp Lejeune, North Carolina

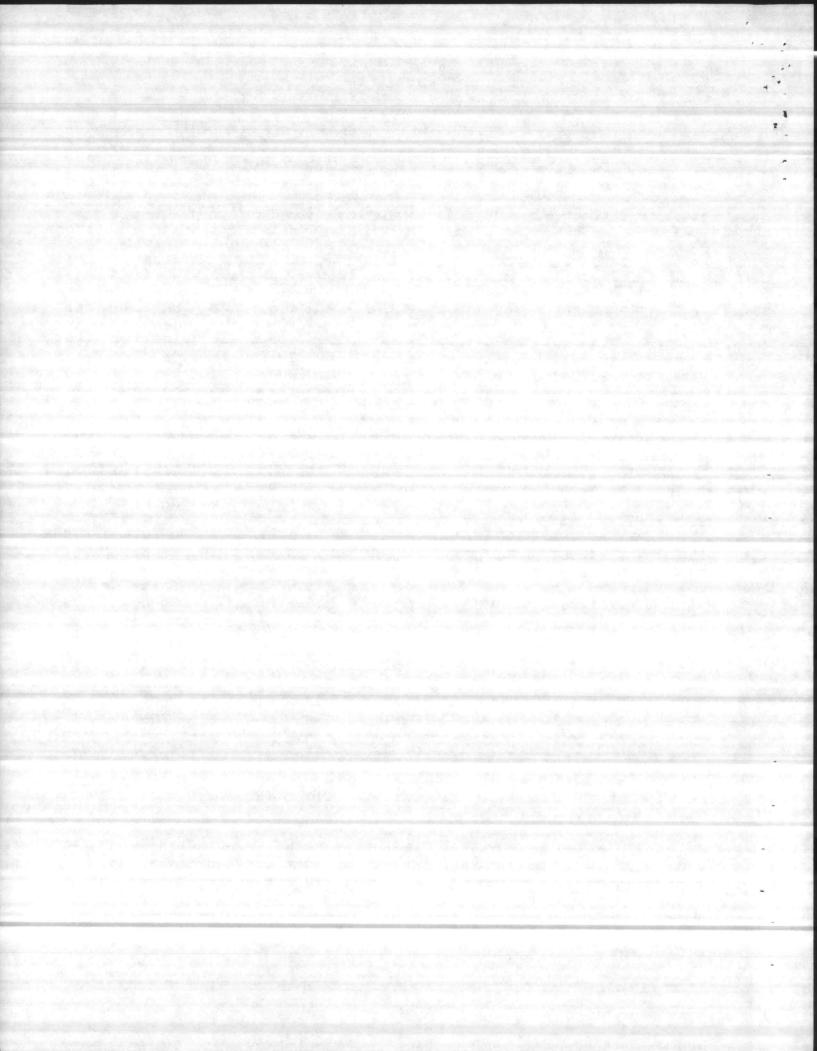
Crawl No.	Ti Date	me Crawl Occurred	Active Nest ()	Location *	Comments
57	7/07/86	2200		0.3 M.S.R.P.	No nest
58	7/07/86	2230		1.3 M.S.R.P.	Hole dug, no nest
59	7/07/86	0030	153 eggs	2.6 M.S.R.P.	Moved to 2.7 M.N.R.F., Tag AAR 179/180
60	7/07/86	2400	133 eggs	3.2 M.N.R.P.	Moved to 2.7 M.N.R.P.
61	7/07/86	Est. 0100		3.3 M.N.R.P.	No nest
62	7/08/86	2400	152 eggs	0.2 M.N.R.P.	Moved from 2.4 M.S.R.P., Tag AAR 115/116
63	7/08/86	0330		3.2 M.N.R.P.	Turtle was observed, no nest, Tag AAR 181/182
64	7/08/86	Est. 0045		3.1 M.N.R.P.	No nest
65	7/10/86	Est. 0300		3.4 M.N.R.P.	No nest
66	7/10/86	Est. 0300		2.7 M.N.R.P.	No nest
67	7/10/86	0200		2.5 M.S.R.P.	FC, tried to dig nest, Return tag AAR 051/052

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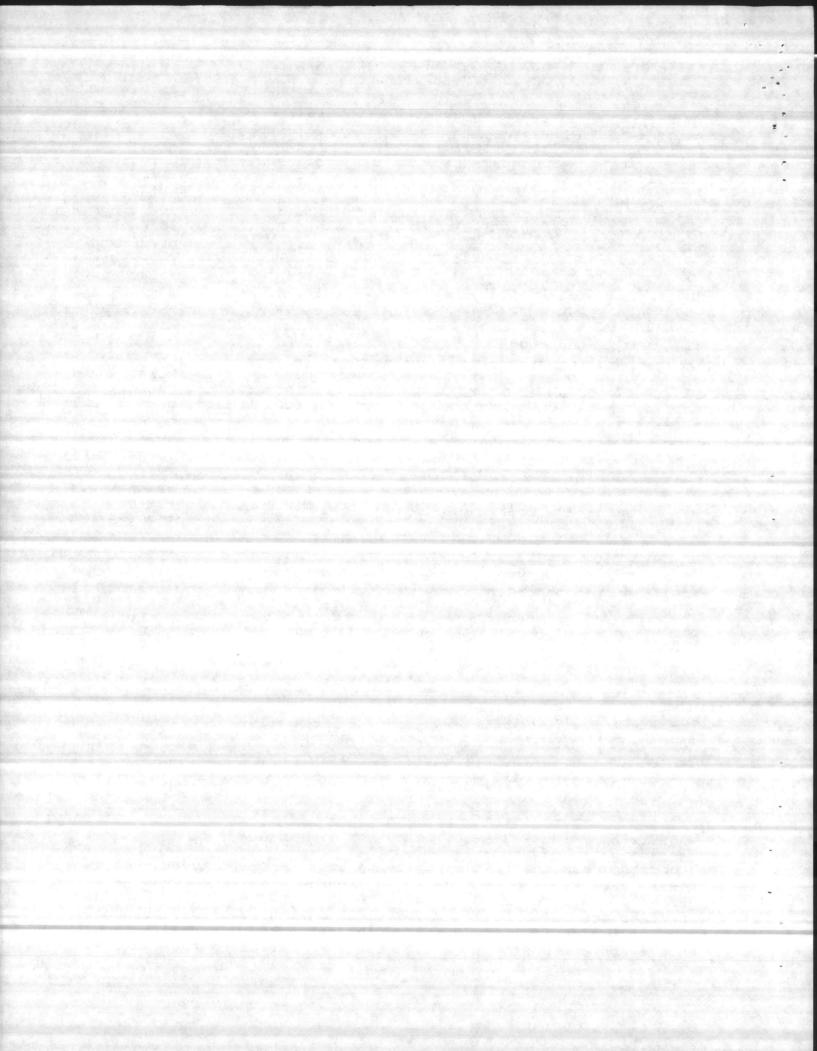
Crawl No.	Date	ime Crawl Occurred	Active Nest ()	Location *	Comments
68	7/10/86	0330	101 eggs	1.6 M.N.R.P.	IMS Tag #747
69	7/10/86	Est. 0300		2.7 M.N.R.P.	Crawled to dunes, no nest
70	7/10/86	0400		2.9 M.N.R.P.	Crawled 1/2 way to dunes, no nest
71	7/10/86	Est. 0400		3.2 M.N.R.P.	Crawled behind lst row of dunes no nest
72	7/10/86	Est. 0300		3.6 M.N.R.P.	Crawled to dunes
73	7/10/86	Est. 0400		3.7 M.N.R.P.	Crawled behind lst row of dunes No nest
74	7/10/86	Est. 0500		3.8 M.N.R.P.	Crawled to dune no nest
75	7/11/86	Est. 0300		1.6 M.S.R.P.	False Crawl, No nest
76	7/14/86	Est. 2400		0.8 M.S.R.P.	False Crawl, No nest
77	7/15/86	0130	84 eggs	0.2 M.N.R.P.	Moved to 0.2 M.N.R.P., Tag AAR 171/172
78	7/15/86	0230		1.6 M.S.R.P.	Dug l hole, failed to lay Tag AAR 099/100

^{*} Location measured to nearest tenth of mile to the north or south of Risely Pier. Record known or estimated time when crawl was thought to have occurred. Conduct nightly surveys 2100-0500 during scheduled irregular hours or 0800-1630 during regularly scheduled hours when tide is low. Traverse the beach by four-wheel-drive vehicle above the high tide line to avoid stranding the vehicle.



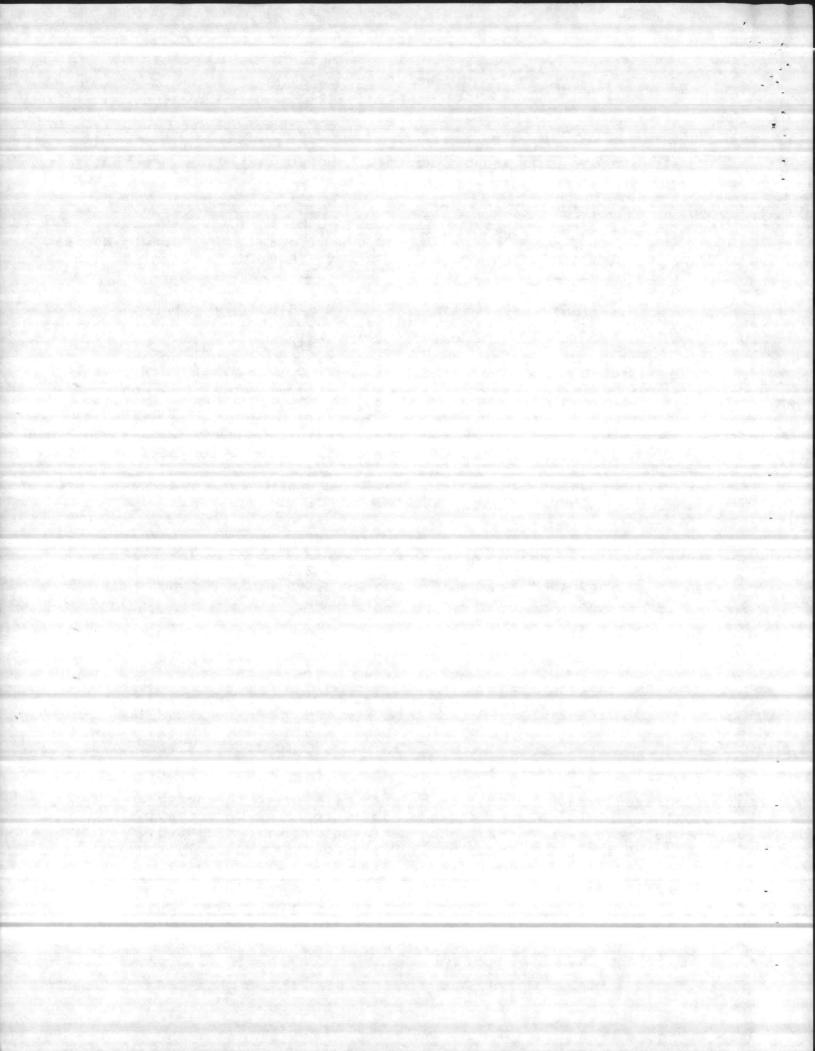
Crawl No.		me Crawl Occurred		Location *	Comments
79	7/15/86	0400	81 eggs	3.3 M.N.R.P.	Relocated to 3.2 M.N.R.P., 38 eggs lost to predators
80	7/16/86	0100		1.6 M.S.R.P.	False Crawl Tag AAR 173/174
81	7/16/86	0300	134 eggs	3.2 M.N.R.P.	Nest laid at 3.2 M.N.R.P.
82	7/16/86	2345		0.3 M.N.R.P.	False Crawl Tag AAR 173/174
83	7/17/86	0130	123 eggs	2.1 M.N.R.P.	Laid at 1.4 M.S.R.P. Tag AAR 183/184
84	7/17/86	0145	106 eggs	0.1 M.N.R.P.	Laid at 0.4 M.S.R.P., Tag AAR 173/174
85	7/18/86	0330	133 eggs	3.1 M.N.R.P.	Nest found at 3.5 M.N.R.P.
86	7/21/86	0500		3.9 M.N.R.P.	No nest
87	7/22/86	2200		0.5 M.N.R.P.	No nest
88	7/23/86	2130		3.0 M.N.R.P.	No nest
89	7/23/86	2345		0.6 M.N.R.P.	Tag - Marine Resources, Morehead City, No Nest

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Crawl No.	T Date	ime Crawl Occurred	Active Nest ()	Location *	Comments
90	7/24/86	2245		1.6 M.N.R.P.	No nest
91	7/24/86	2315		1.4 M.S.R.P.	Crawl, No nest Tag AAR 185/186
92	7/25/86	0300		2.0 M.S.R.P.	No nest
93	7/25/86	0310		0.8 M.S.R.P.	No nest
94	7/25/86	0615	89 eggs	3.2 M.N.R.P.	84 eggs/nest relocated to 3.2 M.N.R.P. from 3.5 M.N.R.
95	7/25/86	0600		3.6 M.N.R.P.	No nest
96	7/25/86	2100		2.0 M.S.R.P.	No nest
97	7/25/86	2130		2.1 M.S.R.P.	No nest
98	7/26/86	0100		2.3 M.N.R.P.	No nest Tag AAR 187/188
99	7/26/86	0200		2.3 M.N.R.P.	No nest Tag AAR 171/172
100	7/27/86	0100		2.3 M.N.R.P.	No nest Tag AAR 065

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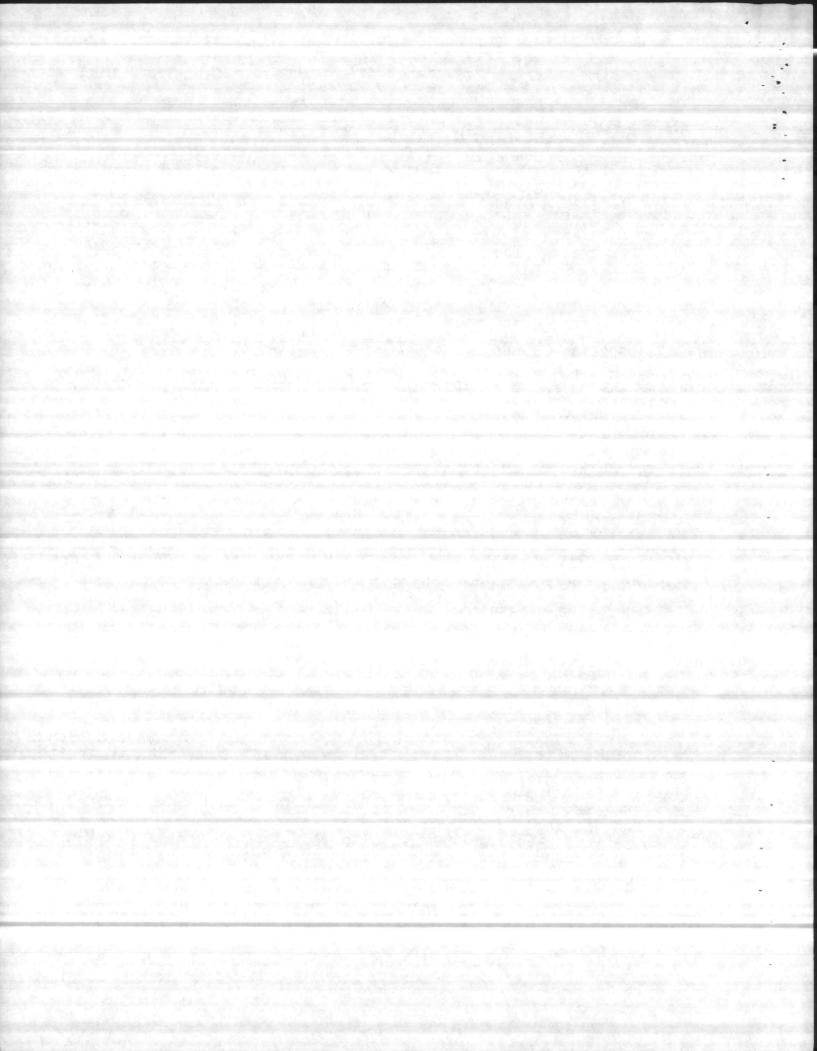
SEA-TURTLE INVENTORY (Crawl Data) Marine Corps Base

Camp Lejeune, North Carolina

Crawl No.		ime Crawl Occurred	Active Nest ()	Location *	Comments
101	7/27/86	0100		3.9 M.N.R.P.	No nest
 102	7/27/86	0100		4.0 M.N.R.P.	No nest
 103	7/27/86	0100	104 eggs	3.5 M.N.R.P.	Moved to 2.7 M.N.R.P.
104	7/28/86	0050	115 eggs	0.8 M.S.R.P.	Moved to 0.6 M.N.R.P., Tag AAR 189/190
105	7/28/86	0013		3.7 M.N.R.P.	FC/didn't make it to dunes Stopped 20 yds away
106	7/29/86	0300	135 eggs	2.1 M.N.R.P.	Relocated in dunes 2.1 NRP Tag AAR 059/060
107	7/30/86	0200		4.4 M.N.R.P.	Crawl 150 yds., no nest
108	8/02/86	0330		1.9 M.S.R.P.	No nest
109	8/02/86	0300		0.8 M.S.R.P.	No nest
110	8/02/86	0315		1.7 M.S.R.P.	No nest
111	8/04/86	2200	132 eggs	0.7 M.N.R.P.	Moved to 0.6 Tag AAR 194/195

Summary of Instructions:

^{*} Location measured to nearest tenth of mile to the north or south of Risely Pier. Record known or estimated time when crawl was thought to have occurred. Conduct nightly surveys 2100-0500 during scheduled irregular hours or 0800-1630 during regularly scheduled hours when tide is low. Traverse the beach by four-wheel-drive vehicle above the high tide line to avoid stranding the vehicle.



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

Crawl No.	Date	ime Crawl Occurred	Active Nest ()	Location *	Comments
112	8/09/86	0005	116 eggs	1.5 M.N.R.P.	Moved 25 feet to dunes, Tag AAR 177/178
113	8/12/86	0245		3.0 M.S.R.P.	No nest
114	8/12/86	0300		4.2 M.N.R.P.	M.N.R.P.
115	8/12/86	0300		4.5 M.N.R.P.	No nest
116	7/24/86	2400		3.2 M.N.R.P.	Late entry crawl, no nest
	San santa agus as sa				
		19 2 4 0			

Summary of Instructions:

^{*} Location measured to nearest tenth of mile to the north or south of Risely Pier. Record known or estimated time when crawl was thought to have occurred. Conduct nightly surveys 2100-0500 during scheduled irregular hours or 0800-1630 during regularly scheduled hours when tide is low. Traverse the beach by four-wheel-drive vehicle above the high tide line to avoid stranding the vehicle.

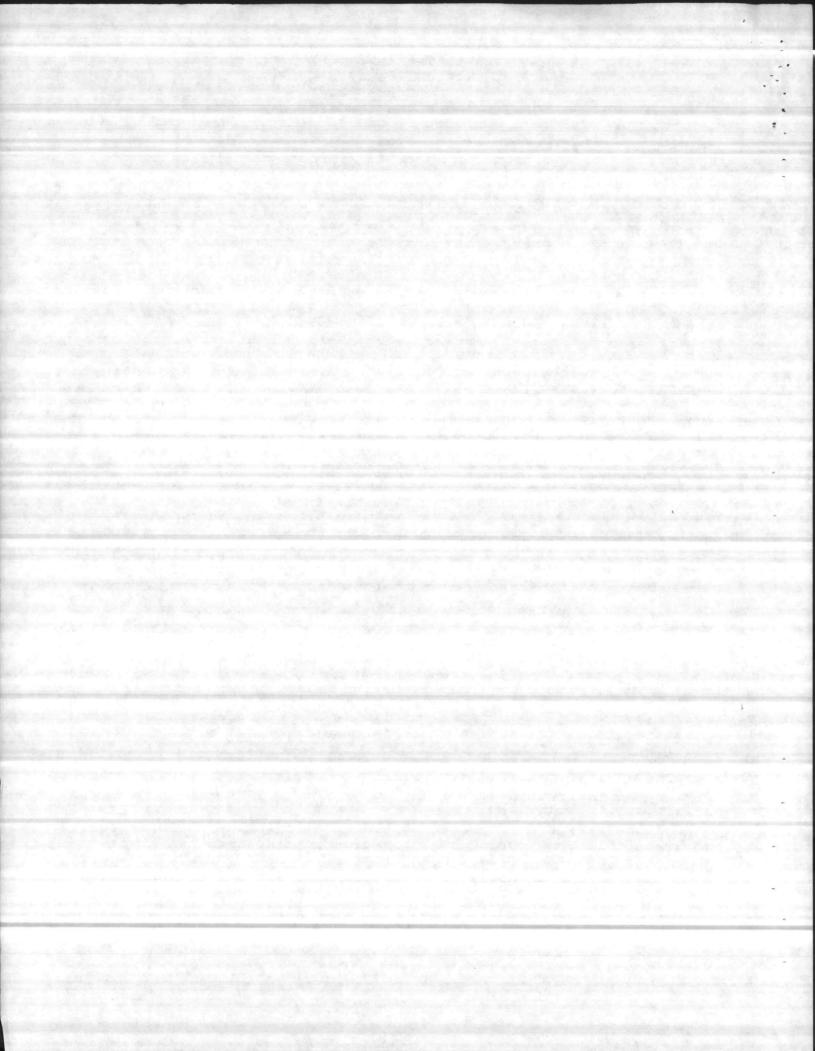


TABLE II Return Record of Tagged Turtles 1986 SEA-TURTLE INVENTORY

Date	Tagged	Tag Number	Return	Return	Return
6/15/84		AAR-099/100	6/19/86(1) 7/03/86(1)	7/02/86(1) 7/04/86(2)	7/03/86(1) 7/15/86(1)
	Sec. 1	AAR-051/052	6/28/86(1)	7/10/86(1)	
16.2		AAR-059/060	6/27/86(1)	7/29/86(2)	
6/28/84		AAR-115	7/08/86(2)		
		AAR-149/150	6/29/86(2)		
6/20/86	(2)	AAR-171/172	7/04/86(1)	7/15/86(2)	7/26/86(1)
6/21/86	(2)	AAR-173/174	7/16/86(1)	7/17/86(2)	
7/03/86	(2)	AAR-175/176			
6/29/86	(2)	AAR-177/178	8/09/86(2)		
7/07/86	(2)	AAR-179/180			
7/08/86	(1)	AAR-181/182		PROFESSION OF THE PROFESSION O	en andrewyn o'r en
7/17/86	(2)	AAR-183/184			
7/24/86	(1)	AAR-185/186			
7/26/86	(1)	AAR-187/188			r grand
7/28/86	(2)	AAR-189/190			
8/02/86	(1)	AAR-191/192			
8/04/86	(2)	AAR-194/195			
7/10/86	(2)	IMS # 747 **			

⁽¹⁾ Crawl Without Nest

⁽²⁾ Crawl With Nest

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

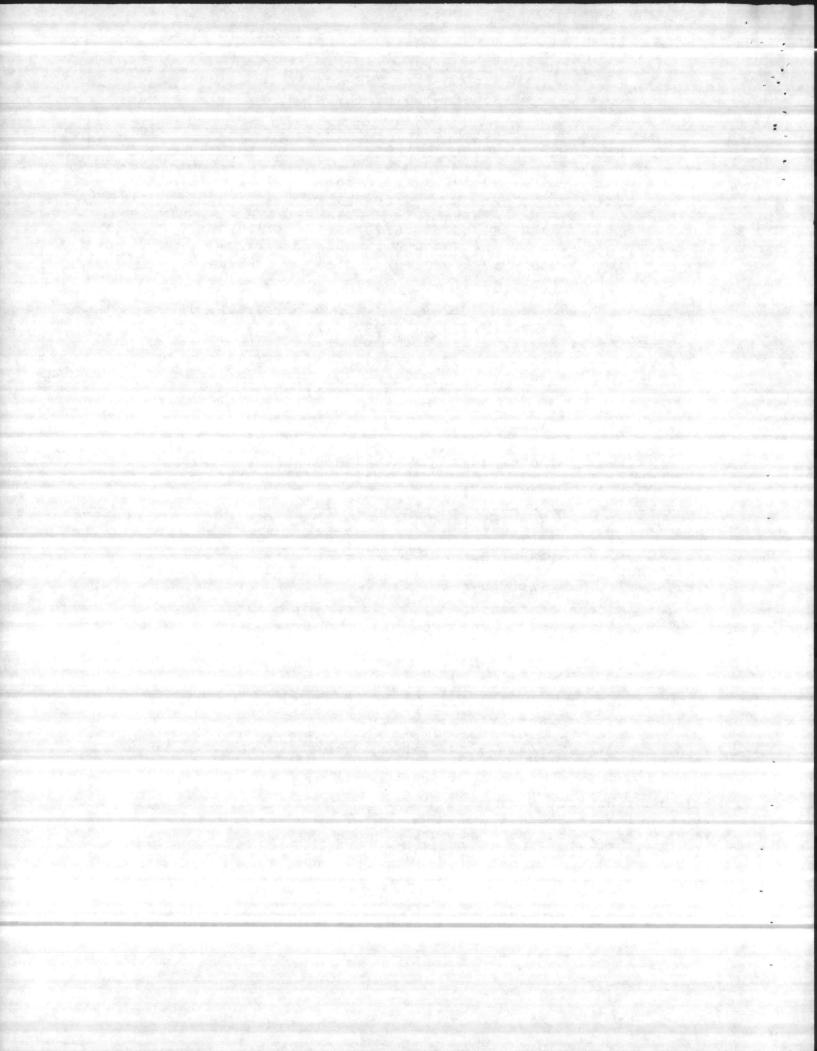


TABLE III

Crawl Information In Relation to

Moon and Tidal Cycle

DATE	MOON RISE % ILLUMIN	TIME OF HIGH TIDE	TIME CRAWL W/O NEST	TIME CRAWL W/NEST	CRAWLS
5/26/86	2253-93%	2201	0328	Ten 3.4	1
5/27/86	0042-86%	2258	0100		1
5/28/86	0042-77%	2358	1114		1
5/31/86	0220-45%	0159		0230/0230	2
5/04/86	0359-11%	1751	0530/0530		2
6/06/86	0500-02%	1751	1230	and the second s	1
6/07/86	0539-00%	1949	1400-1500		1
6/08/86	0623-00%	2037	0730	and the second s	1
6/10/86	0810-05%	2143	0830/0830/2330	0830	4
6/11/86	0911-11%	2222	0300/0300		2
6/13/86	1113-25%	2350	0300/0300/0300		3
6/14/86	1216-35%	0042	0730/0730	0830	3
6/16/86	1423-55%	0237	0200/0200	0130	3
6/19/86	1757-86%	1712	2345		1
6/20/86	1915-93%	1809	0400/0600		2
6/21/86	2029-98%	1805	2300		1
6/23/86	2231-99%	2053	0300		1
6/27/86	0047-71%	0027	0240/0245/0245 0245/0300	0900/0900	7
6/28/86	0047-61%	0120		0900/0900 2330	/ 3
6/29/86	0112-50%	0216		0100/0330	2
7/02/86	0230-23%	1635	0930/0945		2

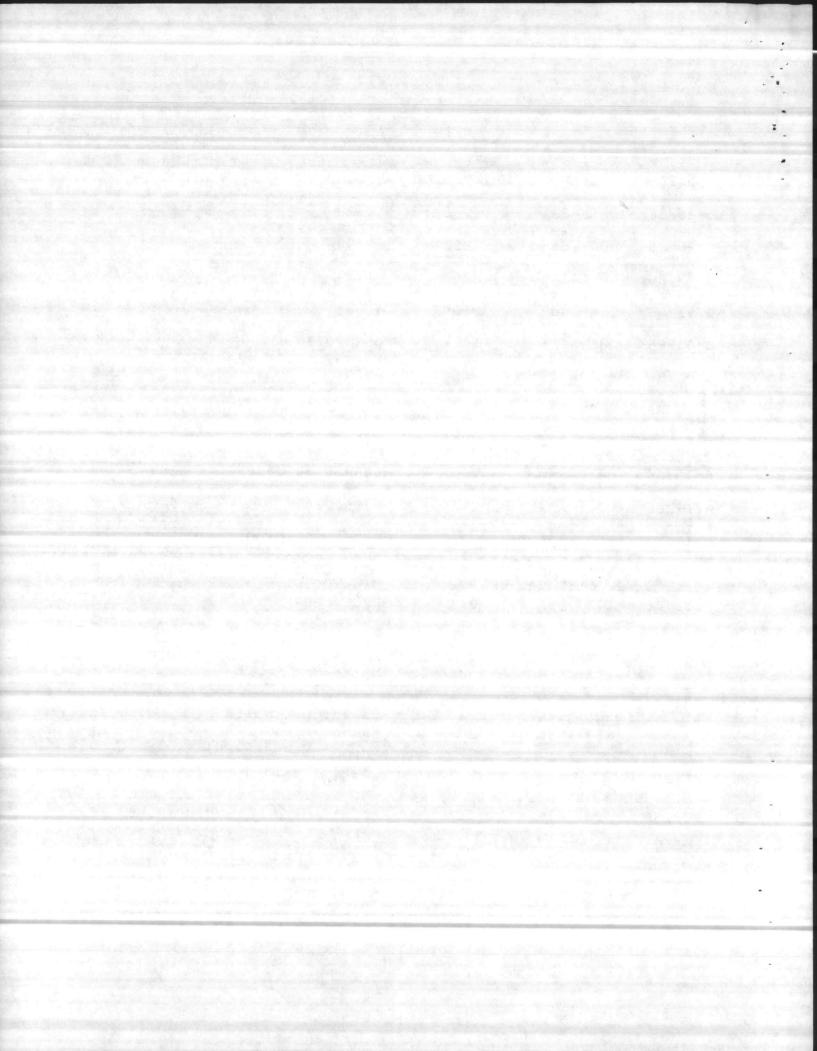


TABLE III
Crawl Information In Relation to
Moon and Tidal Cycle

DATE	MOON RISE % ILLUMIN	TIME OF HIGH TIDE	TIME CRAWL W/O NEST	TIME CRAWL W/NEST	TOTAL
7/03/86	0301-15%	1721	2215/2230/2345	0300	4
7/04/86	0338-09%	1805	0130/0300	0200	3
7/05/86	0420-05%	1845	0530/0530/0900		3
7/06/86	0509-01%	1845	1925	0300	2
7/07/86	0604-00%	2004	2200/2230/0100	0300/2400	5
7/08/86	0704-01%	2040	0300/0045	2400	3
7/10/86	0907-08%	2157	0200/0400/0400 0300/0400/0500	0300/0300 0300/0300	10
7/11/86	1009-14%	2236	0300		1
7/14/86	1314-41%	0103	2400		1
7/15/86	1426-52%	0204	0230	0130/0400	3
7/16/86	1537-63%	0313	0100/2345	0300	3
7/17/86	1652-74%	0417		0130/0145	2
7/18/86	1806-83%	1658		0330	1
7/21/86	2105-100%	1944	0500		1
7/22/86	2145-99%	2039	2200		1
7/23/86	2218-96%	2127	2130-2345	e en	2
7/24/86	2247-91%	2215	2400/2245/2315		3
7/25/86	2313-84%	2302	0300/0310/0600 2100/2130	0615	6
7/26/86	2338-75%	2350	0100/0200		2
7/27/86	0004-66%	0038		0100/0100	2
7/28/86	0031-56%	0132	0013	0050	2

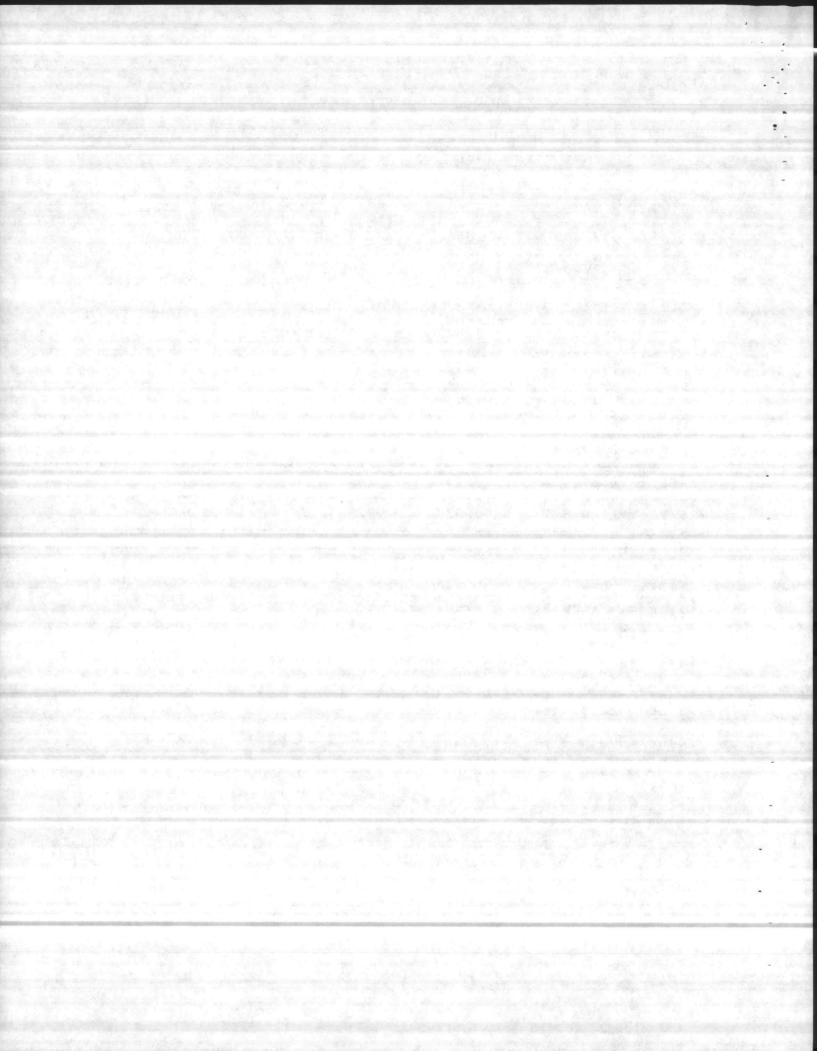


TABLE III Crawl Information In Relation to Moon and Tidal Cycle

DATE	MOON RISE % ILLUMIN	TIME OF HIGH TIDE	TIME CRAWL W/O NEST	TIME CRAWL W/NEST	TOTAL
7/29/86	0031-47%	0226		0300	1
7/30/86	0101-37%	0323	0200		1
8/02/86	2012-13%	1735	0300/0300/0315		3
8/04/86	0455-03%	1900		2200	1
8/09/86	1008-11%	2210		0005	1
8/12/86	1326-38%	0038	0245/0300/0300)	3
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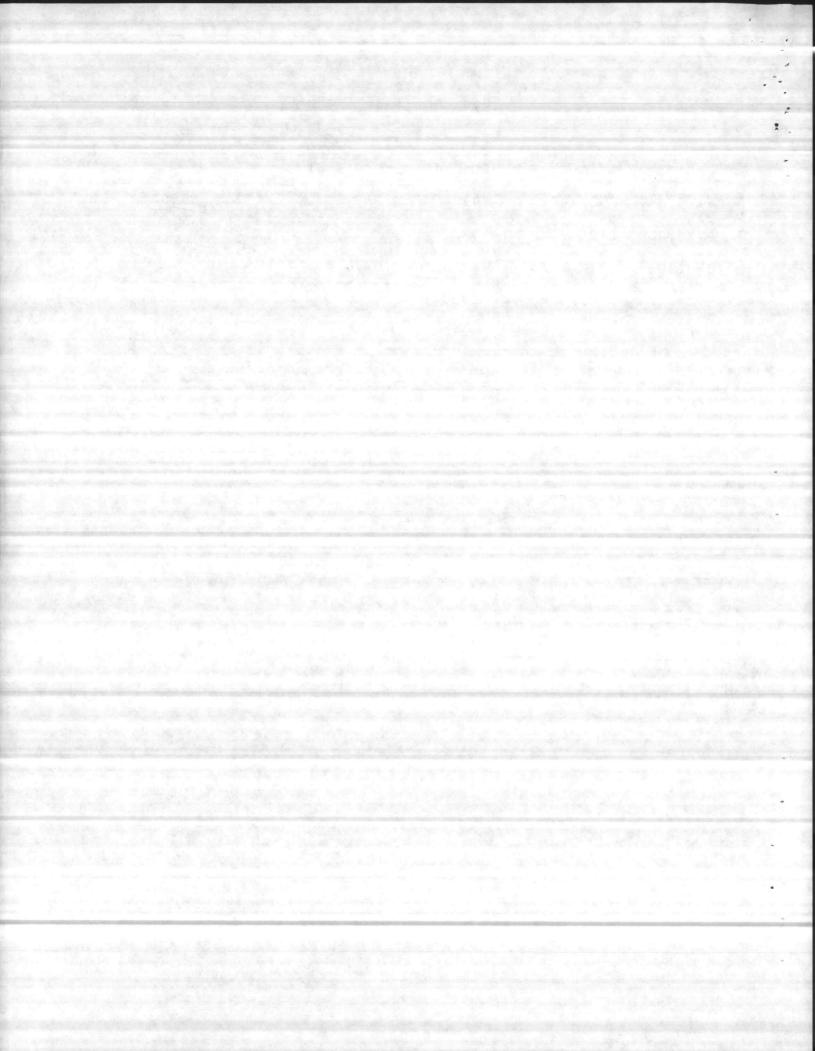
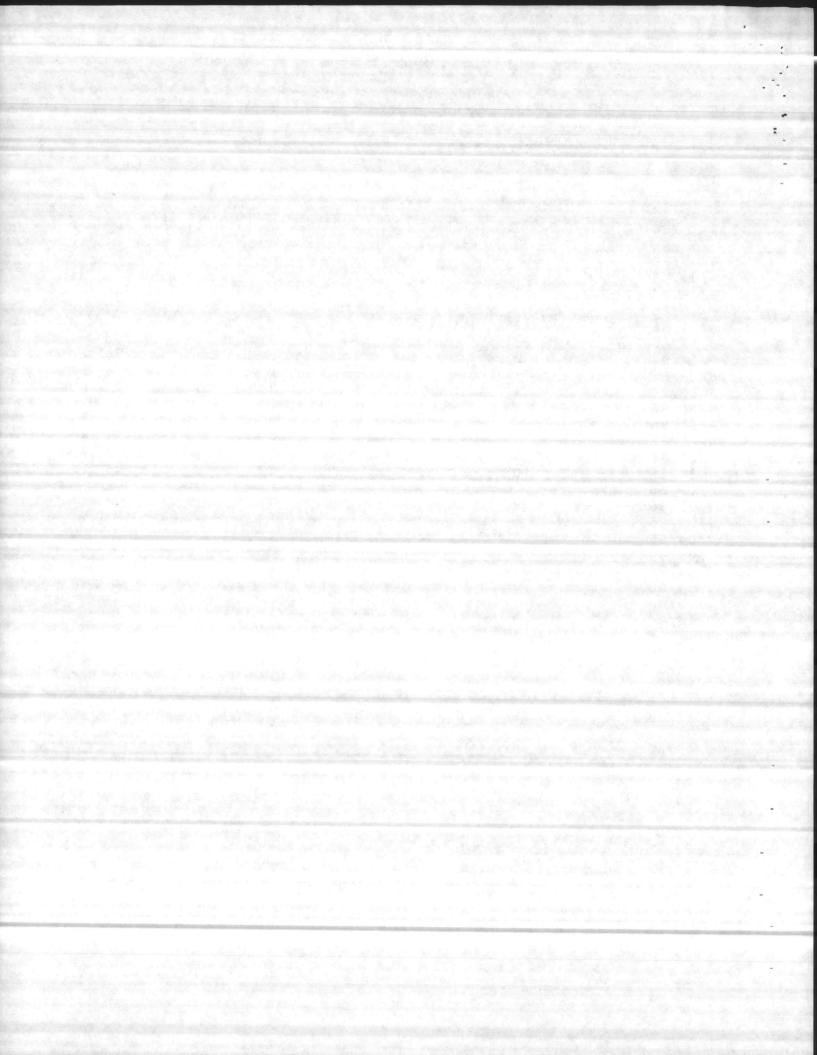


TABLE IV

GROUND SURVEY NUMBER
(NIGHT NOT SEPERATED AT MIDNIGHT)

Date	Crawl/No Nest	Crawl/Nest	Total
5/26/86	1	0	1
5/27/86	1	0	1.
5/28/86	1	0	1
5/31/86	0	2	2
6/04/86	2	0	2
6/06/86	1	0	1
6/07/86	1	0	1
6/08/86	0	1	1
6/10/86	3	1	4
6/11/86	2	0	2
6/13/86	3	0	3
6/14/86	2	1	3
6/16/86	2	1	3
	1	0	1
6/19/86	7	1	2
6/20/86		0	1
6/21/86	†	0	1
6/23/86	6	ĭ	7
6/27/86	Ô	3	3
6/28/86		2	2
6/29/86	0	0	2
7/02/86	2	ì	4
7/03/86	3	ī	3
7/04/86	2	<u>.</u>	3
7/05/86	3	1	2
7/06/86	1	2	5
7/07/86	3	1	3
7/08/86	2	i	10
7/10/86	9	0	1
7/11/86	1	0 .	i
7/14/86	1	2	3
7/15/86		생기 있다. 그리는 이번 바로 이 마음이 없어 보냈다면 뭐 이 점이 생기되었다. 네 [1] [1]	3
7/16/86	2	1 2	2
7/17/86	0		1
7/18/86		1	1
7/21/86	1	0	;
7/22/86	1		2
	2		2
7/26/86			
7/28/86			2
	0	1	
7/30/86	1	0	1
8/02/86		0	3
	0	1	1
	0	1	1
	3	0	3
7/23/86 7/24/86 7/25/86 7/26/86 7/27/86 7/28/86 7/29/86 7/30/86	2 3 5 2 3 1 0 1 3 0	0 0 1 0 1 1 1 0 0 0 1 1	2 3 6 2 4 2 1 1 3 1 1 3



AERIAL SURVEY

DATE: 5/23/86

ONSLOW BEACH:	NC	ос	NN	ON	NP	OP	WEATHER
	0	0	0	0	0	0	CLEAR
BROWNS ISLAND:	NC	ос	NN	ON	NP	OP	
	0	0	0	0	0	0	CLEAR
BEAR ISLAND:	NC	oc	NN	ON	NP	OP	
	0	0	0	0	0	0	CLEAR
DATE: 5/28/86							
ONSLOW BEACH:	NC	ос	NN	ON	NP	OP	WEATHER
	0	0	0	0	0	0	FOG/HAZE
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP	
S. S. Service	0	0	0	0	0	0	FOG/HAZE
BEAR ISLAND:	NC	oc	NN	ON	NP	OP	
	3	0	3	0	0	0	FOG/HAZE
DATE: 5/30/86							
ONSLOW BEACH:	NC	ос	NN	ON	NP	OP	WEATHER
	0	0	0	0	0	0	FOG/HAZE
BROWNS ISLAND:	NC	oc	NN	ON	NP	.OP	
	0	0	0	0	0	0	FOG/HAZE
BEAR ISLAND:	NC	oc	NN	ON	NP	OP	in the property of the second
	2	0	2	2	0	0	FOG/HAZE

--SYMBOLS:

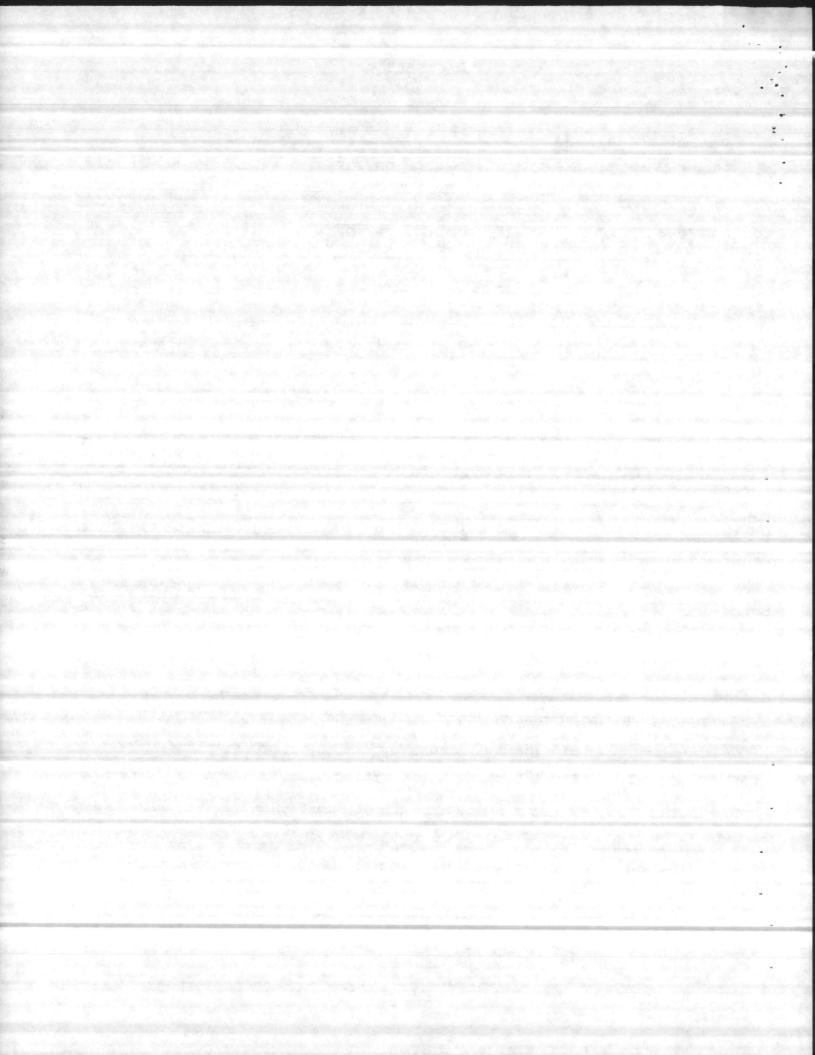
NC = NEW CRAWL

OC = OLD CRAWL

NN = NEW NEST

ON = OLD NEST

NP = NEW PREDATION



AERIAL SURVEY

DATE: 6/03/86

0, 00, 00							
ONSLOW BEACH:	NC	oc	NN	ON	NP	OP	WEATHER
	0	0	0	0	0	.0	OVERCAST/FOG
BROWNS ISLAND:	0 NC	oc	0 NN	O ON	NP	OP	
	0	0	0	0	0	0	OVERCAST/FOG
BEAR ISLAND:	NC	oc	NN	ON	NP	OP	
	0	0	0	0	0	0	OVERCAST/FOG
DATE: 6/05/86							
ONSLOW BEACH:	NC	ос	NN	ON	NP	OP	WEATHER
	1	0	0	0	0	0	FOG
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP	
the state of the s	0	0	0	0	0	0	FOG
BEAR ISLAND:	NC	oc	NN	ON	NP	OP	
	3	0	2	0	0	0	FOG
DATE: 6/10/86							
ONSLOW BEACH:	NC	ос	. NN	ON	NP	OP	WEATHER
es alliano de la como	3	0	3	0	0	0	CLEAR
BROWNS ISLAND:	NC	ос	NN	ON	NP	.OP	
	2	0	1	0	0	0	CLEAR
BEAR ISLAND:	NC	oc	NN	ON	NP	OP	
	0	0	0	0	0	0	CLEAR

--SYMBOLS:

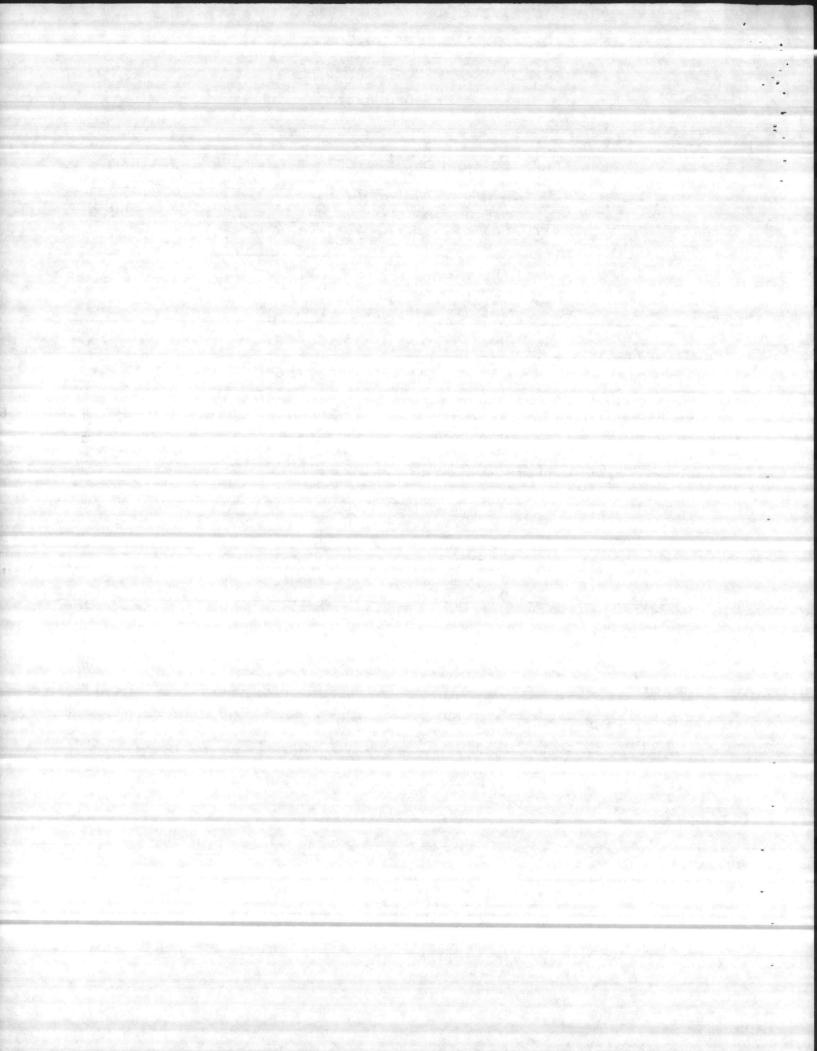
NC = NEW CRAWL

OC = OLD CRAWL

NN = NEW NEST

ON = OLD NEST

NP = NEW PREDATION



AERIAL SURVEY

DATE: 6/12/8	/86	2	/1	5		E	I.	A	D	
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0,12,00							
ONSLOW BEACH:	NC	oc	NN	ON	NP	OP	WEATHER
	5	0	0	0	0	.0	CLEAR/FOG/HAZE
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP	
	6	2	1	1	0	0	CLEAR/FOG/HAZE
BEAR ISLAND:	NC	oc	NN	ON	NP	OP	
	1	0	1	0	0	0	CLEAR/FOG/HAZE
DATE: 6/17/86							
ONSLOW BEACH:	NC	ос	NN	ON	NP	OP	WEATHER
	2	0	2	0	0	0	FOG/HAZE
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP	
	6	0	5 NN	0 ON	1	0	FOG/HAZE
BEAR ISLAND:	NC	oc	NN	ON	NP	OP	
	3	0	3	0	0	0	FOG/HAZE
DATE: 6/19/86							
ONSLOW BEACH:	NC	oc	. NN	ON	NP	OP	WEATHER
All the second	1	0	1	0	0	0	OVERCAST
BROWNS ISLAND:	NC	oc	NN	ON	NP	.OP	
	2	0	2	0	0	0	OVERCAST
BEAR ISLAND:	NC	oc	NN	ON	NP	OP	
	7	0	5	0	0	0	OVERCAST

--SYMBOLS:

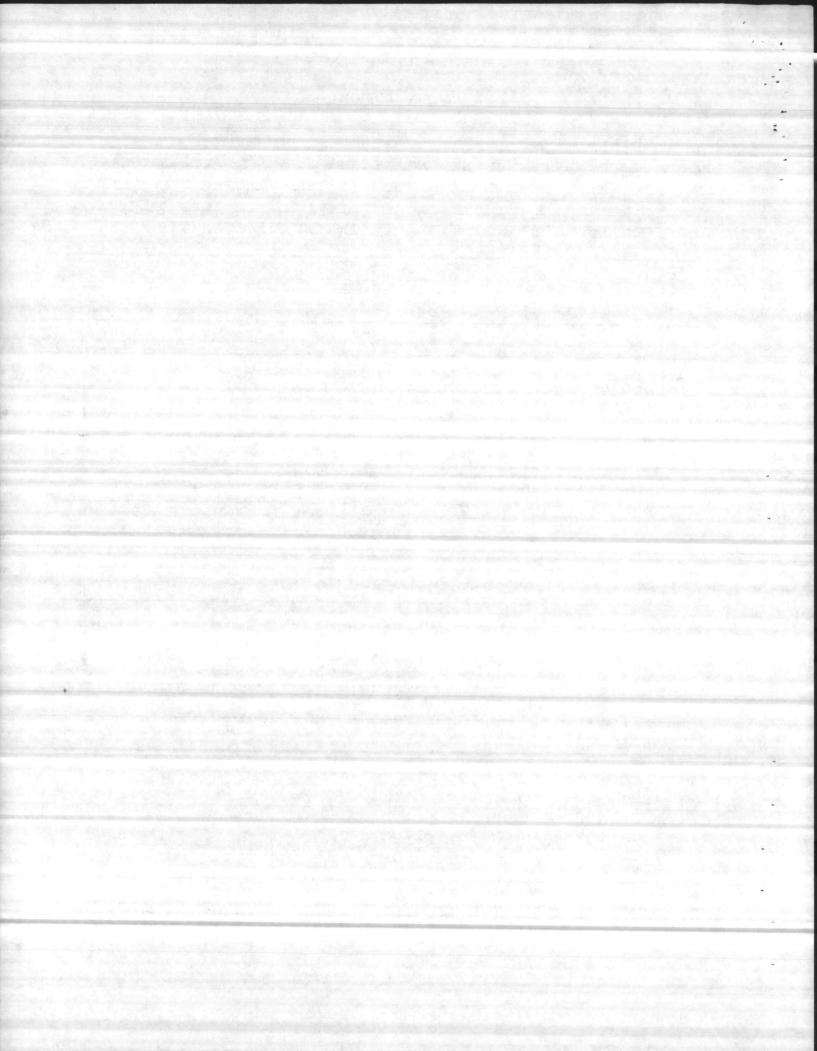
NC = NEW CRAWL

OC = OLD CRAWL

NN = NEW NEST

ON = OLD NEST

NP = NEW PREDATION



AERIAL SURVEY

DATE: 6/24/86

ONSLOW BEACH:	NC	ос	NN	ON	NP	OP		WEATHER
	1	0	1	0	0	-0		CLEAR
BROWNS ISLAND:	NC	ос	NN	ON	NP	OP		
	0	0	0	0	0	0		CLEAR
BEAR ISLAND:	NC	oc	NN	ON	NP	OP		
	0	0	0	0	0	0		CLEAR
DATE: 6/26/86								
ONSLOW BEACH:	NC	ос	NN	ON	NP	OP		WEATHER
	0	0	0	0	0	0		CLEAR
BROWNS ISLAND:	NC	ос	NN	ON	NP	OP		
	1	0	1	0	0	0	and the second	CLEAR
BEAR ISLAND:	NC	oc	NN	ON	NP	OP		
	1	0	1	0	0	0		CLEAR
DATE: 7/01/86								
ONSLOW BEACH:	NC	ос	. NN	ON	NP	OP		WEATHER
	0	0	0	0	0	0		CLEAR
BROWNS ISLAND:	NC	oc	NN	ON	NP	.OP		
	2	0	2	0	0	0		CLEAR
BEAR ISLAND:	NC	oc	NN	ON	NP	OP		
	0	0	0	0	0	0		CLEAR

--SYMBOLS:

NC = NEW CRAWL

OC = OLD CRAWL

NN = NEW NEST

ON = OLD NEST

AERIAL SURVEY

DATE	:	7/	03	/86
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· //03/66								
ONSLOW BEACH:	NC	ос	NN	ON	NP	OP		WEATHER
	2	0	2	0	0	.0		FOG/HAZE
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP		
	0	0	0	0	0	0		FOG/HAZE
BEAR ISLAND:	NC	oc	NN	ON	NP	OP		
	3	0	3	0	0	0	44.00	FOG/HAZE
DATE: 7/08/86								
ONSLOW BEACH:	NC	ос	NN	ON	NP	OP		WEATHER
	4	0	4	0	0	0		CLEAR
BROWNS ISLAND:	NC	ОС	NN	ON	NP	OP		
	5	1	5	1	0	0		CLEAR
BEAR ISLAND:	NC	oc	NN	ON	NP	OP		
	2	0	2	0	0	0		CLEAR
DATE: 7/10/86								
ONSLOW BEACH:	NC	ос	. NN	ON	NP	OP		WEATHER
	2	0	2	0	0	0		CLEAR/HAZE
BROWNS ISLAND:	NC	oc	NN	ON	NP	.OP		
	2	0	2	0	0	0		CLEAR/HAZE
BEAR ISLAND:	NC	ос	NN	ON	NP	OP		
	1	0	1	0	0	0		CLEAR/HAZE

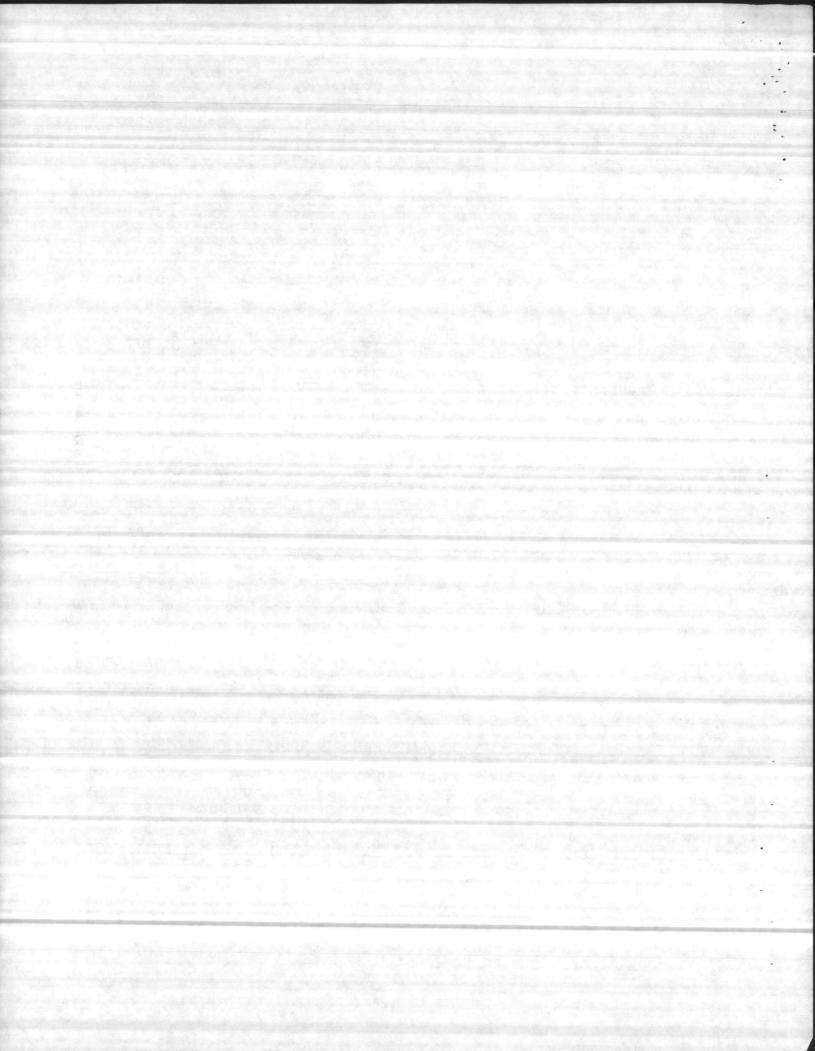
--SYMBOLS:

NC = NEW CRAWL

OC = OLD CRAWL

NN = NEW NEST

ON = OLD NEST



AERIAL SURVEY

DATE: 7/15/86

ONSLOW BEACH:	NC	ос	NN	ON	NP	OP	WEATHER
	1	0	1	0	0	0	CLEAR
BROWNS ISLAND:	NC	OC	NN	ON	NP	OP	
	2	0	2	0	0	0	CLEAR
BEAR ISLAND:	NC	ос	NN	ON	NP	OP	
	2	0	2	0	0	0	CLEAR
DATE: 7/18/86							
ONSLOW BEACH:	NC	ос	NN	ON	NP	OP	WEATHER
	1	0	1	0	0	0	CLEAR/FOG/HAZE
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP	
The state of the second state of the second	2	0	2	0	0	0	CLEAR/FOG/HAZE
BEAR ISLAND:	NC	oc	NN	ON	NP	OP	
	1	0	1	0	0	0	CLEAR/FOG/HAZE
DATE: 7/22/86							
ONSLOW BEACH:	NC	ос	. NN	ON	NP	OP	WEATHER
	1	0	1	0	0	0	HAZE/FOG
BROWNS ISLAND:	NC	oc	NN	ON	NP	.OP	
	4	0	4	0	0	0	HAZE/FOG
BEAR ISLAND:	NC	oc	NN	ON	NP	OP	
	1	0	1	0	0	0	HAZE/FOG

--SYMBOLS:

NC = NEW CRAWL

OC = OLD CRAWL

NN = NEW NEST

ON = OLD NEST

NP = NEW PREDATION

AERIAL SURVEY

DATE: 7/2	5/86
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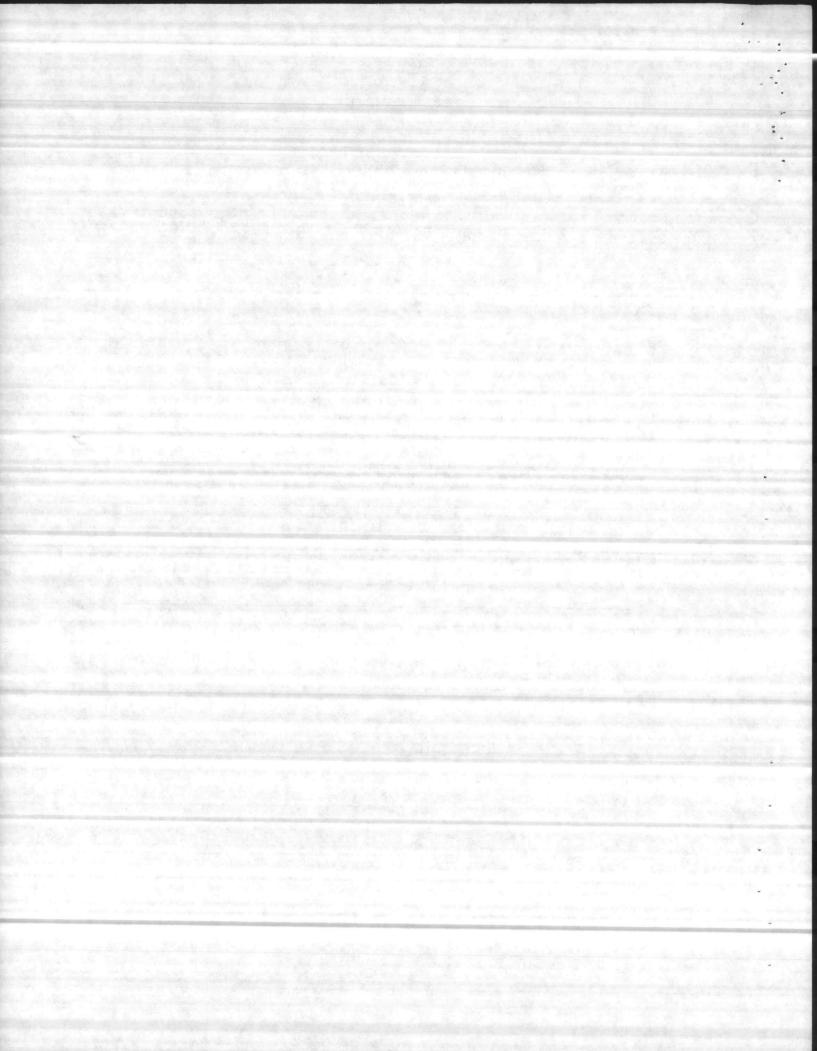
ONSLOW BEACH:	NC	oc	NN	ON	NP	OP	WEATHER
	2	0	1	0	0	.0	HAZE/FOG
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP	
	2	0	2	0	0	0	HAZE/FOG
BEAR ISLAND:	NC	oc	NN	ON	NP	OP	
	0	0	0	0	0	0	HAZE/FOG
DATE: 7/29/86							
ONSLOW BEACH:	NC	ос	NN	ON	NP	OP	WEATHER
	1	0	1	0	1	0	HAZE/FOG
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP	
	5	0	5	0	0	0	HAZE/FOG
BEAR ISLAND:	NC	oc	NN	ON	NP	OP	
	2	0	2	0	0	0	HAZE/FOG
DATE: 8/01/86							
ONSLOW BEACH:	NC	oc	. NN	ON	NP	OP	WEATHER
	0	0	0	0	0	0	HAZE/FOG
BROWNS ISLAND:	NC	ос	NN	ON	NP	.OP	
	2	0	2	0	0	0	HAZE/FOG
BEAR ISLAND:	NC	ОС	NN	ON	NP	OP	
			Secretary to the	And to	12000		

--SYMBOLS: NC = NEW CRAWL

OC = OLD CRAWL

NN = NEW NEST

ON = OLD NEST



AERIAL SURVEY

DATE: 8/05/86

0,03,00								
ONSLOW BEACH:	NC	ос	NN	ON	NP	OP		WEATHER
	0	0	0	0	0	0		HAZE/FOG
BROWNS ISLAND:	NC	ос	NN	ON	NP	OP		
	5	0	5	0	0	0		HAZE/FOG
BEAR ISLAND:	NC	ос	NN	ON	NP	OP		
	2	0	2	0	0	0		HAZE/FOG
DATE: 8/08/86								
ONSLOW BEACH:	NC	ос	NN	ON	NP	OP		WEATHER
	0	0	0	0	0	0		CLEAR
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP		
	3	0	3	0	0	0	4885	CLEAR
BEAR ISLAND:	NC	oc	NN	ON	NP	OP		
	6	0	6	0	0	0		CLEAR
DATE: 8/12/86								orani de la compania
ONSLOW BEACH:	NC	ос	. NN	ON	NP	OP		WEATHER
	3	0	2	0	0	0	N. Albania	THUNDERSTORM
BROWNS ISLAND:	NC	ос	NN	ON	NP	.OP		
	0	0	0	0	0	0		THUNDERSTORM
BEAR ISLAND:	NC	oc	NN	ON	NP	OP		A Property of the Contract of
	2	0	2	0	0	0		THUNDERSTORM
					Children in the Control of the Contr			

--SYMBOLS:

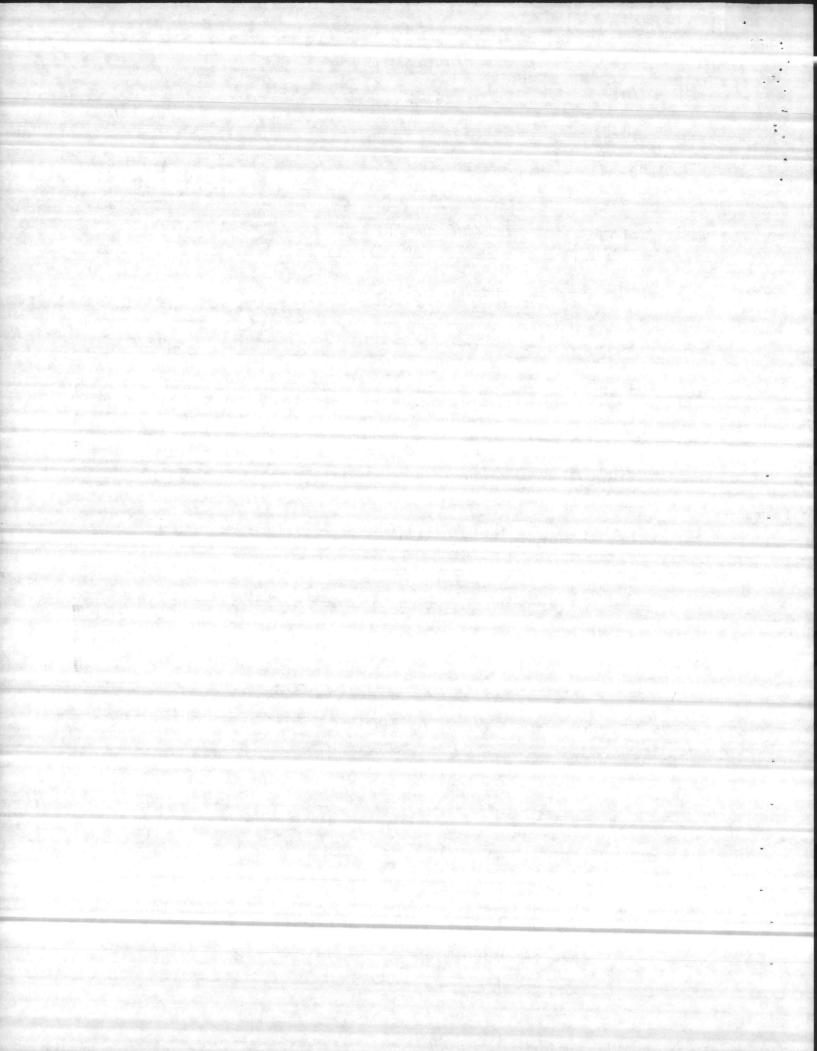
NC = NEW CRAWL

OC = OLD CRAWL

NN = NEW NEST

ON = OLD NEST

NP = NEW PREDATION



AERIAL SURVEY

DATE: 8/14/86							
ONSLOW BEACH:	NC	oc	NN	ON	NP	OP	WEATHER
	2	0	2	0	0	.0	HAZE/FOG
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP	
	0	0	0	0	0	0	HAZE/FOG
BEAR ISLAND:	NC	OC	NN	ON	NP	OP	
	3	0	3	0	0	0	HAZE/FOG
DATE: 8/19/86							DANSE PROPERTY OF THE PROPERTY
ONSLOW BEACH:	NC	oc	NN	ON	NP	OP	WEATHER

BEAR ISLAND:	NC C	C NN	ON	NP	OP	
						2

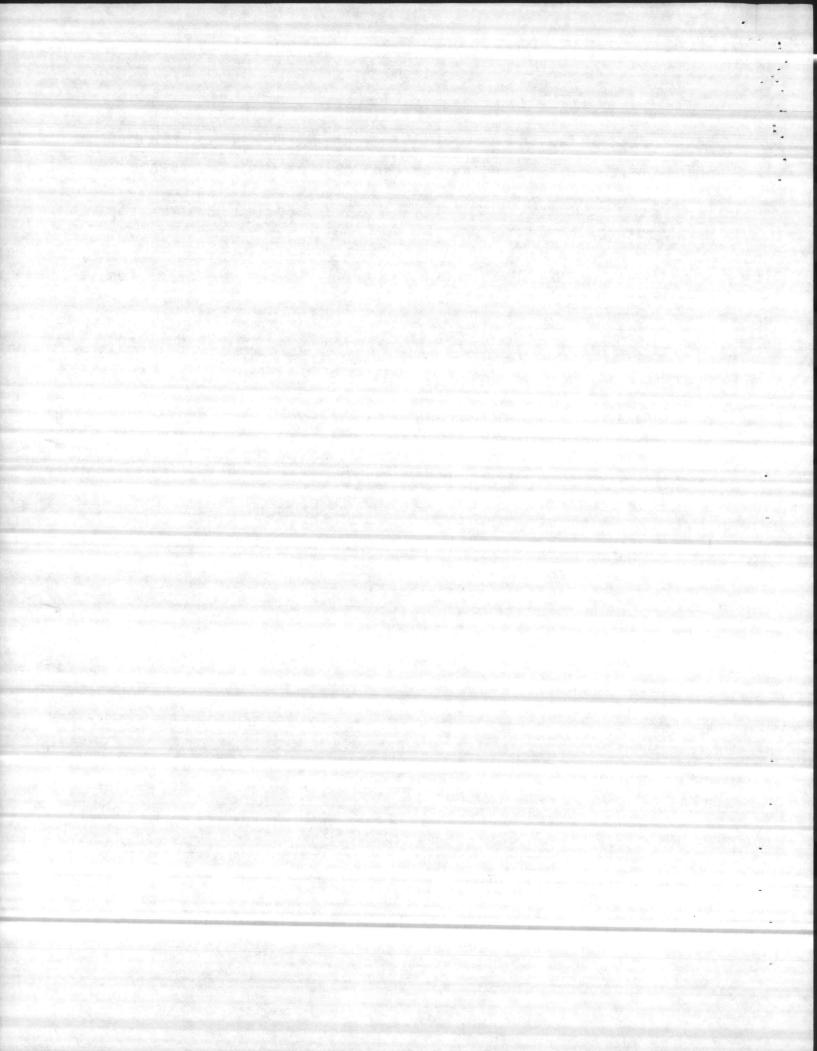
	2	0	2	0	0	0	HAZE/FOG	
BEAR ISLAND:	NC	oc	NN	ON	NP	OP		
	2	0	2	0	0	0	HAZE/FOG	
BROWNS ISLAND:	NC	oc	NN	ON	NP	.OP		
	0	0	0	0	0	0	HAZE/FOG	Tring The Control of
ONSLOW BEACH:	NC	ос	. NN	ON	NP	OP	WEATHER	
DATE: 8/21/86								

--SYMBOLS: NC = NEW CRAWL

OC = OLD CRAWL

BROWNS ISLAND: NC OC NN ON NP OP

NN = NEW NEST ON = OLD NEST



AERIAL SURVEY

	DATE	:	8	/26	/86
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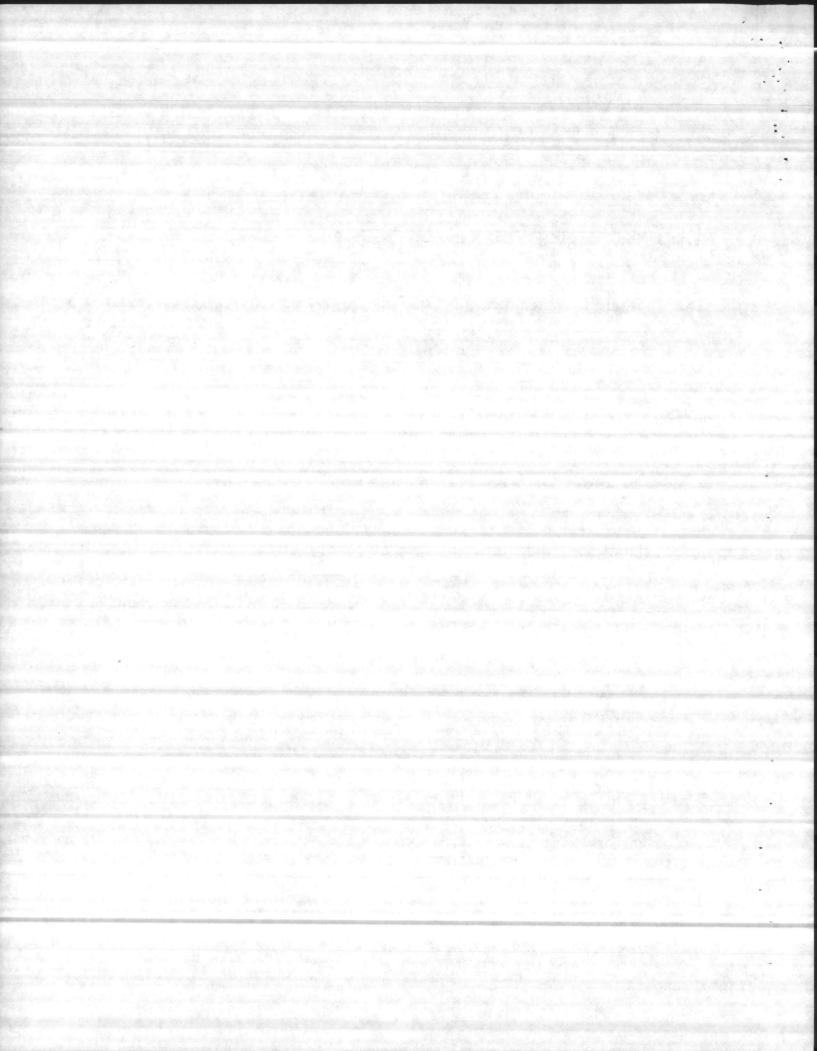
ONSLOW BEACH:	NC	oc	NN	ON	NP	OP		WEATHER
	0	0	0	0	0	.0		HAZE/FOG
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP		
BEAR ISLAND:	0 NC	0 OC	0 NN	0 ON	0 NP	0 OP		HAZE/FOG
BEAR ISLAND.	140			ot.				
	5	0	5	0	0	0		HAZE/FOG
DATE:								
ONSLOW BEACH:	NC	ос	NN	ON	NP	OP		WEATHER
BROWNS ISLAND:	NC	ОС	NN	ON	NP	OP	20.8	
BEAR ISLAND:	NC	OC	NN	ON	NP	OP		
DATE: ONSLOW BEACH:	NC	oc	. NN	ON	NP	OP		WEATHER
BROWNS ISLAND:	NC	ОС	NN	ON	NP	.OP		
			NN	ON	NP	OP	er var til med stad. Hage på talle skyle	

--SYMBOLS: NC = NEW CRAWL

OC = OLD CRAWL

NN = NEW NEST

ON = OLD NEST



PROJECT NAME: ONSLOW BEACH

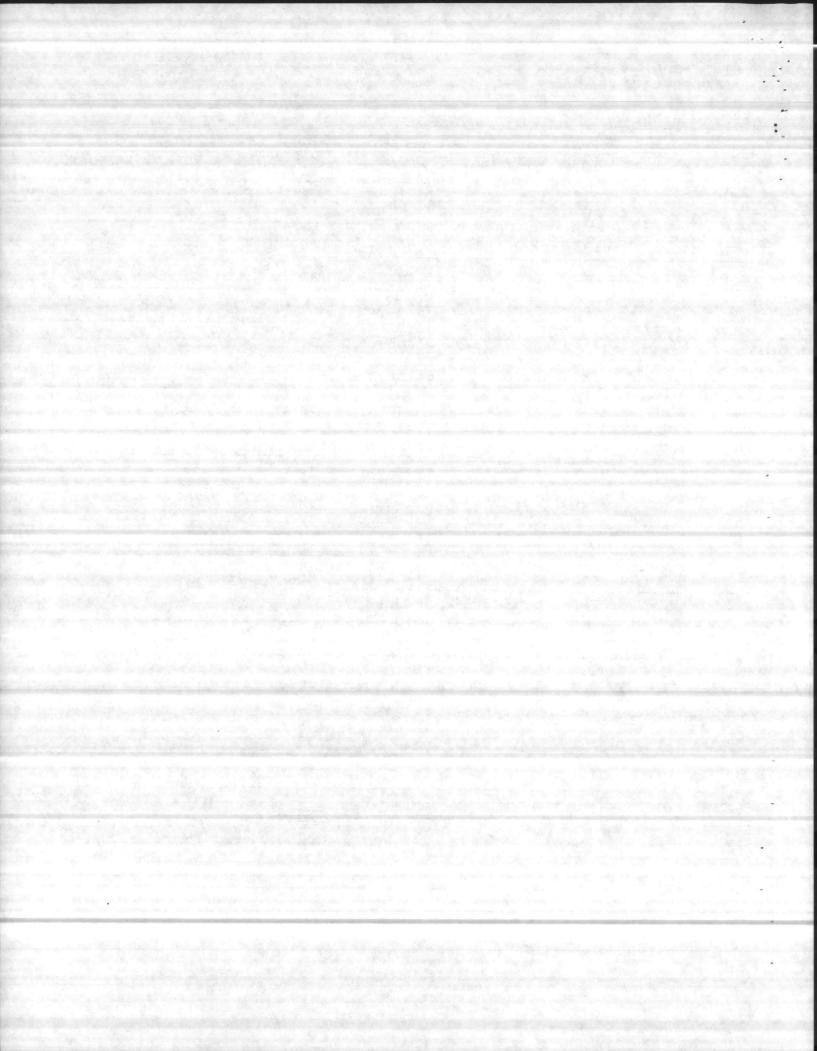
NESTING RESULTS

NEST #	DATE LAID	TREATMEN CODE		INCUBATION TIME		CLUTCH SIZE*	# HATCHED *(HN)	SURVIVAL % *(HN/H+UH)
04	5/31	WIRE	8/01/86	60	days	117	96	82.0%
05	5/31	WIRE	8/01/86	60	days	120	110	91.7%
09	6/08	WIRE	8/25/86	78	days	90	72	80.0%
10	6/10	WIRE	8/25/86	76	days	52	18	34.6%
20	6/14	WIRE	8/19/86	66	days	132	122	92.4%
23	6/16	WIRE	9/08/86	64	days	99	69	69.7%
27	6/20	WIRE	8/19/86	53	days	128	121	94.5%
31	6/27	WIRE	8/22/86	59	days	146	124	84.9%
38	6/28	WIRE	8/22/86	58	days	124	84	67.7%
39	6/28	WIRE	8/22/86	58	days	126	52	41.3%
40	6/28	WIRE	8/2/86	56	days	114	109	95.6%
41	6/29 =	WIRE	9/01/86	65	days	119	117	98.3%
42	6/29	WIRE	9/12/86	76	days	147	42	28.6%
45	7/03	WIRE	8/25/86	50	days	123	115	93.5%
50	7/04	WIRE	8/25/86	49	days	105	100	95.2%
55	7/06	WIRE	9/01/86	57	days	168	156	92.9%
59	7/07	WIRE	9/08/86	63	days	153	145	94.8%
60	7/07	WIRE	9/01/86	56	days	133	106	79.7%
62	7/08	WIRE	9/08/86	62	days	152	131	36.8%
68	7/10	WIRE	9/09/86	64	days	101	71	70.0%
77	7/15	WIRE	9/15/86	60	days	84	60	71.4%

^{*} Clutch size determined from nest remains.

^{*} HN = hatched, escaped from nest *H = hatched

^{*} UH = unhatched



PROJECT NAME: ONSLOW BEACH

NORTH CAROLINA SEA TURTLE CONSERVATION 1986

NESTING RESULTS

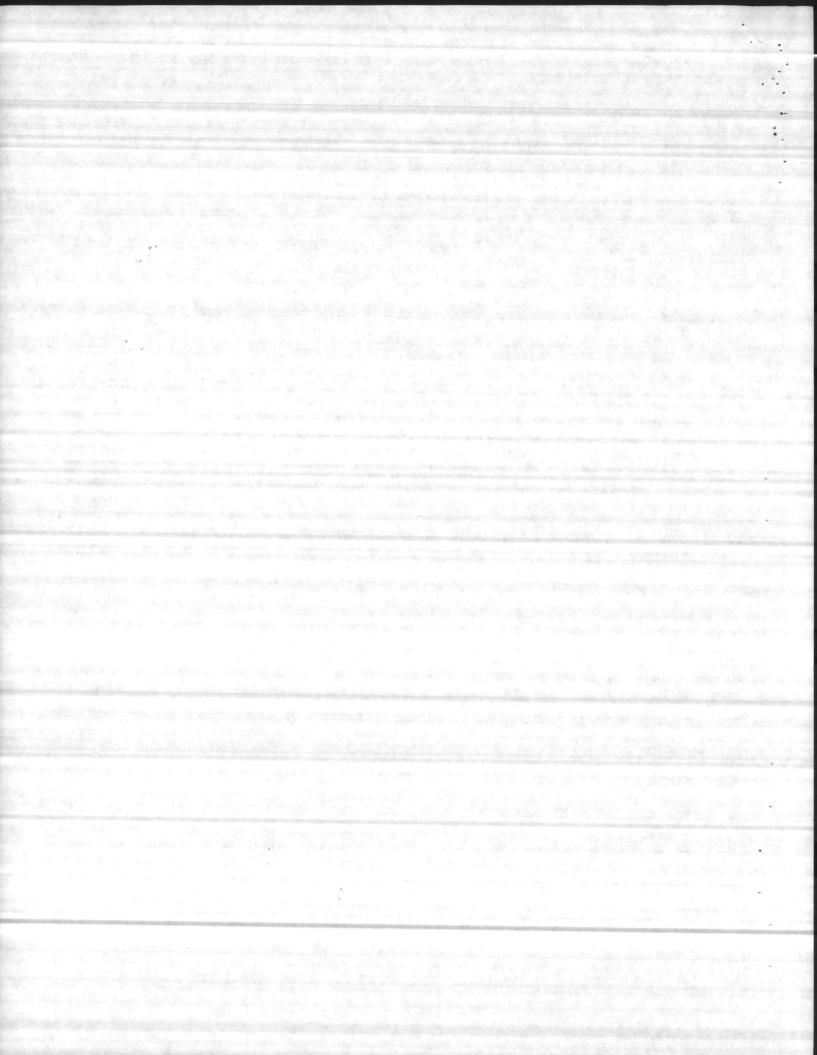
NEST #	DATE	TREATMENT	DATE HATCHED	INCUB	ATION IME	CLUTCH SIZE*	#	HATCHED (HN)	SURVIVAL % (HN/H+UH)
79	7/15	WIRE	9/27/86	74	days	81		61	75.3%
81	7/16	WIRE	9/15/86	61	days	134		82	61.2%
-83	7/17	WIRE	9/27/86	72	days	123		33	26.8%
84	7/17	WIRE	9/20/86	65	days	106		94	88.7%
85	7/18	WIRE	9/27/86	71	days	133		113	84.9%
94	7/25	WIRE	10/01/86	67	days	89		59	75.3%
103	7/27	WIRE	10/13/86	78	days	104		9.4	90.4%
104	7/28	WIRE	10/13/86	77	days	115		115	100.0%
106	7/29/	WIRE	10/03/86	65	days	135		105	77.8%
111	8/04	WIRE	10/17/86	74	days	132		93	72.0%
112	8/09	WIRE	10/31/86	80	days	116		85	74.1%

^{*} Clutch size determined from nest remains.

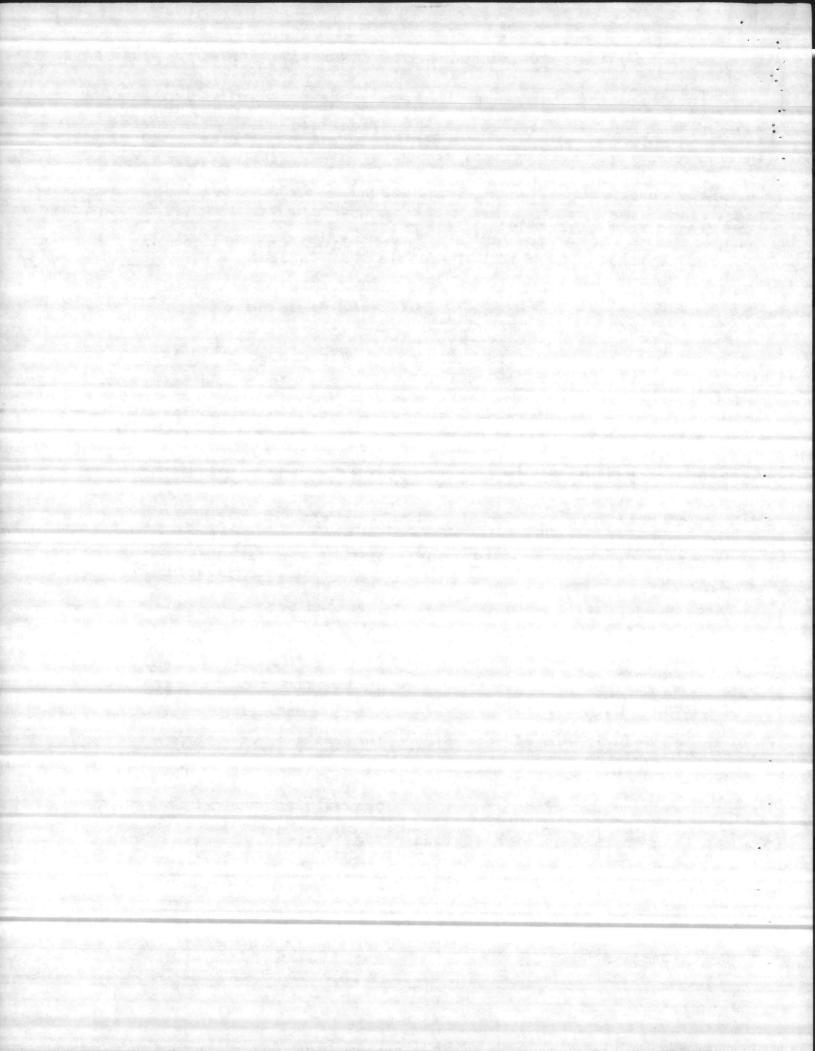
^{*} HN = hatched, escaped from nest

^{*} H = hatched

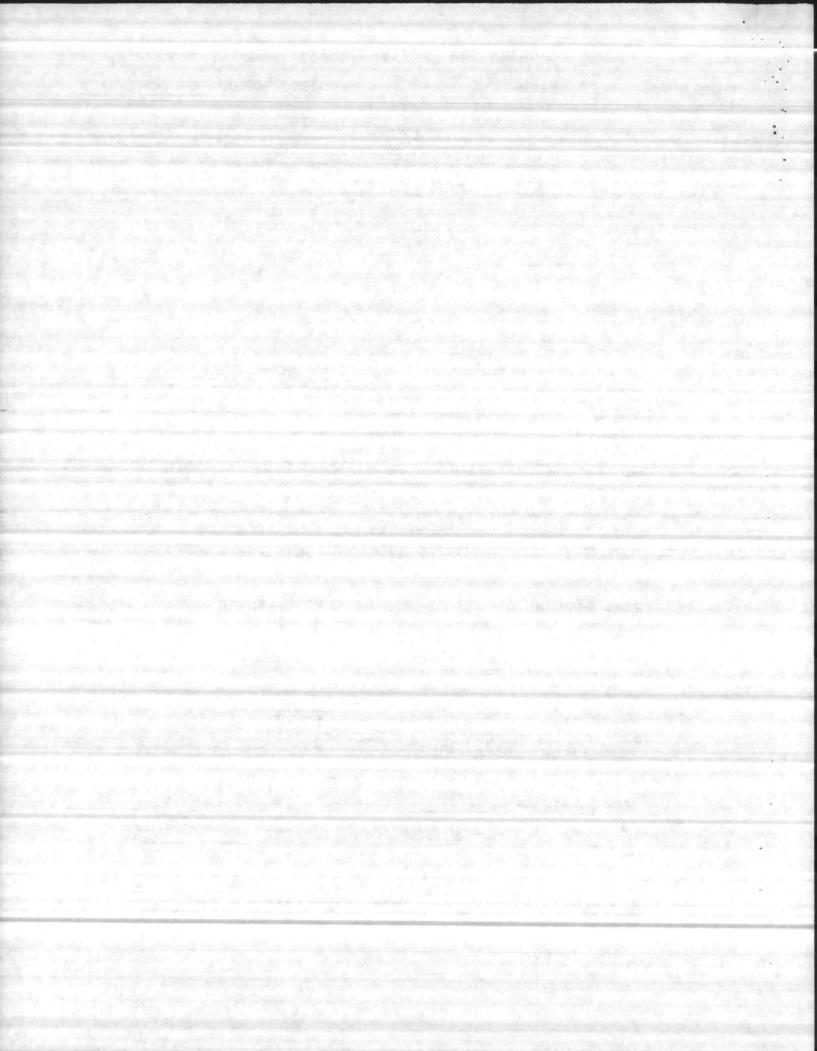
^{*} UH = unhatched



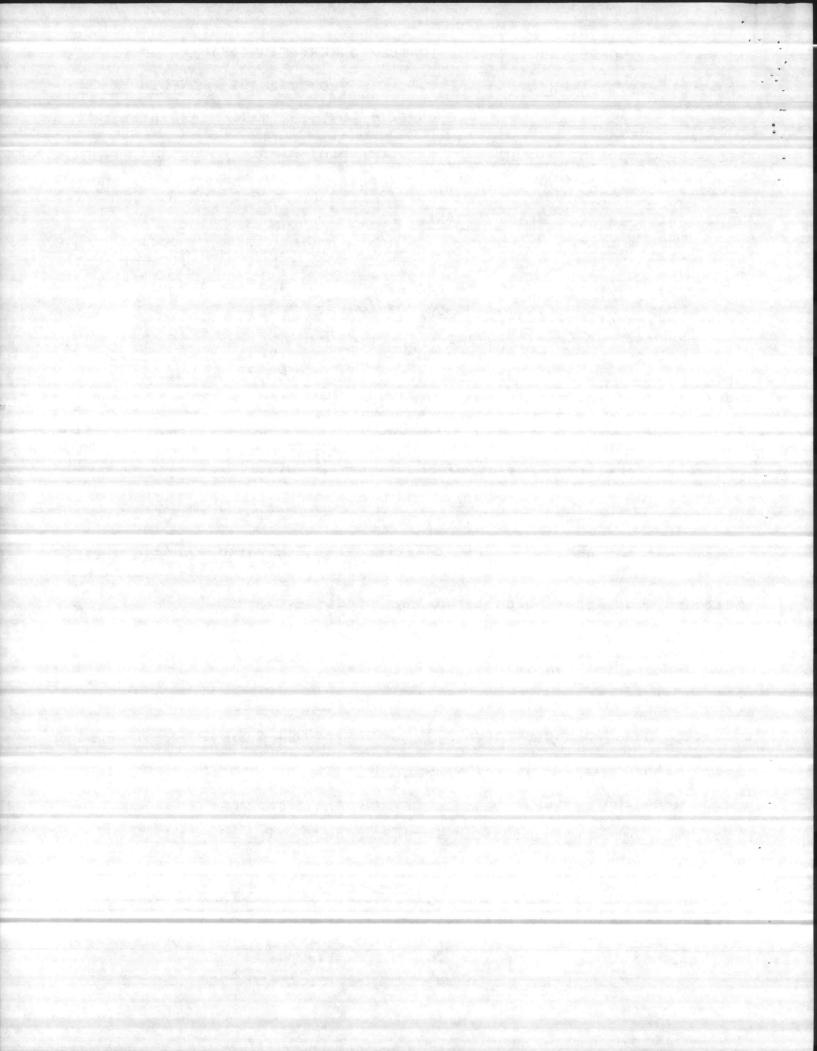
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 04 Date nest laid $5/31/86$ Time laid 0230 (estimate)
Site Description 2.75 miles south of Risley Pier
Turtle observed Y N Tags Y N
Distance from high tide: 20 Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length N/A in. (Straight) Carapace width N/A in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: N/A (date: 6/09/86)
Relocated where? 2.0 miles south of Risley Pier
Number of eggs: whole: 117 broken: 1 nest depth: 14 cm
Date nest hatched: 8/01/86 (estimate?) Excavated by: G. E. FINLEY Date excavated: 8/18/86
Hatched eggs, from which hatchlings escaped from egg $H = 97$
Hatched, escaped from nest $HN = 96$ Hatched, dead in nest 1 Hatched, alive in nest 0
Unhatched eggs UH = 20
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{82}{V}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh North Carolina 27611.



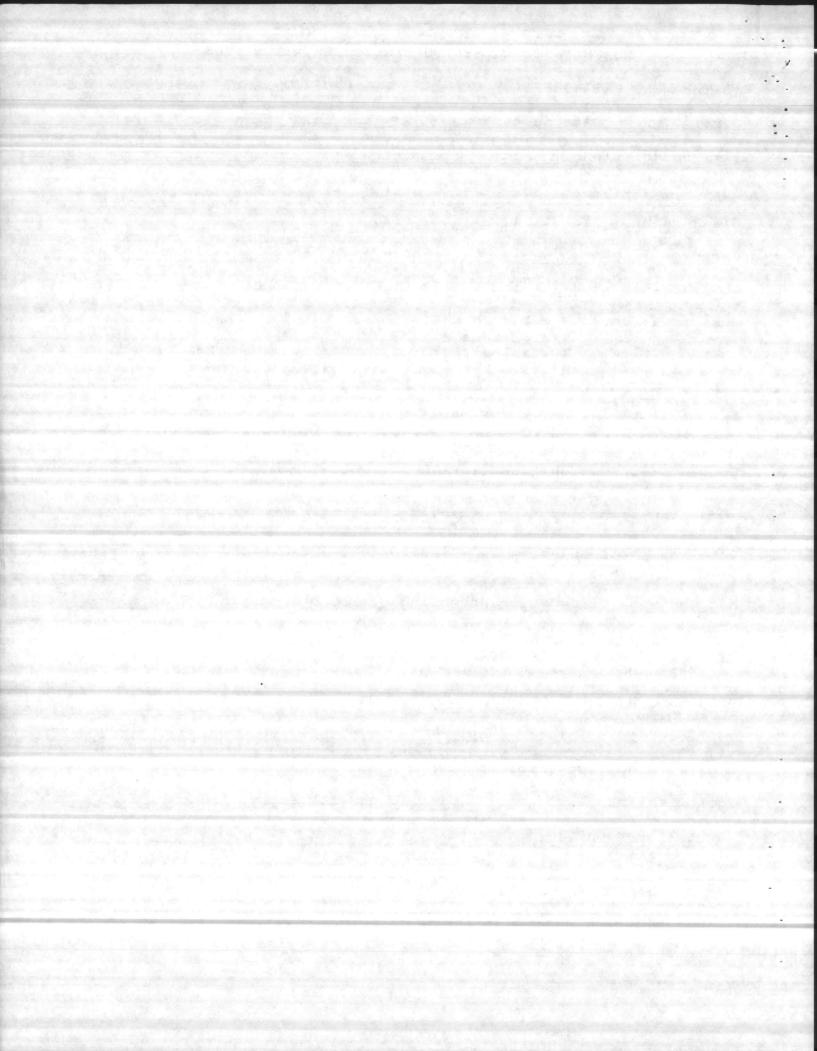
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 05 Date nest laid $5/31/86$ Time laid 0230 (estimate)
Site Description 2.5 miles north of Risley Pier
Turtle observed Y N Tags Y N
Distance from high tide: 20 Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length $\frac{N/A}{}$ in. (Straight) Carapace width $\frac{N/A}{}$ in.
Nest treatment: M = Marked only (W) = Wire cage R = Relocated H = Hatchery Time moved: N/A N/A
Relocated where? N/A
Number of eggs: whole: 120 broken: 0 nest depth: 12 cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 8/01/86 (estimate?) Excavated by: G. E. FINLEY Date excavated # 8/18/86
Hatched eggs, from which hatchlings escaped from egg $H = 110$
Hatched, escaped from nest $HN = \frac{110}{0}$ Hatched, dead in nest 0 Hatched, alive in nest 0
Unhatched eggs UH = 10
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{91}{VN}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh North Carolina 27611.



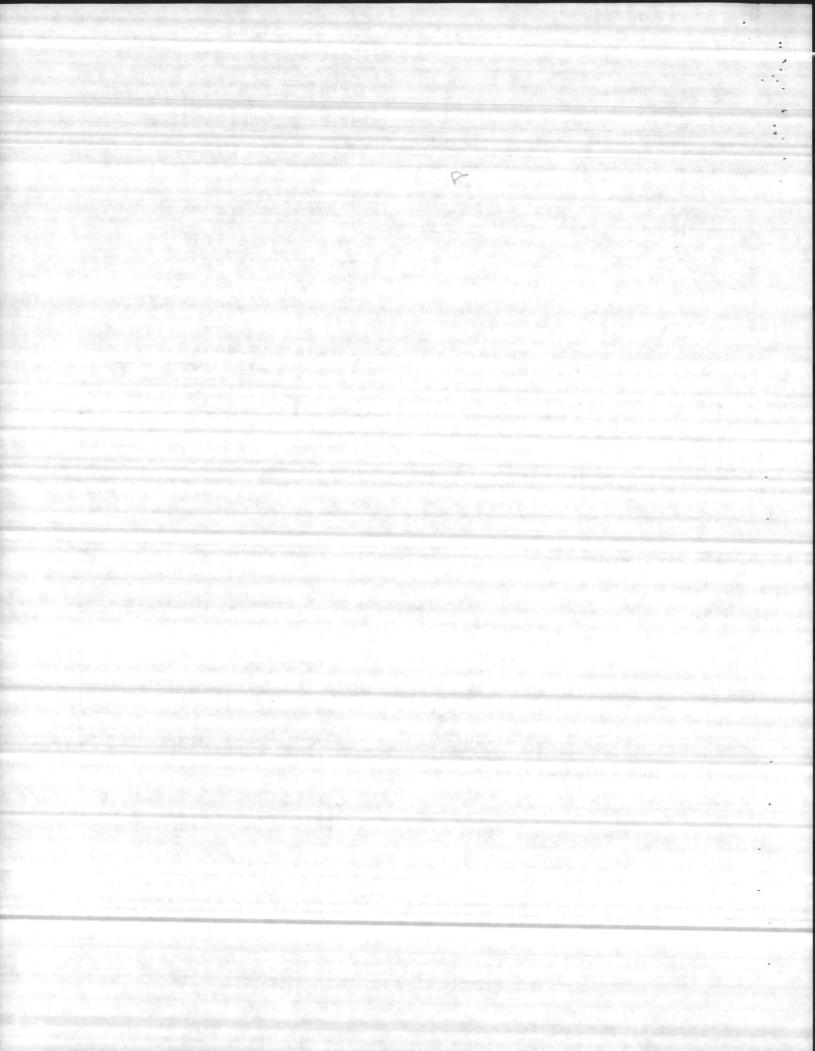
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 09 Date nest laid $6/08/86$ Time laid 0730 (estimate)
Site Description .65 miles north of Risley Pier
Turtle observed Y N Tags Y N
Distance from high tide: 45 Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length $\frac{N/A}{}$ in. (Straight) Carapace width $\frac{N/A}{}$ in.
Nest treatment: $M = Marked only$ $\widehat{W} = Wire cage$ $R = Relocated$ $H = Hatchery$ Time moved: N/A N/A
Relocated where? N/A
Number of eggs: whole: 90 broken: 0 nest depth: 14 cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 8/25/86 (estimate?) Excavated by: G. E. FINLEY Date excavated: 8/27/86
Hatched eggs, from which hatchlings escaped from egg $H = 72$
Hatched, escaped from nest $HN = \frac{72}{0}$ Hatched, dead in nest 0 Hatched, alive in nest 0
Unhatched eggs UH = 18
Turtles dead in pipped eggs $\frac{N/A}{}$. Turtles alive in pipped eggs $\frac{N/A}{}$
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm $\frac{N/A}{}$ Eggs with embryo > 3 cm $\frac{N/A}{}$
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{80 \%}{LUN}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh North Carolina 27611.



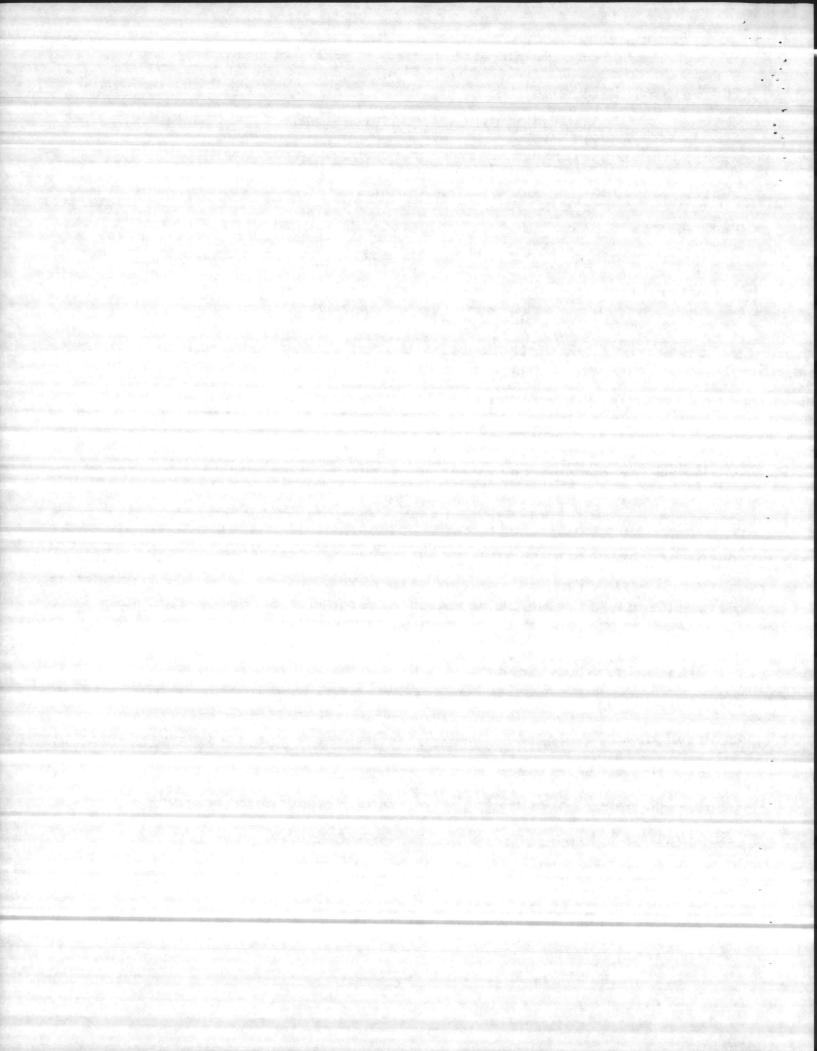
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 10 Date nest laid $6/10/86$ Time laid 0830 (estimate)
Site Description 1.9 miles north of Risley Pier
Turtle observed Y N Tags Y N
Distance from high tide: 15 Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length $\frac{N/A}{}$ in. (Straight) Carapace width $\frac{N/A}{}$ in.
Nest treatment: $M = Marked only$
Relocated where? N/A
Number of eggs: whole: 52 broken: 0 nest depth: 12 cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 8/25/86 (estimate?) Excavated by: G.E. Finley Date excavated: 9/02/86
Hatched eggs, from which hatchlings escaped from egg $H = 19$
Hatched, escaped from nest $HN = \frac{18}{1}$ Hatched, dead in nest $\frac{1}{0}$
Unhatched eggs UH = 33
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo $<$ 3 cm $\frac{N/A}{}$ Eggs with embryo $>$ 3 cm $\frac{N/A}{}$
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{34.6}{4.0}\%$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh



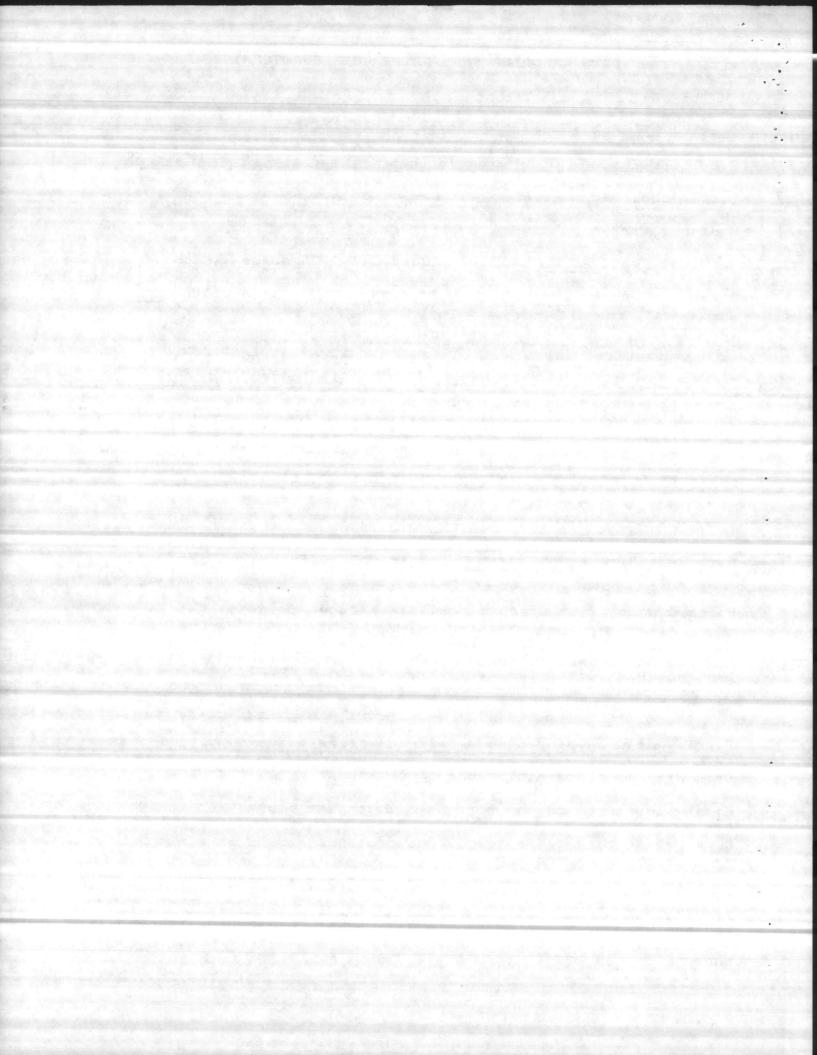
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 20 Date nest laid $6/14/86$ Time laid 0030 (estimate)
Site Description 1.5 miles north of Risley Pier
Turtle observed (Y) N Tags Y (N)
Distance from high tide: N/A Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length $\frac{N/A}{}$ in. (Straight) Carapace width $\frac{N/A}{}$ in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: 0030 N/A
Relocated where? 2.7 miles north of Risley Pier
Number of eggs: whole: 132 broken: 0 nest depth: N/A cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 8/14/86 (estimate?) Excavated by: W.G. BOSTIC Date excavated: 8/20/86
Hatched eggs, from which hatchlings escaped from egg H = 124
Hatched, escaped from nest $HN = 121$ Hatched, dead in nest 2 Hatched, alive in nest 1
Unhatched eggs UH =8
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{90}{4}\%$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh North Carolina 27611.



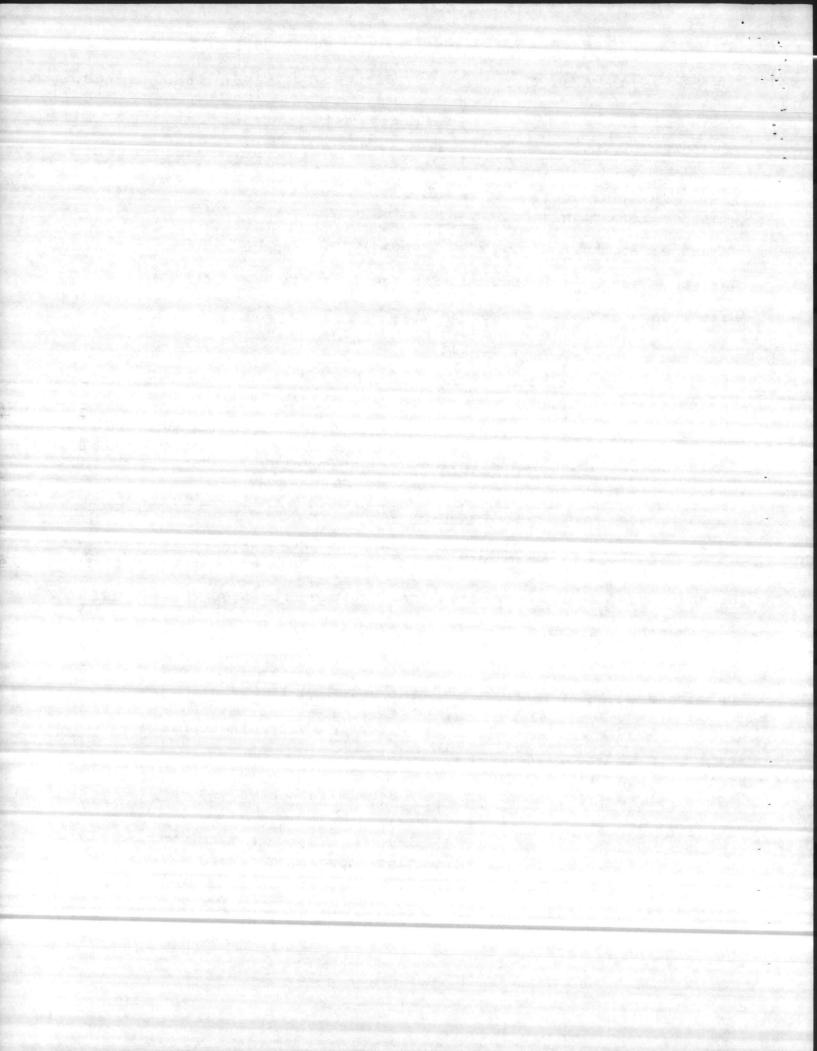
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # $\frac{23}{}$ Date nest laid $\frac{6/16/86}{}$ Time laid $\frac{0130}{}$ (estimate)
Site Description 0.4 miles north of Risley Pier
Turtle observed Y N Tags Y N
Distance from high tide: 35 Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length $\frac{N/A}{}$ in. (Straight) Carapace width $\frac{N/A}{}$ in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: 1700 N/A
Relocated where? 0.4 miles north of Risley Pier up on dunes
Number of eggs: whole: 99 broken: 3 nest depth: 12 cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 9/06/86 (estimate?) Excavated by: G.E. Finley Date excavated: 9/08/86
Hatched eggs, from which hatchlings escaped from egg $H = 69$
Hatched, escaped from nest $HN = 69$ Hatched, dead in nest 0 Hatched, alive in nest 0
Unhatched eggs UH = 30
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm $\frac{N/A}{}$ Eggs with embryo > 3 cm $\frac{N/A}{}$
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{69.7 \%}{+ UN}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh North Carolina 27611.



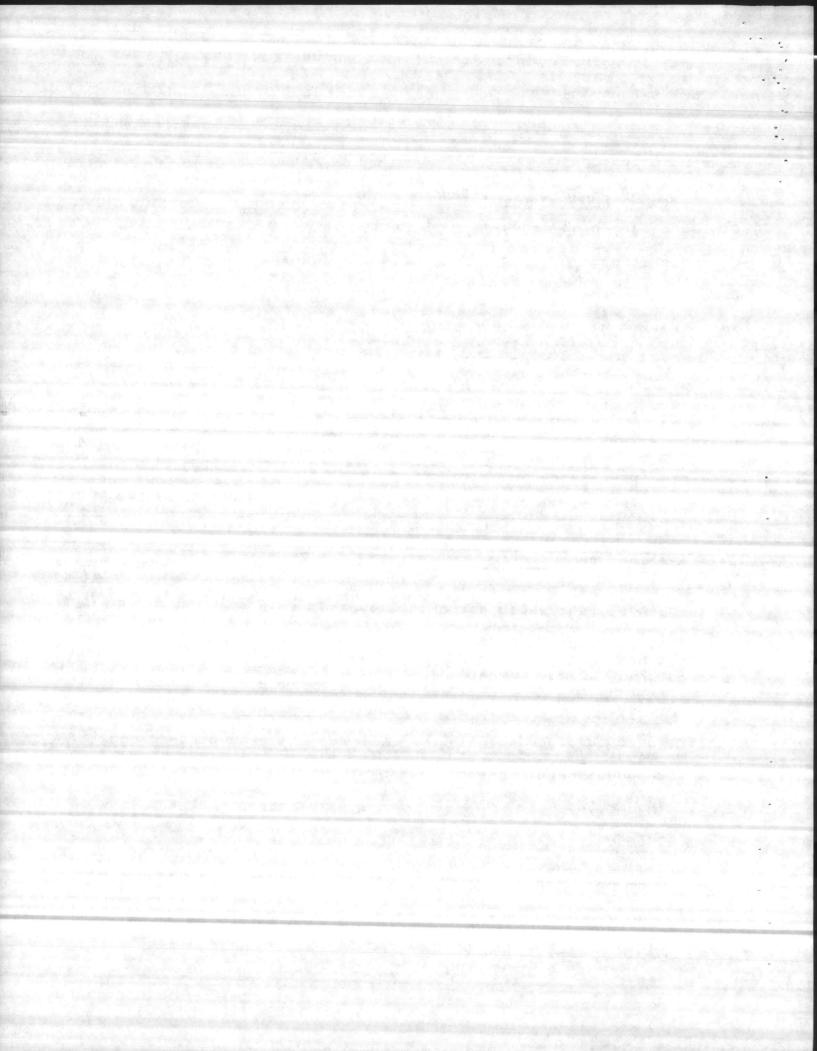
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 27 Date nest laid 6/20/86 Time laid 0400 (estimate)
Site Description 1.8 miles north of Risley Pier
Turtle observed (Y) N Tags (Y) N
Distance from high tide: 35 Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length N/A in. (Straight) Carapace width N/A in.
Nest treatment: $M = Marked only$ $\widehat{W} = Wire cage$ $\widehat{\mathbb{R}} = Relocated$ $H = Hatchery$ Time moved: 0400 N/A
Relocated where? 2.7 miles north of Risley Pier
Number of eggs: whole: 128 broken: 0 nest depth: 40 cm
Comments (predation, description of turtle, etc) N/A HATCHING DATA
Date nest hatched: 8/19/86 (estimate?) Excavated by: W.G. Bostic Date excavated: 8/20/86
Hatched eggs, from which hatchlings escaped from egg $H = 121$
Hatched, escaped from nest $HN = \frac{121}{0}$ Hatched, dead in nest 0 Hatched, alive in nest 0
Unhatched eggs UH = 7
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm $\frac{N/A}{}$ Eggs with embryo > 3 cm $\frac{N/A}{}$
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{94.5}{4}\%$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh North Carolina 27611.



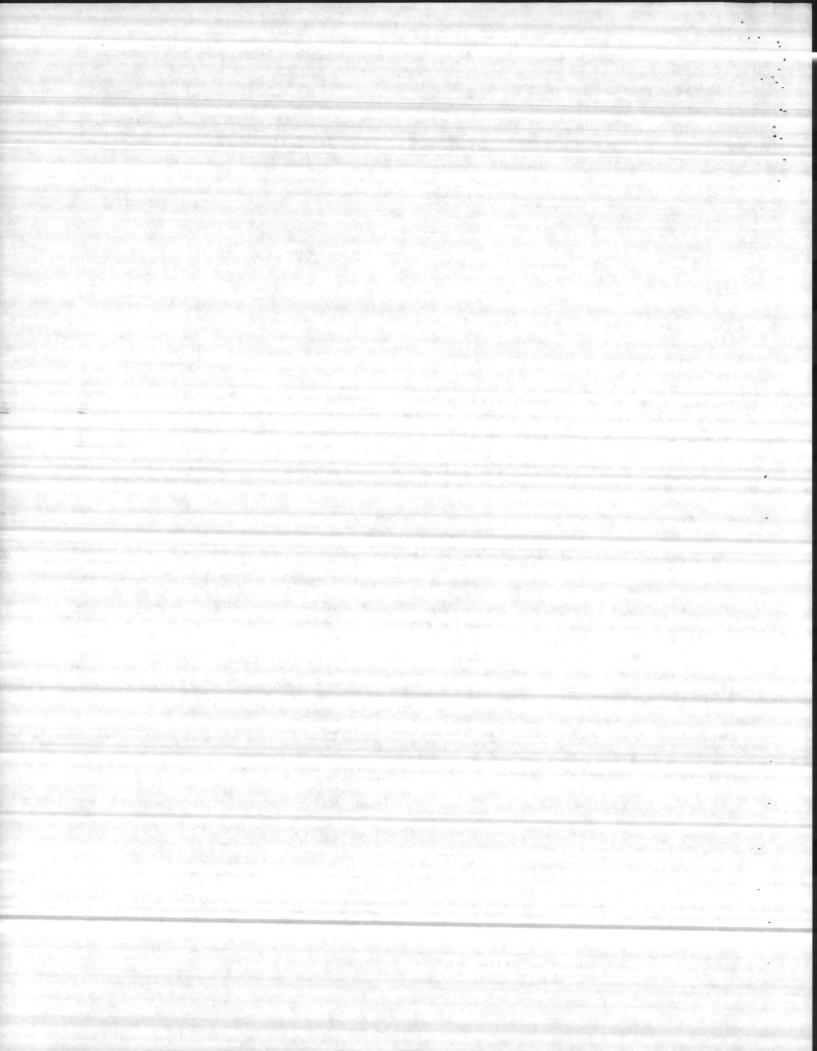
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 31 Date nest laid $6/27/86$ Time laid 0125 (estimate)
Site Description 2.0 miles north of Risley Pier
Turtle observed (Y) N Tags (Y) N
Distance from high tide: N/A Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length N/A in. (Straight) Carapace width N/A in.
Nest treatment: M = Marked only (W) = Wire cage (R) = Relocated H = Hatchery Time moved: 0125 N/A
Relocated where? 2.7 miles north of Risley Pier
Number of eggs: whole: 146 broken: 0 nest depth: 50 cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 8/22/86 (estimate?) Excavated by: G.E. Finley Date excavated: 8/25/86
Hatched eggs, from which hatchlings escaped from egg $H = 125$
Hatched, escaped from nest $HN = \frac{124}{1}$ Hatched, dead in nest $\frac{1}{0}$
Unhatched eggs UH = 21
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm $\frac{N/A}{}$ Eggs with embryo > 3 cm $\frac{N/A}{}$
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{84\%}{+UN}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh North Carolina 27611.



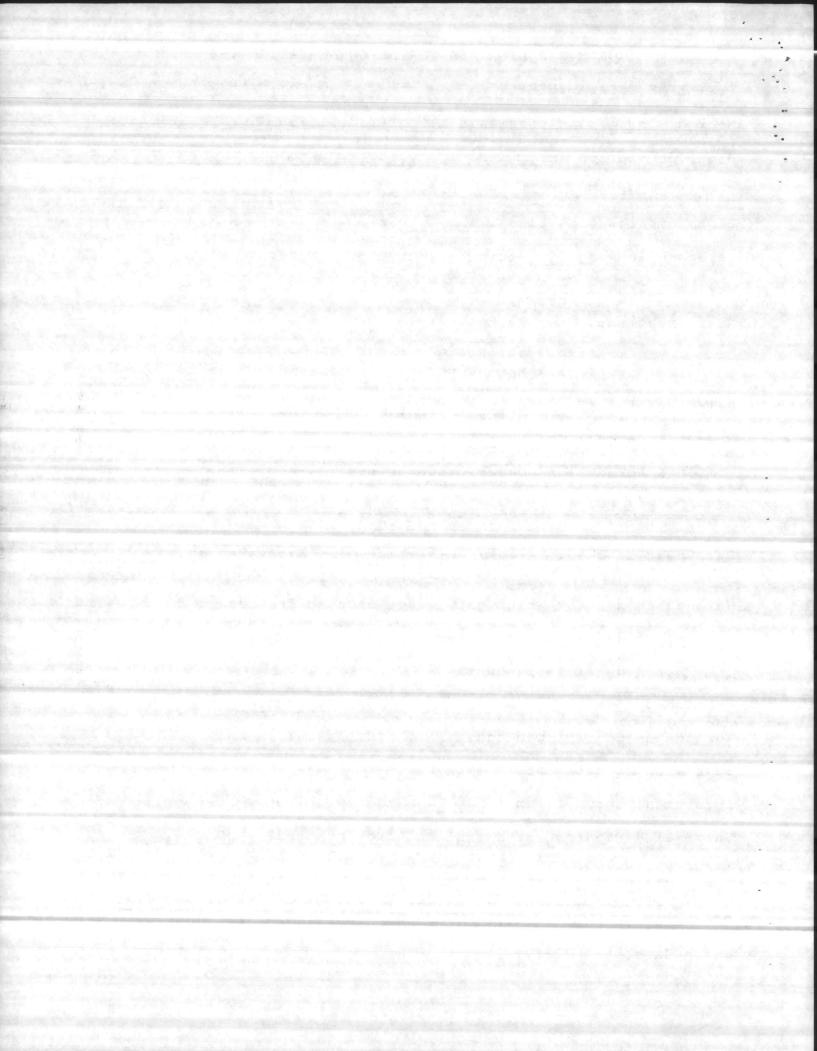
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 38 Date nest laid 6/28/86 Time laid 0900 (estimate)
Site Description 4.4 miles north of Risley Pier
Turtle observed Y N Tags Y N
Distance from high tide: N/A Ft.
Carapace length $\frac{N/A}{}$ in. (Curved) Carapace width $\frac{N/A}{}$ in.
Carapace length $\frac{N/A}{}$ in. (Straight) Carapace width $\frac{N/A}{}$ in.
Nest treatment: M = Marked only (W) = Wire cage (R) = Relocated H = Hatchery Time moved: 0900 N/A
Relocated where? 2.7 miles north of Risley Pier
Number of eggs: whole: 124 broken: 0 nest depth: N/A cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 8/22/86 (estimate?) Excavated by: G.E. Finley Date excavated: 8/25/86
Hatched eggs, from which hatchlings escaped from egg $H = 84$
Hatched, escaped from nest $HN = 84$ Hatched, dead in nest 0 Hatched, alive in nest 0
Unhatched eggs UH = 40
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm $\frac{N/A}{}$ Eggs with embryo > 3 cm $\frac{N/A}{}$
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{67}{4}\%$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh North Carolina 27611.



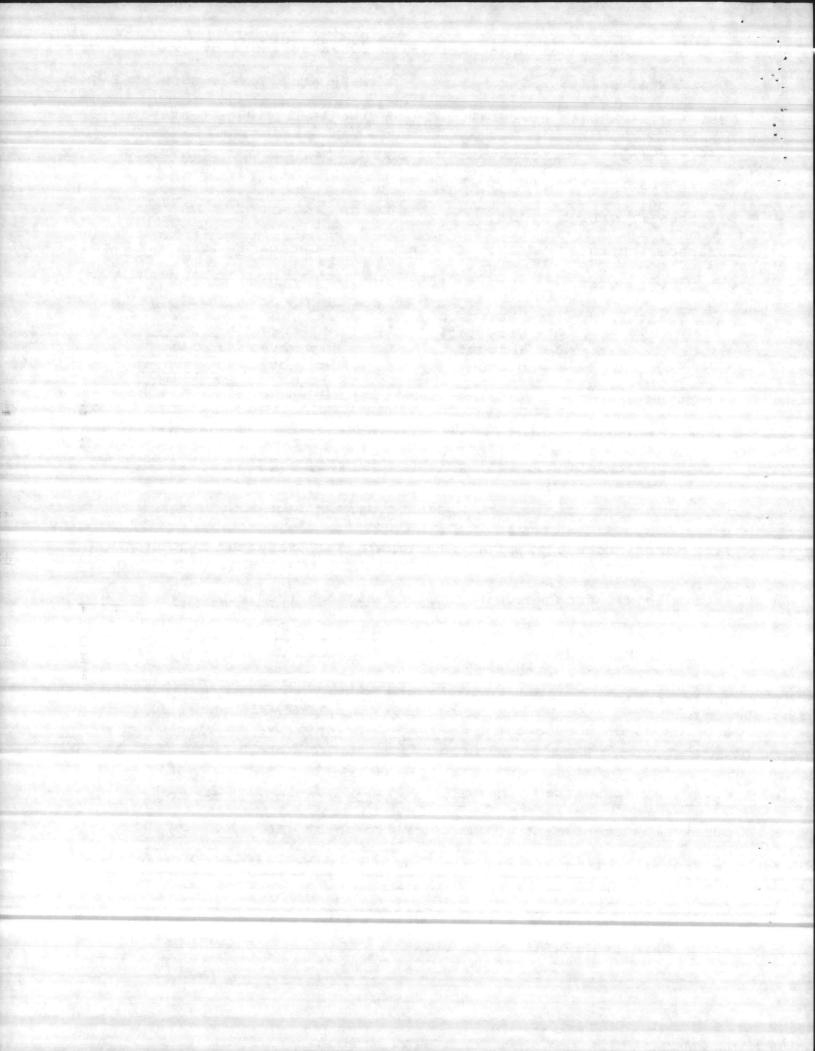
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 39 Date nest laid 6/28/86 Time laid 1000 (estimate)
Site Description 4.4 miles north of Risley Pier
Turtle observed Y N Tags Y N
Distance from high tide: N/A Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length N/A in. (Straight) Carapace width N/A in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: 1000 N/A
Relocated where? 2.7 miles north of Risley Pier
Number of eggs: whole: 126 broken: 0 nest depth: N/A cm
Comments (predation, description of turtle, etc) N/A HATCHING DATA
Date nest hatched: 8/22/86 (estimate?) Excavated by: G.E. FINLEY Date excavated: 8/25/86
Hatched eggs, from which hatchlings escaped from egg $H = 52$
Hatched, escaped from nest $HN = 52$ Hatched, dead in nest 0 Hatched, alive in nest 0
Unhatched eggs UH = 74
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo $<$ 3 cm N/A Eggs with embryo $>$ 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{\pi} = \frac{58}{3}\%$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not availab NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Ralei North Carolina 27611.



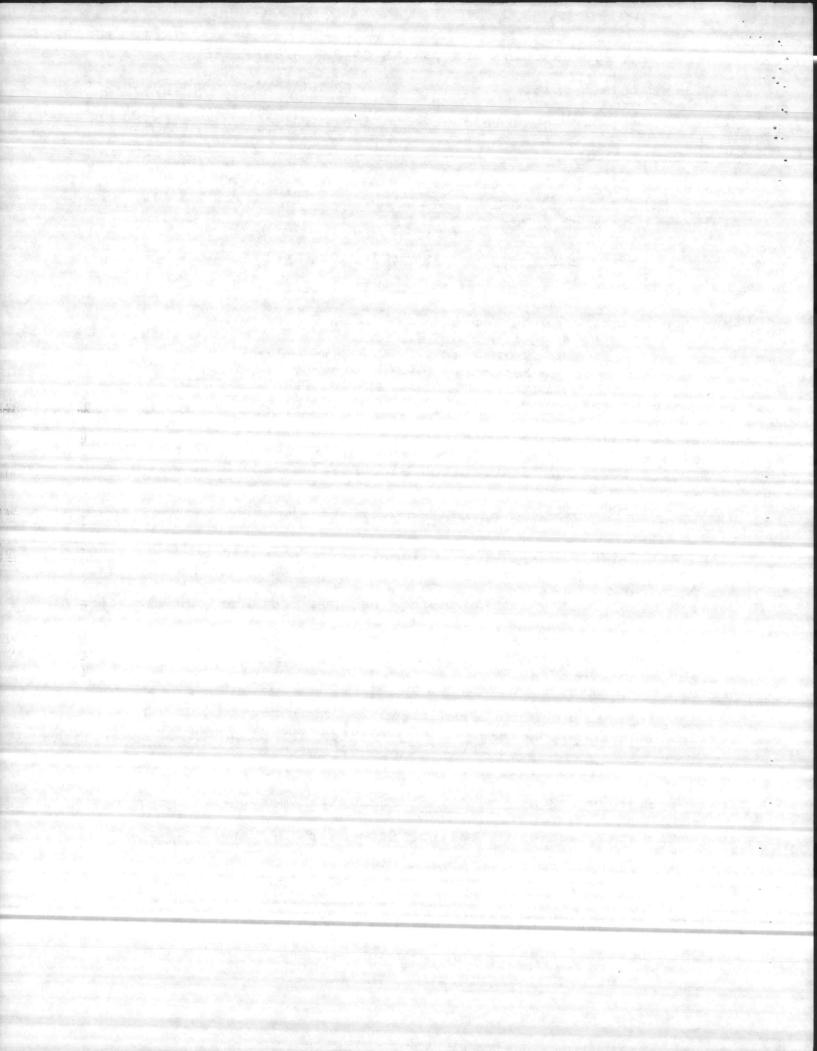
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 40 Date nest laid $6/28/86$ Time laid 2330 (estimate)
Site Description
Turtle observed N Tags ON
Distance from high tide: N/A Ft.
Carapace length 73 in. (Curved) Carapace width 93 in.
Carapace length 90 in. (Straight) Carapace width 98 in.
Nest treatment: $M = Marked only$
Relocated where?06 miles north of Risley Pier
Number of eggs: whole: 114 broken: 0 nest depth: 50 cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 8/20/86 (estimate?) Excavated by: W.G. BOSTIC Date excavated: 8/21/86
Hatched eggs, from which hatchlings escaped from egg $H = 109$
Hatched, escaped from nest $HN = 108$ Hatched, dead in nest 0 Hatched, alive in nest 1
Unhatched eggs UH = 5
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{94.7\%}{100}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh North Carolina 27611.



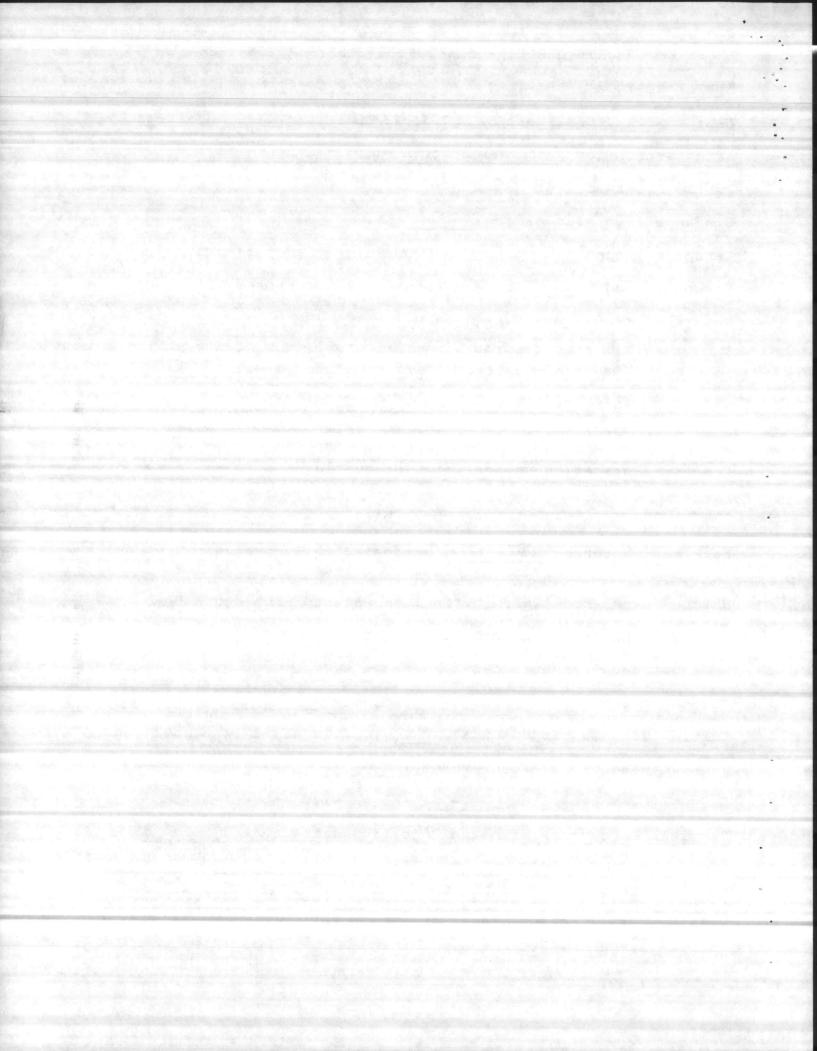
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 41 Date nest laid $6/29/86$ Time laid 0100 (estimate)
Site Description 2.5 miles north of Risley Pier
Turtle observed V N Tags V N
Distance from high tide: 15 Ft.
Carapace length 90 in. (Curved) Carapace width 70 in.
Carapace length 97 in. (Straight) Carapace width 80 in.
Nest treatment: M = Marked only W = Wire cage R = Relocated Time moved: 0100 H = Hatchery Time moved: N/A
Relocated where? 2.7 miles north of Risley Pier
Number of eggs: whole: 119 broken: 0 nest depth: 40 cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 9/01/86 (estimate?) Excavated by: G.E.FINLEY Date excavated: 9/02/86
Hatched eggs, from which hatchlings escaped from egg $H = 117$
Hatched, escaped from nest $HN = \frac{113}{0}$ Hatched, dead in nest $\frac{0}{4}$
Unhatched eggs UH = 2
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo $<$ 3 cm N/A Eggs with embryo $>$ 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{98.3\%}{100}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not availabl NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleig



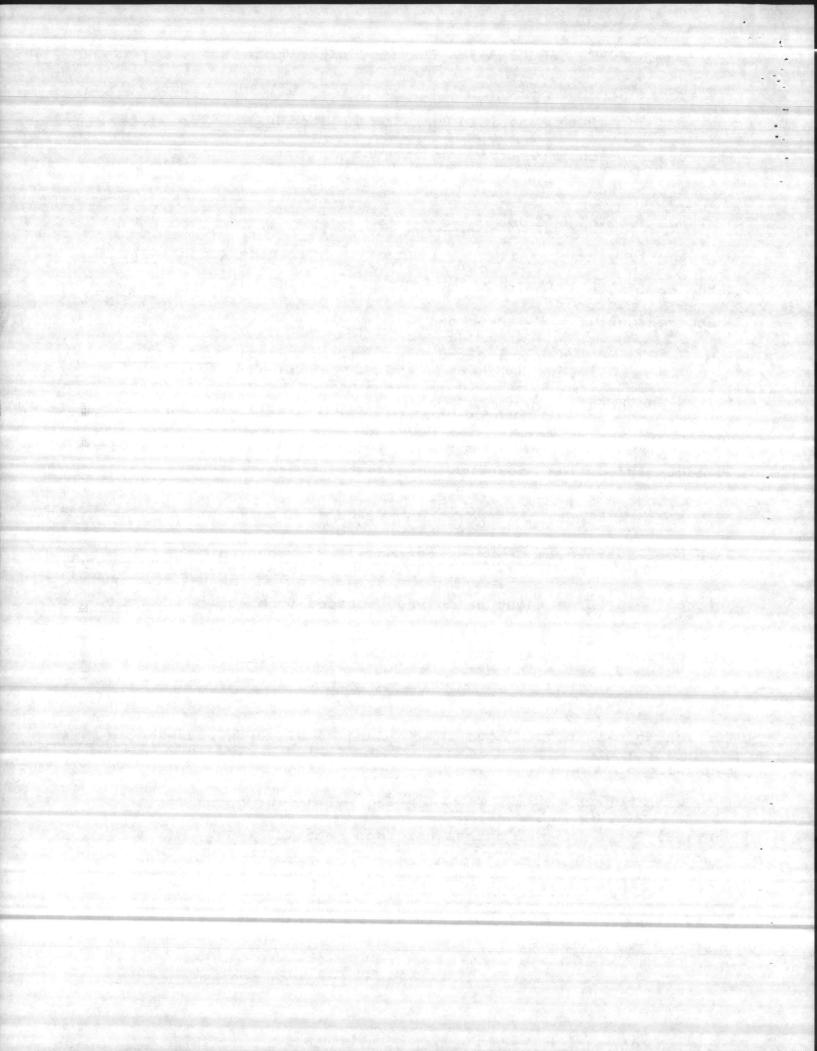
URTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
est # 42 Date nest laid $6/29/86$ Time laid 0330 (estimate)
ite Description 0.9 miles north of Risley Pier
urtle observed (Y) N Tags (Y) N
istance from high tide: N/A Ft.
arapace length 102 in. (Curved) Carapace width 90 in.
arapace length 98 in. (Straight) Carapace width 90 in.
est treatment: M = Marked only W = Wire cage R = Relocated Time moved: 0330 H = Hatchery Time moved: N/A
elocated where? 0.6 miles north of Risley Pier
umber of eggs: whole: 147 broken: 0 nest depth: 50 cm
HATCHING DATA ate nest hatched: 9/12/86 (estimate?) Excavated by: G. E. FINLE Date excavated: 9/12/86
atched eggs, from which hatchlings escaped from egg $H = 42$
Hatched, escaped from nest $HN = 42$ Hatched, dead in nest 0 Hatched, alive in nest 0
nhatched eggs UH = 105
urtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
ggs with no discernible embryo N/A
ggs with embryo $<$ 3 cm N/A Eggs with embryo $>$ 3 cm N/A
urvival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{28.5\%}{+ UN}$
comments (factors affecting hatching success, deformed hatchlings, N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Rales



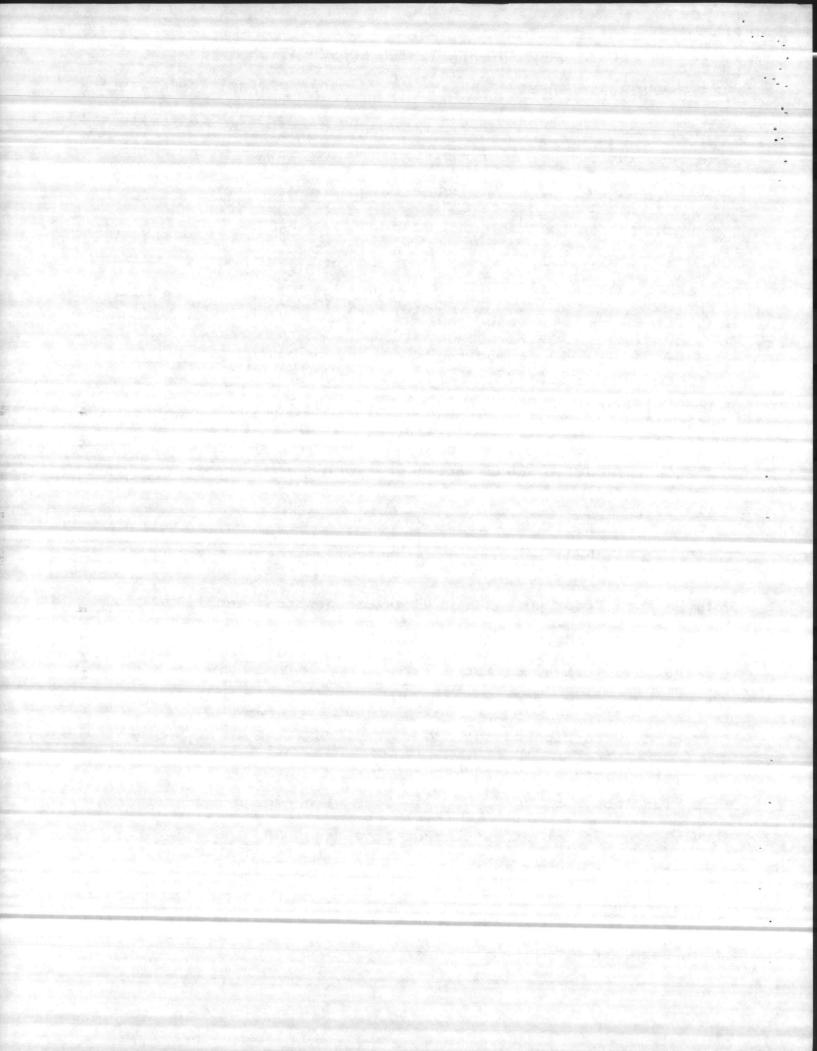
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 45 Date nest laid 7/03/86 Time laid 0330 (estimate)
Site Description 2.2 miles north of Risley Pier
Turtle observed (Y) N Tags (Y) N
Distance from high tide: 75 Ft.
Carapace length 104 in. (Curved) Carapace width 87 in.
Carapace length 100 in. (Straight) Carapace width 77 in.
Nest treatment: $M = Marked only$ $W = Wire cage$ $R = Relocated$ $H = Hatchery$ Time moved: N/A N/A
Relocated where?06 miles north of Risley Pier
Number of eggs: whole: 123 broken: 0 nest depth: 44 cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 8/25/86 (estimate?) Excavated by: G. E. FINLEY Date excavated: 8/27/86
Hatched eggs, from which hatchlings escaped from egg $H = 115$
Hatched, escaped from nest $HN = \frac{113}{0}$ Hatched, dead in nest $\frac{0}{2}$
Unhatched eggs UH = 8
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{93.5\%}{+UN}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh North Carolina 27611.



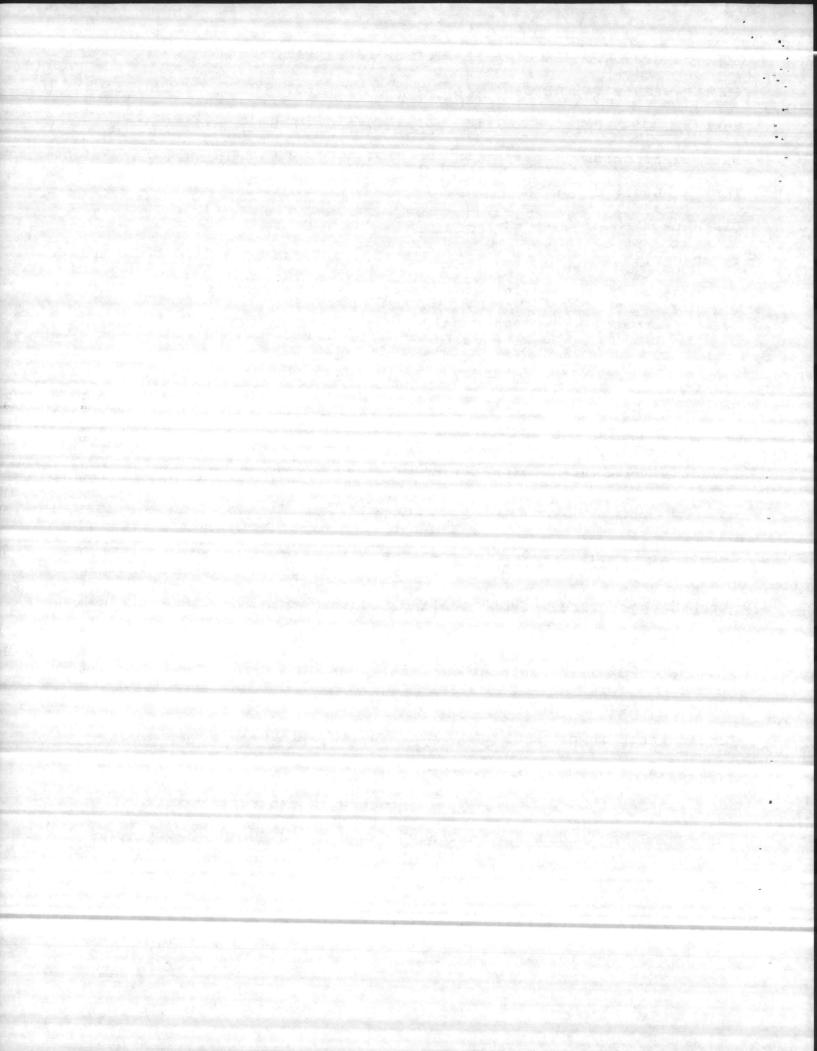
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 50 Date nest laid 7/04/86 Time laid 0200 (estimate)
Site Description 1.4 miles south of Risley Pier
Turtle observed (Y) N Tags (Y) N
Distance from high tide: 120 Ft.
Carapace length N/A in. (Curved) Carapace width 96 in.
Carapace length N/A in. (Straight) Carapace width 86 in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: 0230 N/A
Relocated where?06 miles north of Risley Pier
Number of eggs: whole: 105 broken: 0 nest depth: 44 cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 8/25/86 (estimate?) Excavated by: G. E. FINLEY Date excavated: 8/27/86
Hatched eggs, from which hatchlings escaped from egg $H = 100$
Hatched, escaped from nest $HN = 100$ Hatched, dead in nest 0 Hatched, alive in nest 0
Unhatched eggs UH = 5
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{95}{V}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh, North Carolina 27611.



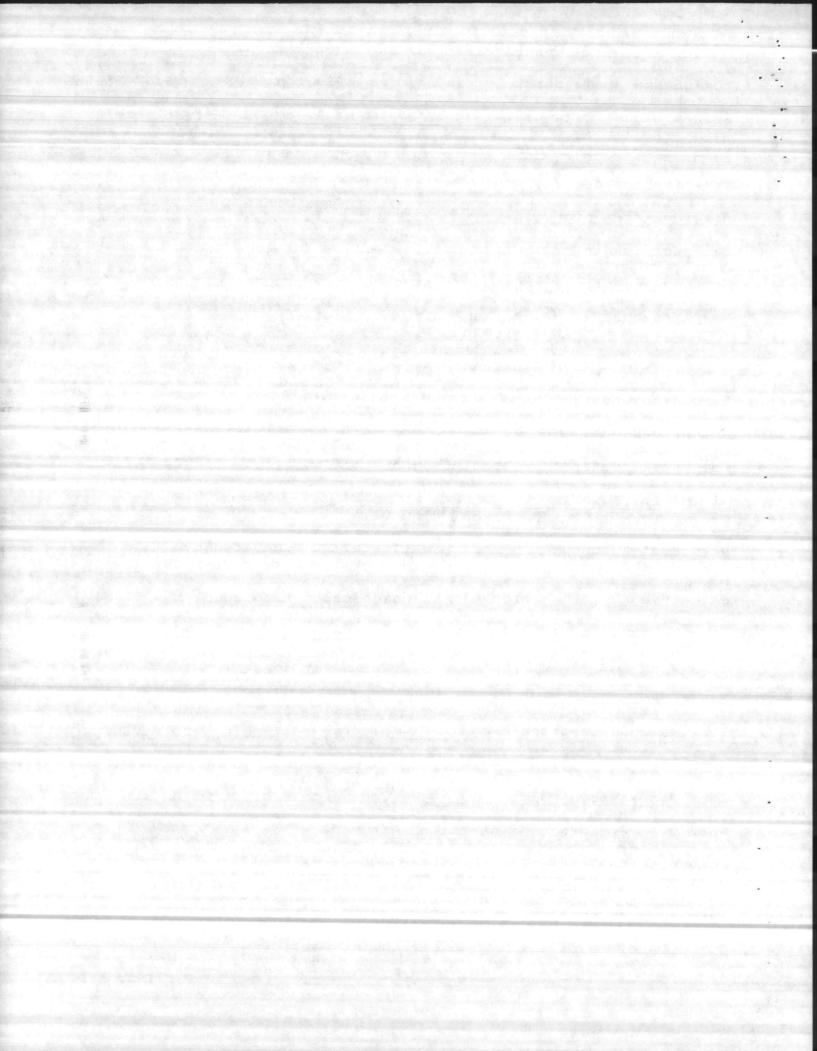
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 55 Date nest laid 7/06/86 Time laid 0330 (estimate)
Site Description 3.1 miles north of Risley Pier
Turtle observed ② N Tags ② N
Distance from high tide: N/A Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length N/A in. (Straight) Carapace width N/A in.
Nest treatment: M = Marked only W = Wire cage R = Relocated
Relocated where? 2.7 miles north of Risley Pier
Number of eggs: whole: 168 broken: 0 nest depth: 60 cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 9/01/86 (estimate?) Excavated by: G.E. FINLEY Date excavated: 9/02/86
Hatched eggs, from which hatchlings escaped from egg $H = 157$
Hatched, escaped from nest $HN = 145$ Hatched, dead in nest 1 Hatched, alive in nest 11
Unhatched eggs UH = 11
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{92.8 \%}{+ UN}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available



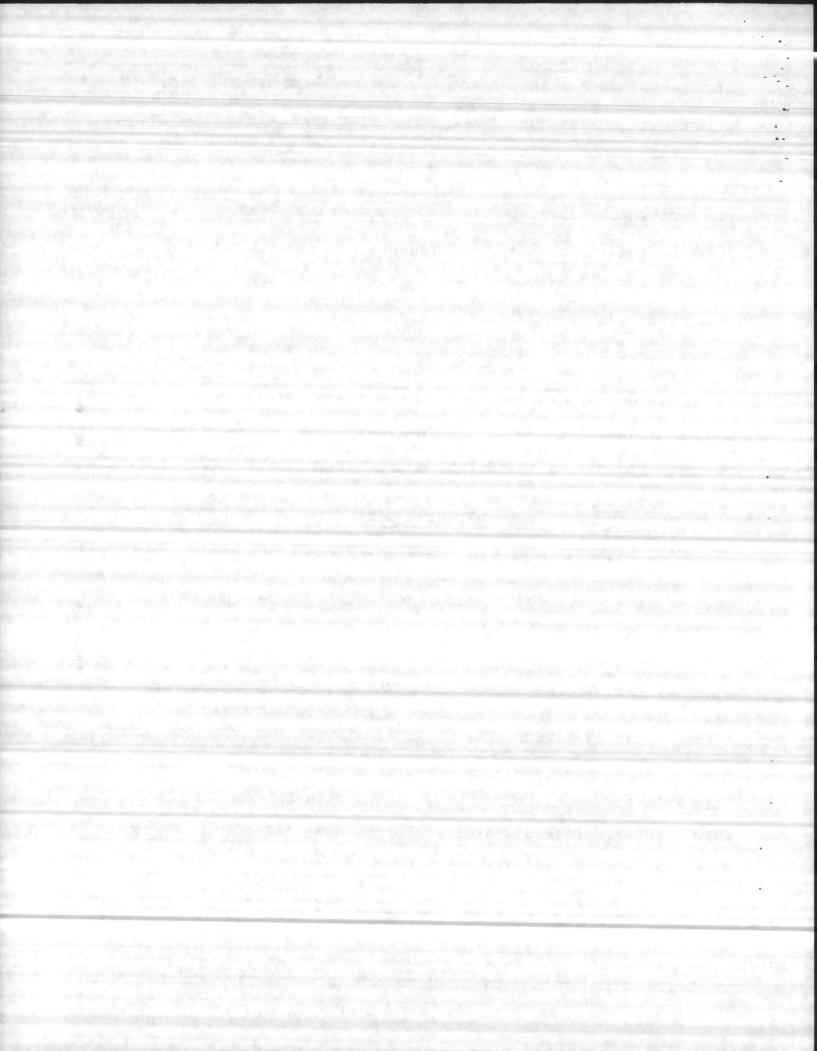
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 59 Date nest laid 7/07/86 Time laid 0100 (estimate)
Site Description Near south end, low dunes 2.6 miles south of Risley Pie
Turtle observed (Y) N Tags (Y) N
Distance from high tide: 12 Ft.
Carapace length 96 in. (Curved) Carapace width 84 in.
Carapace length $\frac{N/A}{}$ in. (Straight) Carapace width $\frac{N/A}{}$ in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: 0200 N/A
Relocated where? 0.2 miles north of Risley Pier
Number of eggs: whole: 153 broken: 0 nest depth: 56 cm
Comments (predation, description of turtle, etc) N/A
Date nest hatched: 9/06/86 (estimate?) Excavated by: G.E. FINLEY Date excavated: 9/08/86
Hatched eggs, from which hatchlings escaped from egg $H = 146$
Hatched, escaped from nest $HN = \frac{145}{1}$. Hatched, dead in nest $\frac{1}{0}$
Unhatched eggs UH =7
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{95.4}{VN}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh,



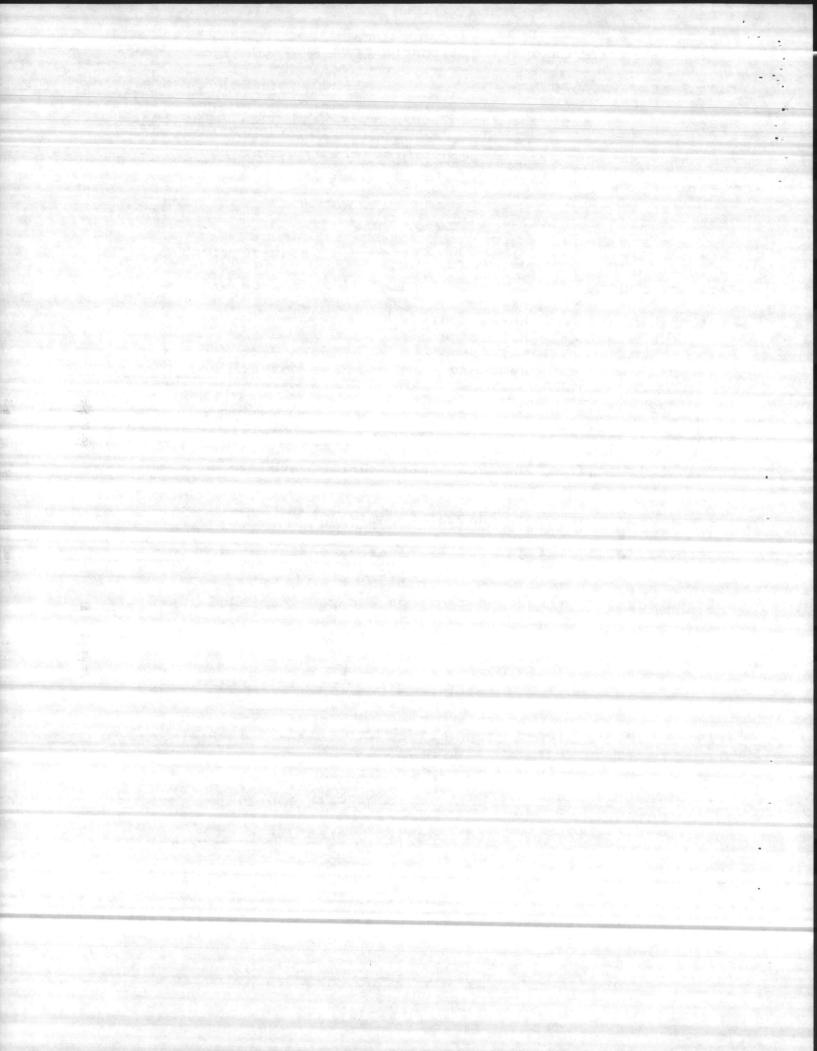
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 60 Date nest laid 7/07/86 Time laid 2400 (estimate)
Site Description Between North Tower and Browns Inlet 3.2 miles north o
Turtle observed Y N Tags Y N
Distance from high tide: 3 Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length $\frac{N/A}{}$ in. (Straight) Carapace width $\frac{N/A}{}$ in.
Nest treatment: M = Marked only W = Wire cage R = Relocated Time moved: 0615 H = Hatchery Time moved: N/A
Relocated where? 2.7 miles north of Risley Pier
Number of eggs: whole: 133 broken: 2 nest depth: N/A cm
Comments (predation, description of turtle, etc) 1 egg broken in nest
l egg being eaten by ghost crab as nest was approached at 0615 this date
Date nest hatched: 9/01/86 (estimate?) Excavated by: G.E. FINLEY Date excavated: 9/02/86
Hatched eggs, from which hatchlings escaped from egg $H = 108$
Hatched, escaped from nest $HN = 106$ Hatched, dead in nest 2 Hatched, alive in nest 0
Unhatched eggs UH = 25
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm $\frac{N/A}{}$ Eggs with embryo > 3 cm $\frac{N/A}{}$
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{79.6}{4}\%$
Comments (factors affecting hatching success, deformed hatchlings, etc)
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh



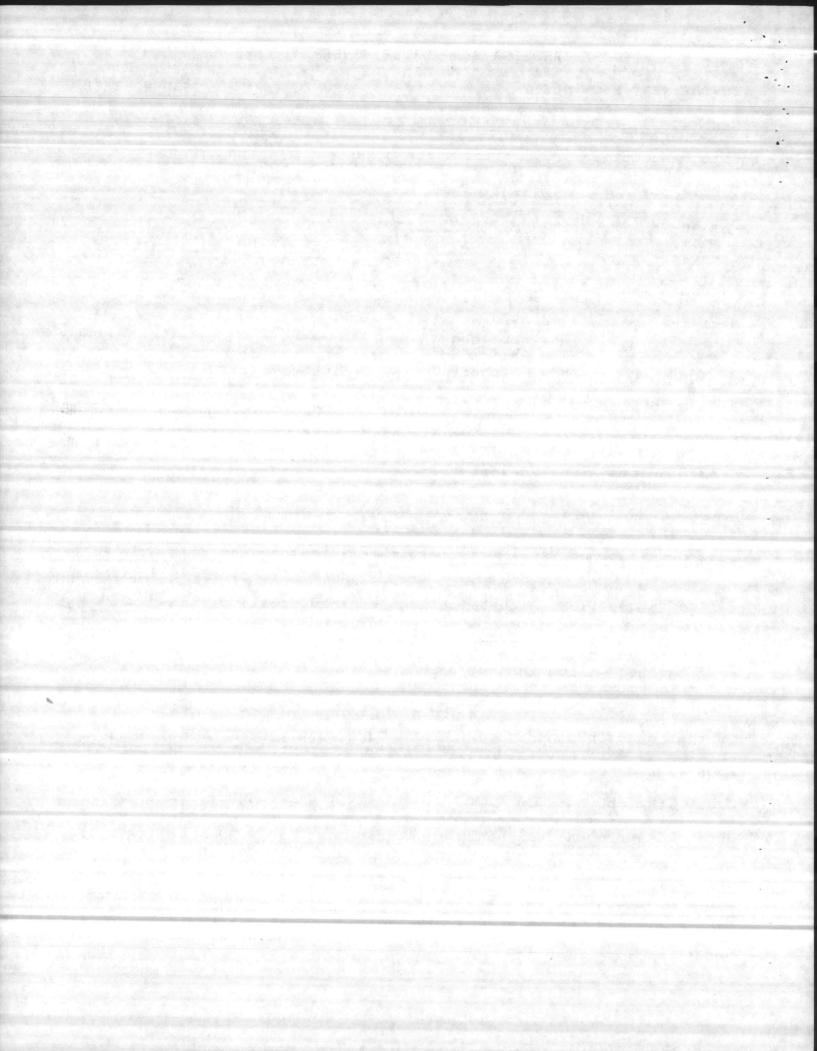
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 62 Date nest laid 7/08/86 Time laid 2400 (estimate)
Site Description 2.4 miles south of Risley Pier
Turtle observed (Y) N Tags (Y) N
Distance from high tide: 12 Ft.
Carapace length 100 in. (Curved) Carapace width 92 in.
Carapace length $\frac{N/A}{}$ in. (Straight) Carapace width $\frac{N/A}{}$ in.
Nest treatment: M = Marked only (W) = Wire cage (R) = Relocated
Relocated where? 0.2 miles north of Risley Pier
Number of eggs: whole: 152 broken: 0 nest depth: 47 cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 9/06/86 (estimate?) Excavated by: G.E. FINLEY Date excavated: 9/08/86
Hatched eggs, from which hatchlings escaped from egg $H = 132$
Hatched, escaped from nest $HN = \frac{130}{1}$ Hatched, dead in nest $\frac{1}{1}$
Unhatched eggs UH = 20
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{86.4\%}{LIN}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available



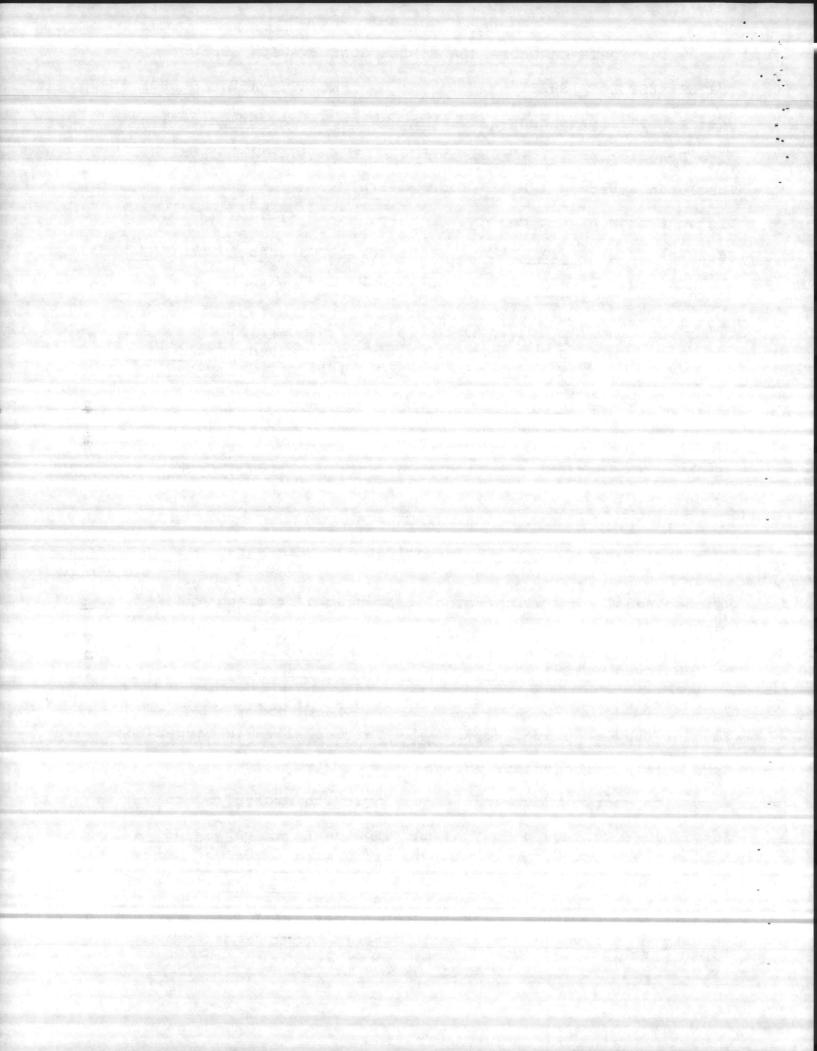
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 68 Date nest laid $7/10/86$ Time laid 0330 (estimate)
Site Description
Turtle observed (Y) N Tags (Y) N
Distance from high tide: 8 Ft.
Carapace length 95 in. (Curved) Carapace width 89 in.
Carapace length $\frac{N/A}{}$ in. (Straight) Carapace width $\frac{N/A}{}$ in.
Nest treatment: $M = Marked only$
Relocated where? N/A
Number of eggs: whole: 101 broken: 0 nest depth: 53 cm
Date nest hatched: 9/09/86 (estimate?) Excavated by: G.E. FINLEY
Date excavated: 9/10/86
Hatched eggs, from which hatchlings escaped from egg $H = 71$
Hatched, escaped from nest $HN = 67$ Hatched, dead in nest 0 Hatched, alive in nest 4
Unhatched eggs UH = 30
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{70 \%}{L}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh



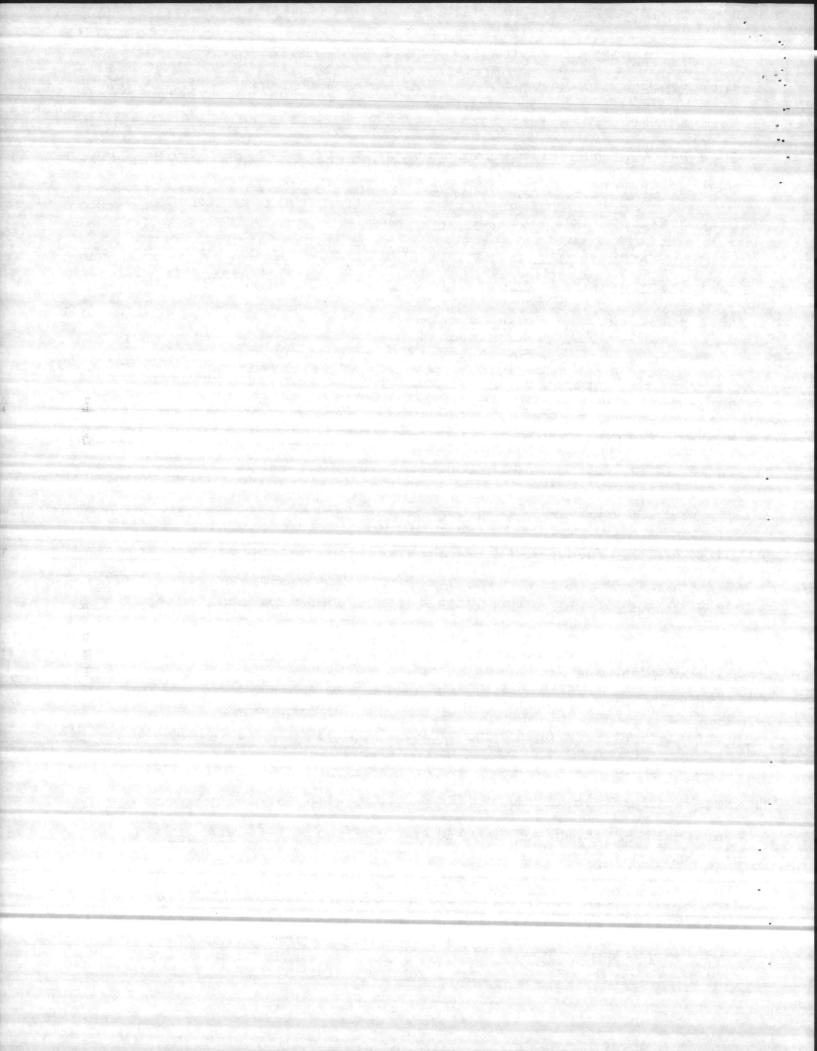
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # $\frac{77}{2}$ Date nest laid $\frac{7/15/86}{1}$ Time laid $\frac{0130}{2}$ (estimate)
Site Description 0.2 miles north of Risley Pier
Turtle observed (Y) N Tags (Y) N
Distance from high tide: 36 Ft.
Carapace length 90 in. (Curved) Carapace width 86 in.
Carapace length 82 in. (Straight) Carapace width 67 in.
Nest treatment: $M = Marked only$
Relocated where? Same distance, 0.2 north of Risley Pier, but 8-10 ft.
Number of eggs: whole: 84 broken: 0 nest depth: 45 cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 9/15/86 (estimate?) Excavated by: G.E. FINLEY Date excavated: 9/16/86
Hatched eggs, from which hatchlings escaped from egg $H = 60$
Hatched, escaped from nest $HN = 60$ Hatched, dead in nest 0 Hatched, alive in nest 0
Unhatched eggs UH = 24
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{71.4\%}{100}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh



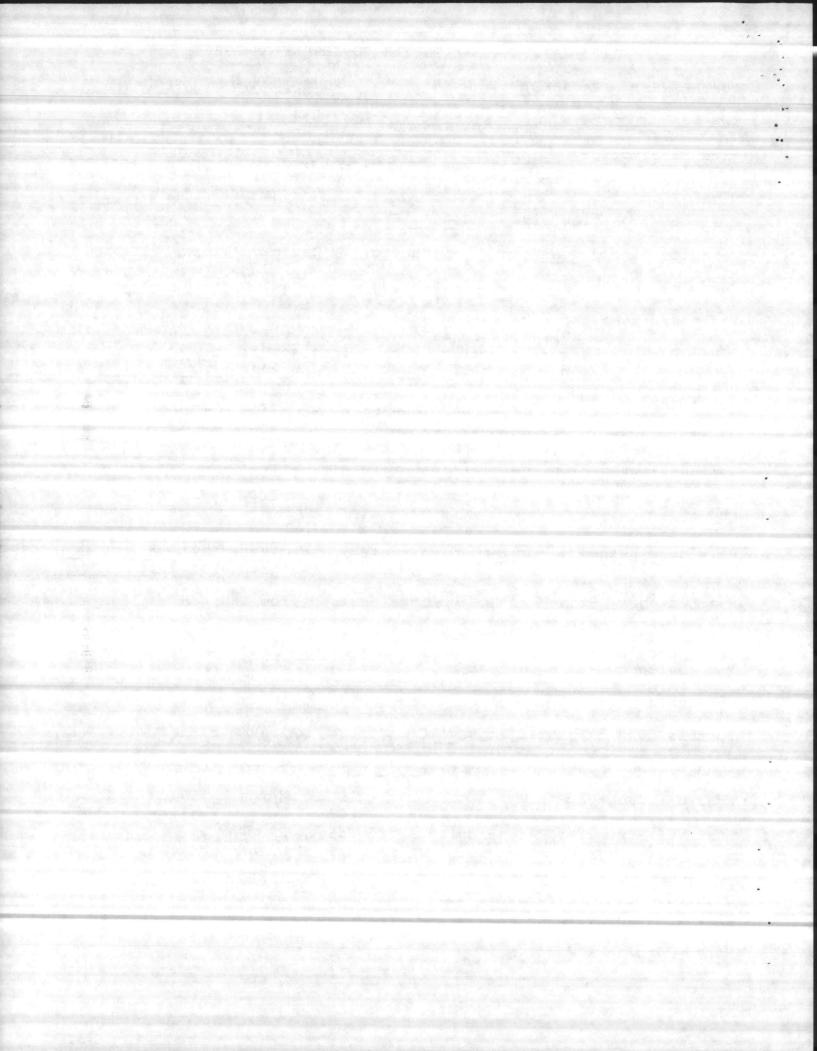
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 79 Date nest laid 7/15/86 Time laid 0400 (estimate)
Site Description 3.3 miles north of Risley Pier, 20 yds. north of North Tower behind 1st row of dunes. Turtle observed Y N Tags Y N
Distance from high tide: 15 Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length N/A in. (Straight) Carapace width N/A in.
Nest treatment: $M = Marked only$
Relocated where? 3.2 miles north of Risley Pier
Number of eggs: whole: 81 broken: 38 nest depth: 42 cm
Comments (predation, description of turtle, etc) Broken eggs due to
predation.
HATCHING DATA
Date nest hatched: 9/27/86 (estimate?) Excavated by: G.E. FINLEY Date excavated: 9/30/86
Hatched eggs, from which hatchlings escaped from egg $H = 61$
Hatched, escaped from nest $HN = 61$ Hatched, dead in nest 0 Hatched, alive in nest 0
Unhatched eggs UH = 20
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{75.3\%}{100}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh North Carolina 27611.



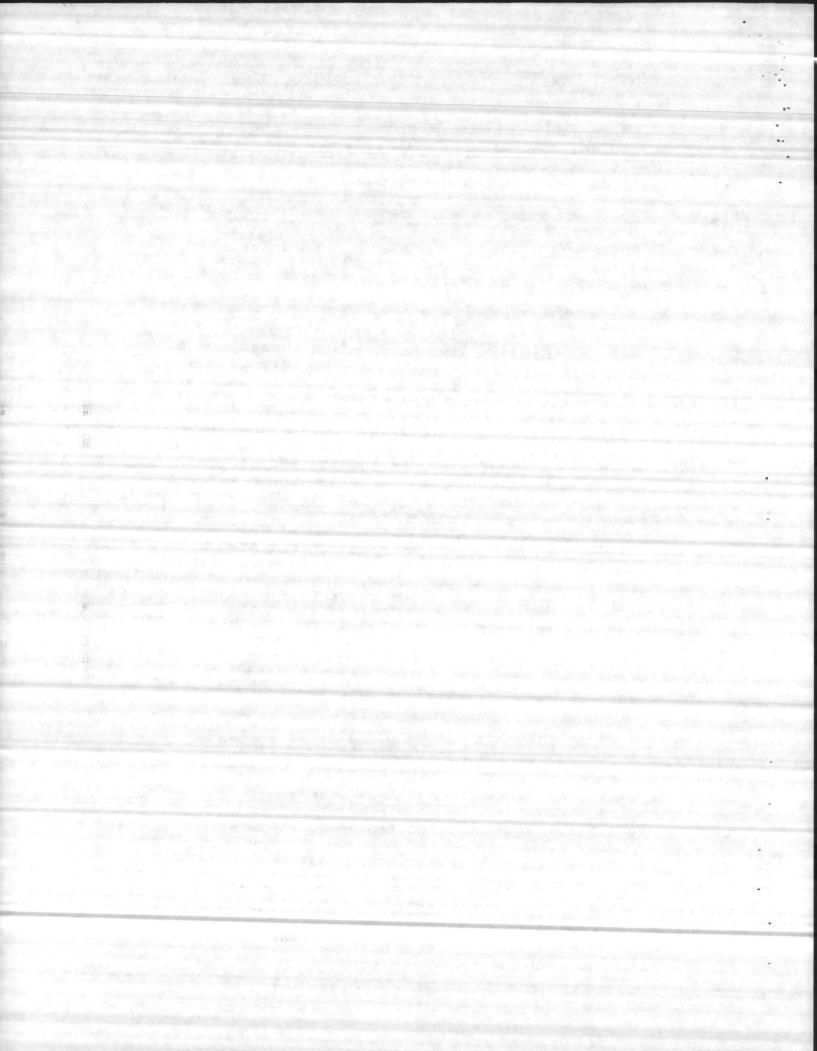
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 81 Date nest laid 7/16/86 Time laid 0300 (estimate)
Site Description 3.4 miles north of Risley Pier on face of dunes
Turtle observed YN Tags YN
Distance from high tide:20 Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length N/A in. (Straight) Carapace width N/A in.
Nest treatment: $M = Marked only$
Relocated where? 3.2 miles north of Risley Pier
Number of eggs: whole: 134 broken: 0 nest depth: 39 cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 9/15/86 (estimate?) Excavated by: G.E. FINLEY Date excavated: 9/16/86
Hatched eggs, from which hatchlings escaped from egg $H = 82$
Hatched, escaped from nest $HN = 81$ Hatched, dead in nest 0 Hatched, alive in nest 1
Unhatched eggs UH = 52
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{61.2\%}{L}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh North Carolina 27611.



TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 83 Date nest laid 7/17/86Time laid 0130 (estimate)
Site Description 1.4 miles south of Risley Pier
Turtle observed (Y) N Tags (Y) N
Distance from high tide: 90 Ft.
Carapace length 106 in. (Curved) Carapace width 102 in.
Carapace length 106 in. (Straight) Carapace width. 74 in.
Nest treatment: M = Marked only W = Wire cage R = Relocated Time moved: 0200 H = Hatchery Time moved: N/A
Relocated where? 2.1 miles north of Risley Pier
Number of eggs: whole: 123 broken: 0 nest depth: 45 cm
Comments (predation, description of turtle, etc) N/A HATCHING DATA
Date nest hatched: 9/27/86 (estimate?) Excavated by: G F FINLEY Date excavated: 9/30/86
Hatched eggs, from which hatchlings escaped from egg $H = 33$
Hatched, escaped from nest $HN = 30$ Hatched, dead in nest 0 Hatched, alive in nest 3
Unhatched eggs $UH = 90$
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{26.8\%}{LIN}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not availab. NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleic



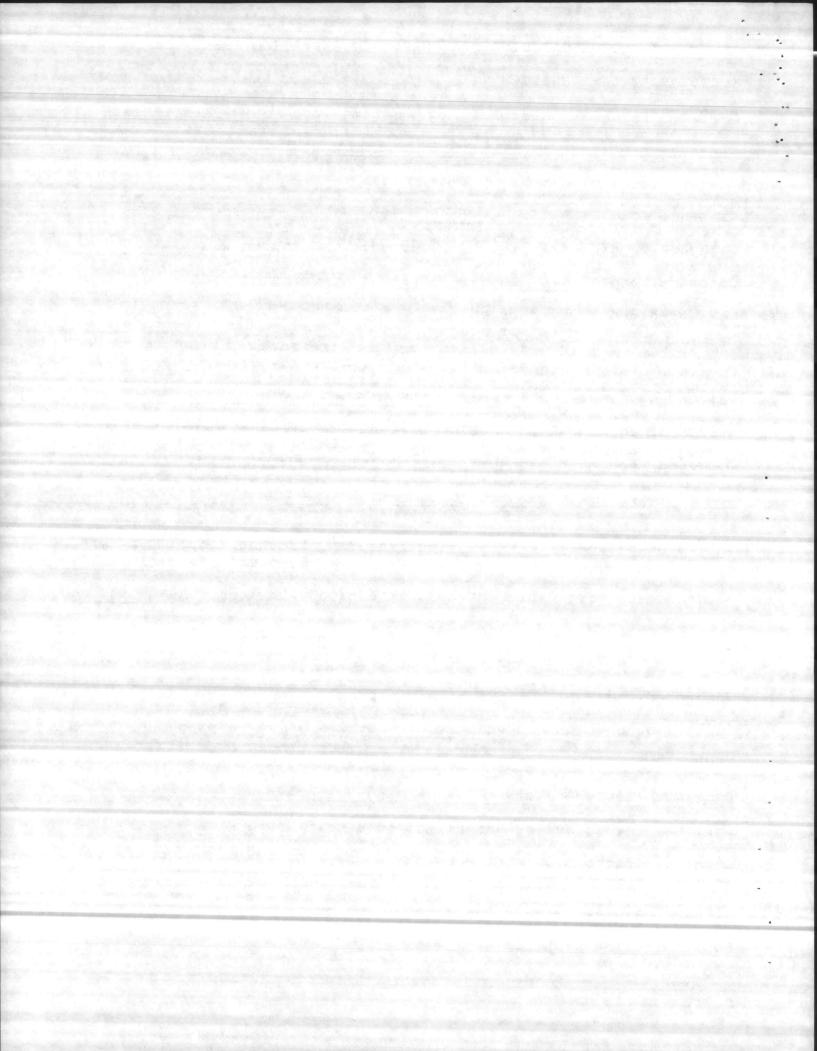
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 84 Date nest laid 7/17/86 Time laid 0145 (estimate)
Site Description 0.4 miles south of Risley Pier
Turtle observed (Y) N Tags (Y) N
Distance from high tide: 45 Ft.
Carapace length 92 in. (Curved) Carapace width 87 in.
Carapace length N/A in. (Straight) Carapace width N/A in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: 0300 N/A
Relocated where?
Number of eggs: whole: 106 broken: 0 nest depth: 35 cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 9/20/86 (estimate?) Excavated by: G.E. FINLEY Date excavated: 9/22/86
Hatched eggs, from which hatchlings escaped from egg $H = 94$
Hatched, escaped from nest $HN = \frac{94}{0}$ Hatched, dead in nest 0 Hatched, alive in nest 0
Unhatched eggs UH = 12
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{88.7\%}{L}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh North Carolina, 27611



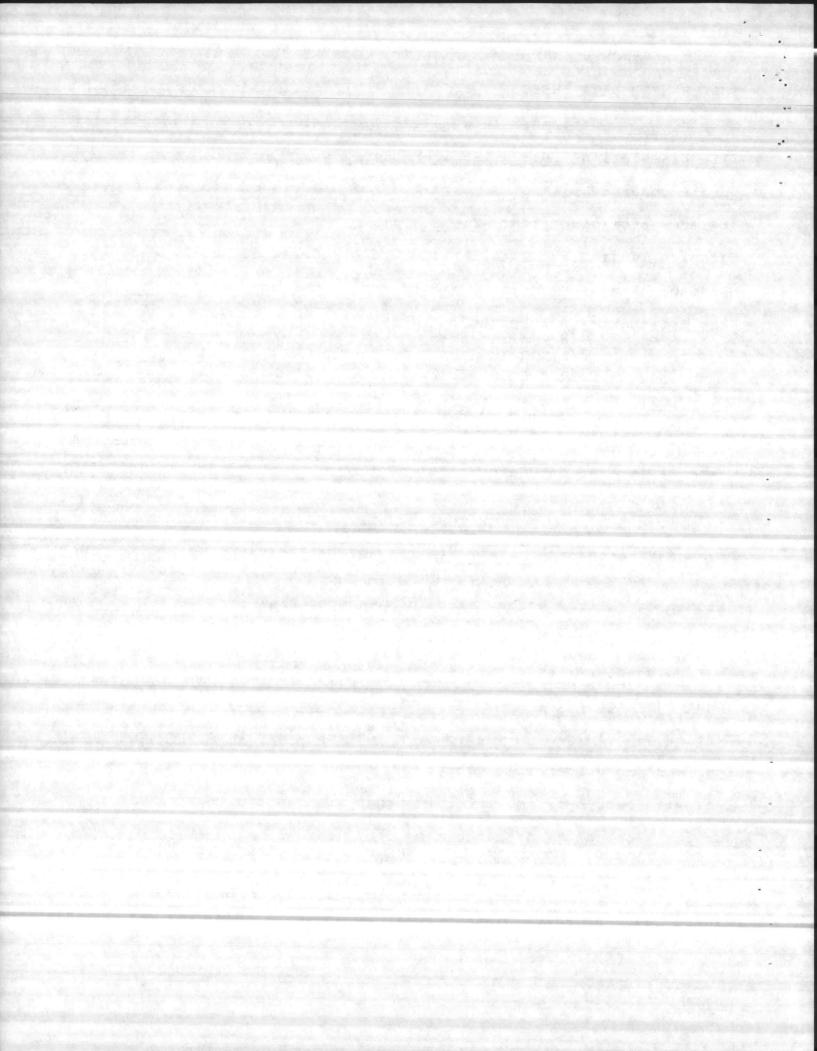
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 85 Date nest laid 7/18/86 Time laid 0330 (estimate)
Site Description 3.5 miles north of Risley Pier, 20 ft. below face of
Turtle observed Y N Tags Y N
Distance from high tide: 15 Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length N/A in. (Straight) Carapace width N/A in.
Nest treatment: $M = Marked only$ $W = Wire cage$ $R = Relocated$ $R = Hatchery$ Time moved: $R = Marked only$ $R = Marked only$ $R = Marked only$ Time moved: $R = Marked only$
Relocated where?3.1 miles north of Risley Pier
Number of eggs: whole: 133 broken: 0 nest depth: 40 cm
Comments (predation, description of turtle, etc) N/A
Date nest hatched: 9/27/86 (estimate?) Excavated by: G.E. FINLEY Date excavated: 9/30/86
Hatched eggs, from which hatchlings escaped from egg $H = 113$
Hatched, escaped from nest $HN = \frac{111}{0}$ Hatched, dead in nest $\frac{0}{2}$
Unhatched eggs UH = 20
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{84.9\%}{100}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh North Carolina 27611.

TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 94 Date nest laid 7/25/86 Time laid 0615 (estimate)
Site Description 3.5 miles north of Risley Pier
Turtle observed YN Tags YN
Distance from high tide: 14 Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length $\frac{N/A}{}$ in. (Straight) Carapace width $\frac{N/A}{}$ in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: 0630 N/A
Relocated where? 3.2 miles north of Risley Pier
Number of eggs: whole: 89 broken: 0 nest depth: 48 cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 10/01/86 (estimate?) Excavated by: G.E. FINLEY Date excavated: 10/17/86
Hatched eggs, from which hatchlings escaped from egg $H = \underline{59}$
Hatched, escaped from nest $HN = 59$ Hatched, dead in nest 0 Hatched, alive in nest 0
Unhatched eggs UH = 30
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{66.3\%}{LIN}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A

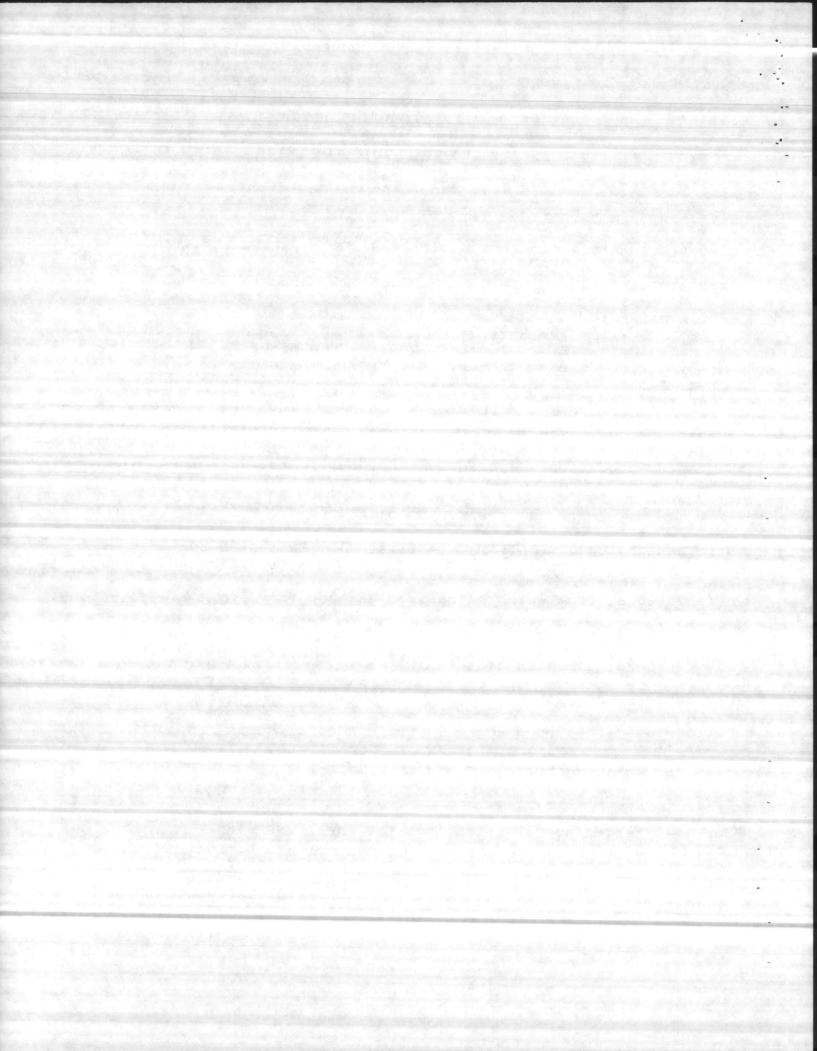
Nest # 103 Date nest laid 7/27/86 Time laid 0100 (estimate)
Site Description 3.5 miles north of Risley Pier
Turtle observed YN Tags YN
Distance from high tide: 25 Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length N/A in. (Straight) Carapace width N/A in.
Nest treatment: $M = Marked only$ $\widehat{W} = Wire cage$ $\widehat{R} = Relocated$ $H = Hatchery$ Time moved: 0645 N/A
Relocated where?27 miles north of Risley Pier
Number of eggs: whole: 104 broken: 0 nest depth: 50 cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 10/13/86 (estimate?) Excavated by: G.E. FINLEY
Date excavated: 10/17/86
Date excavated: $10/17/86$ Hatched eggs, from which hatchlings escaped from egg H = 94
Date excavated: 10/17/86
Hatched eggs, from which hatchlings escaped from egg $H = 94$ Hatched, escaped from nest $HN = 93$ Hatched, dead in nest 0
Hatched eggs, from which hatchlings escaped from egg $H = 94$ Hatched, escaped from nest $HN = 93$ Hatched, dead in nest HA Hatched, alive in nest HA
Hatched eggs, from which hatchlings escaped from egg $H = 94$ Hatched, escaped from nest $HN = 93$ Hatched, dead in nest HA Hatched, alive in nest HA Unhatched eggs HA Unhatched eggs HA Hatched: HA HA HA HA HA HA HA HA
Hatched eggs, from which hatchlings escaped from egg $H = 94$ Hatched, escaped from nest $HN = 93$ Hatched, dead in nest 0 Hatched, alive in nest 1 Unhatched eggs $UH = 10$ Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Hatched eggs, from which hatchlings escaped from egg H = $\frac{94}{}$ Hatched, escaped from nest HN = $\frac{93}{}$ Hatched, dead in nest Hatched, alive in nest Hatched eggs UH = $\frac{10}{}$ Turtles dead in pipped eggs $\frac{N/A}{}$ Turtles alive in pipped eggs $\frac{N/A}{}$
Hatched eggs, from which hatchlings escaped from egg $H = 94$ Hatched, escaped from nest $HN = 93$ Hatched, dead in nest $HA = 10$ Unhatched eggs $HA = 10$ Turtles dead in pipped eggs $HA = 10$ Eggs with no discernible embryo $HA = 10$ Eggs with embryo $HA = 10$ Survival Percentage of hatchlings from nest $HA = 10$



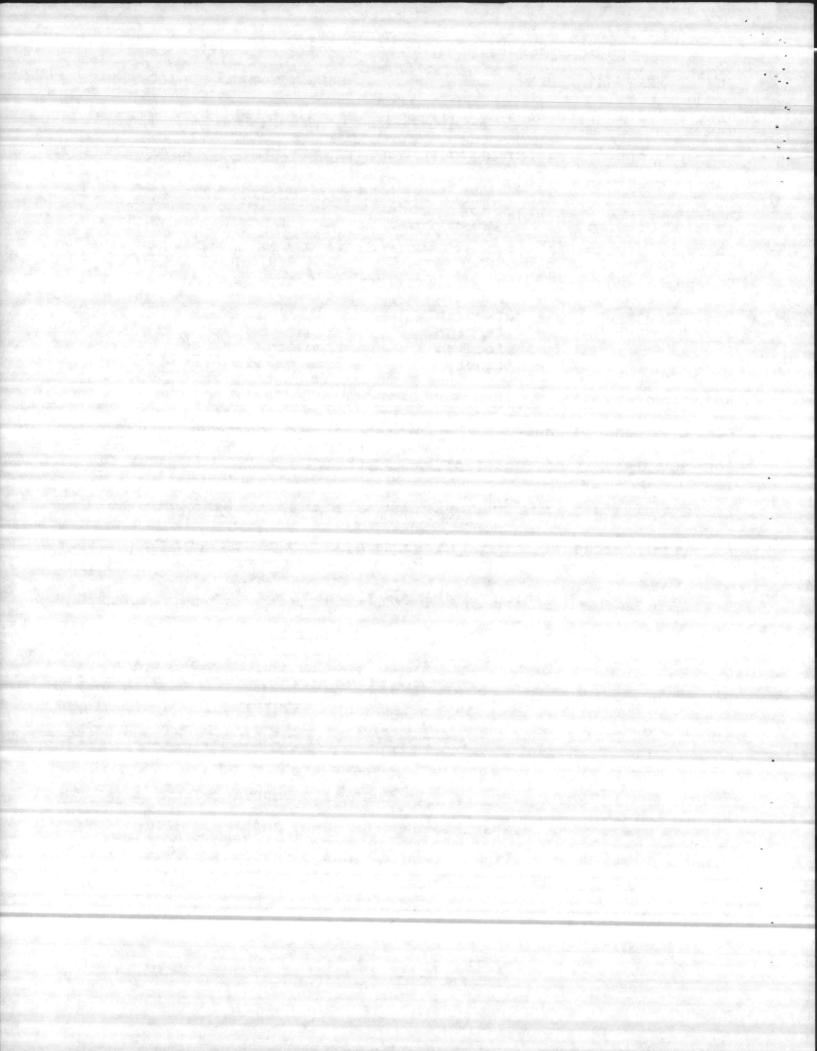
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 104 Date nest laid 7/28/86 Time laid 0050 (estimate)
Site Description 0.8 miles south of Risley Pier
Turtle observed Y N Tags Y N
Distance from high tide: 25 Ft.
Carapace length 98 in. (Curved) Carapace width 93 in.
Carapace length 83 in. (Straight) Carapace width 79 in.
Nest treatment: $M = Marked only$
Relocated where? 0.6 miles north of Risley Pier
Number of eggs: whole: 115 broken: 0 nest depth: 55 cm
Comments (predation, description of turtle, etc) Turtle laid facing
water.
Date nest hatched: 10/13/86 (estimate?) Excavated by: G.E. FINLEY Date excavated: 10/17/86
Hatched eggs, from which hatchlings escaped from egg $H = 115$
Hatched, escaped from nest $HN = 115$ Hatched, dead in nest 0 Hatched, alive in nest 0
Unhatched eggs UH = 0
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{100.5}{V}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A



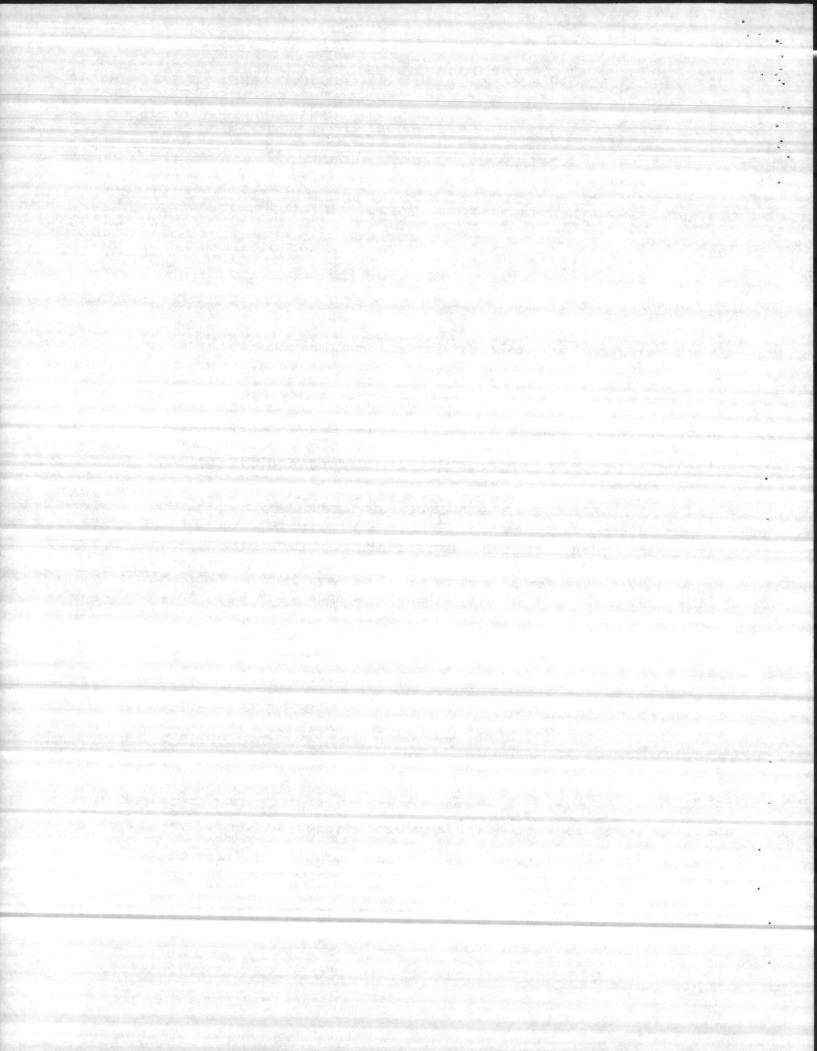
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 106 Date nest laid 7/29/86 Time laid 0300 (estimate)
Site Description 2.1 miles north of Risley Pier
Turtle observed ① N Tags ② N
Distance from high tide: 90 Ft.
Carapace length 102 in. (Curved) Carapace width 95 in.
Carapace length 90 in. (Straight) Carapace width 75 in.
Nest treatment: $M = Marked only$ $W = Wire cage$ $R = Relocated$ $H = Hatchery$ Time moved: 0340 N/A
Relocated where? 2.1 miles north of Risley Pier
Number of eggs: whole: 135 broken: 0 nest depth: 44 cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 10/03/86 (estimate?) Excavated by: G.E. FINLEY Date excavated: 10/03/86
Hatched eggs, from which hatchlings escaped from egg $H = 105$
Hatched, escaped from nest $HN = \frac{93}{0}$ Hatched, dead in nest $\frac{0}{12}$
Unhatched eggs UH = 30
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{77.8}{4}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh North Carolina 27611.



TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 111 Date nest laid 8/04/86 Time laid 2200 (estimate)
Site Description 0.7 miles north of Risley Pier
Turtle observed YM Tags YM
Distance from high tide: 75 Ft.
Carapace length 97 in. (Curved) Carapace width 87 in.
Carapace length 87 in. (Straight) Carapace width 66 in.
Nest treatment: $M = Marked only$. $W = Wire cage$ $R = Relocated$ $R = Hatchery$ Time moved: $R = N/A$
Relocated where? moved to .6 miles north of Risley Pier
Number of eggs: whole: 132 broken: 0 nest depth: 43 cm
Comments (predation, description of turtle, etc) N/A
Date nest hatched: 10/17/86 (estimate?) Excavated by: G.E. FINLEY Date excavated: 10/31/86
Date nest hatched: 10/17/86 (estimate?) Excavated by: G.E. FINLEY Date excavated: 10/31/86
Date nest hatched: $10/17/86$ (estimate?) Excavated by: G.E. FINLEY Date excavated: $10/31/86$ Hatched eggs, from which hatchlings escaped from egg H = 95 Hatched, escaped from nest HN = 55 Hatched, dead in nest 2
Date nest hatched: $10/17/86$ (estimate?) Excavated by: G.E. FINLEY Date excavated: $10/31/86$ Hatched eggs, from which hatchlings escaped from egg H = 95 Hatched, escaped from nest HN. = 55 Hatched, dead in nest 2 Hatched, alive in nest 38
Date nest hatched: $10/17/86$ (estimate?) Excavated by: G.E. FINLEY Date excavated: $10/31/86$ Hatched eggs, from which hatchlings escaped from egg H = 95 Hatched, escaped from nest HN = 55 Hatched, dead in nest $\frac{2}{38}$ Unhatched eggs UH = 37
Date nest hatched: $10/17/86$ (estimate?) Excavated by: G.E. FINLEY Date excavated: $10/31/86$ Hatched eggs, from which hatchlings escaped from egg H = 95 Hatched, escaped from nest $10/10/10/10/10/10/10/10/10/10/10/10/10/1$
Date nest hatched: $10/17/86$ (estimate?) Excavated by: G.E. FINLEY Date excavated: $10/31/86$ Hatched eggs, from which hatchlings escaped from egg H = 95 Hatched, escaped from nest HN. = 55 Hatched, dead in nest 2 Hatched, alive in nest 38 Unhatched eggs UH = 37 Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A Eggs with no discernible embryo N/A Eggs with embryo <3 cm N/A Eggs with embryo >3 cm N/A Survival Percentage of hatchlings from nest SP = $10/31/86$
Date nest hatched: $10/17/86$ (estimate?) Excavated by: G.E. FINLEY Date excavated: $10/31/86$ Hatched eggs, from which hatchlings escaped from egg H = 95 Hatched, escaped from nest HN. = 55 Hatched, dead in nest 2 Hatched, alive in nest 38 Unhatched eggs UH = 37 Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A Eggs with no discernible embryo N/A Eggs with embryo <3 cm N/A Eggs with embryo >3 cm N/A



TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 112 Date nest laid 8/09/86 Time laid 0005 (estimate)
Site Description 1.5 miles north of Risley Pier
Turtle observed $Y \widehat{\mathbb{N}}$ Tags $Y \widehat{\mathbb{N}}$
Distance from high tide: 75 Ft.
Carapace length 97 in. (Curved) Carapace width 88 in.
Carapace length 90 in. (Straight) Carapace width 70 in.
Nest treatment: $M = Marked only$
Relocated where? Moved 25 ft. up to the dunes.
Number of eggs: whole: 116 broken: 0 nest depth: 53 cm
Comments (predation, description of turtle, etc) N/A
HATCHING DATA
Date nest hatched: 10/30/86 (estimate?) Excavated by: G.E. FINLEY Date excavated: 10/31/86
Hatched eggs, from which hatchlings escaped from egg $H = 86$
Hatched, escaped from nest $HN = 36$ Hatched, dead in nest 1 Hatched, alive in nest 49
Unhatched eggs UH = 30
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HN}{H} = \frac{74.1\%}{100}$
Comments (factors affecting hatching success, deformed hatchlings, etc) N/A
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh

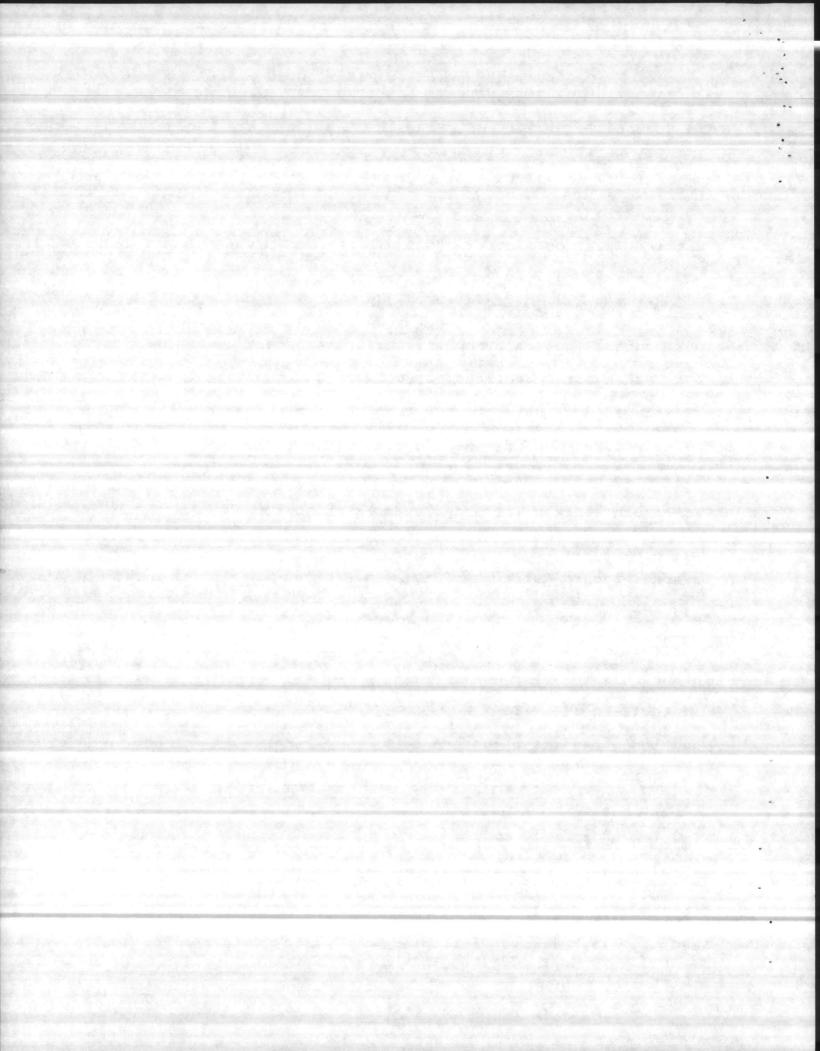


COOPERATIVE MARINE TURTLE TAGGING PROGRAM TAGGING DATA (NESTING TURTLES)

Tag Number(s) 99/100 Specie	s <u>CC</u> Da	te Encountered 6/19/8	6		
(list all tag #'s and letters) AAR					
Describe location encountered: 0	.5 miles north	of Risley Pier			
Circle correct answer:					
"New" turtle (not carrying any ta	g or tag scar)	YES NO			
If no, then circle correct catego	ry:				
(1) Recapture of same project tur	tle (within se	ason. or multi-annual)		
(2) Recapture of different project turtle					
(3) Turtle has definite tag scars					
Tag return address (If other than	NMFS Lab/Vir	Key)	e Propin		
Carapace length (straight line)	90 cm	in.			
Carapace width (straight line)	72 cm	in.			
Carapace length (over curve)	96 cm	in.			
Carapace width (over curve)	89 cm	in.			
Did turtle nest? YES NO UNDE	TERMINED (cir	cle one)			
Additional remarks or data (use b	ack if necessa	ry) <u>Turtle made 3</u>			
holes, but failed to lay.					

Organization Tagging:

Natural Resources and Environmental Affairs Division, Blag. 1103, Marine Corps Base, Camp Lejeune, North Carolina 28542 (919) 451-2195

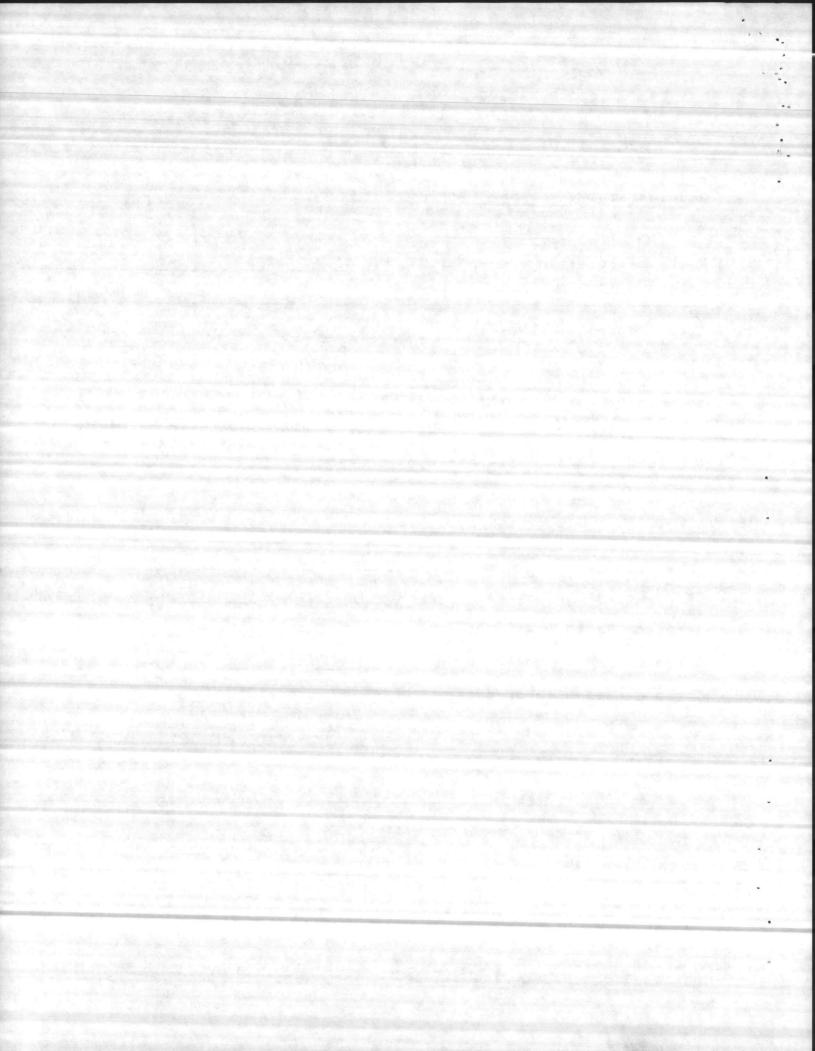


COOPERATIVE MARINE TURTLE TAGGING PROGRAM TAGGING DATA (NESTING TURTLES)

Tag Number(s) 171/172 Specie	s <u>CC</u> Date	e Encountered6/20/86
(list all tag #'s and letters) AAR		
Describe location encountered: 1	.8 miles north o	f Risley Pier
Circle correct answer:		
"New" turtle (not carrying any ta	g or tag scar)	YES NO
If no, then circle correct categor	ry:	
(1) Recapture of same project tur	tle (within seas	son or multi-annual)
(2) Recapture of different project	t turtle	
(3) Turtle has definite tag scars		
Tag return address (If other than	NMFS Lab/Vir Ke	ey)
Carapace length (straight line)	81 cm	in.
Carapace width (straight line)	65 cm	in.
Carapace length (over curve)	90 cm	in.
Carapace width (over curve)	89 cm	in.
Did turtle nest? (YES) NO UNDE	CTERMINED (circ	le one)
Additional remarks or data (use k	ack if necessar	y) Nest moved to 2.7
miles north of Risley Pier.		

Organization Tagging:

Natural Resources and Environmental Affairs Division, Bldg. 1103, Marine Corps Base, Camp Lejeune, North Carolina 28542 (919) 451-2195

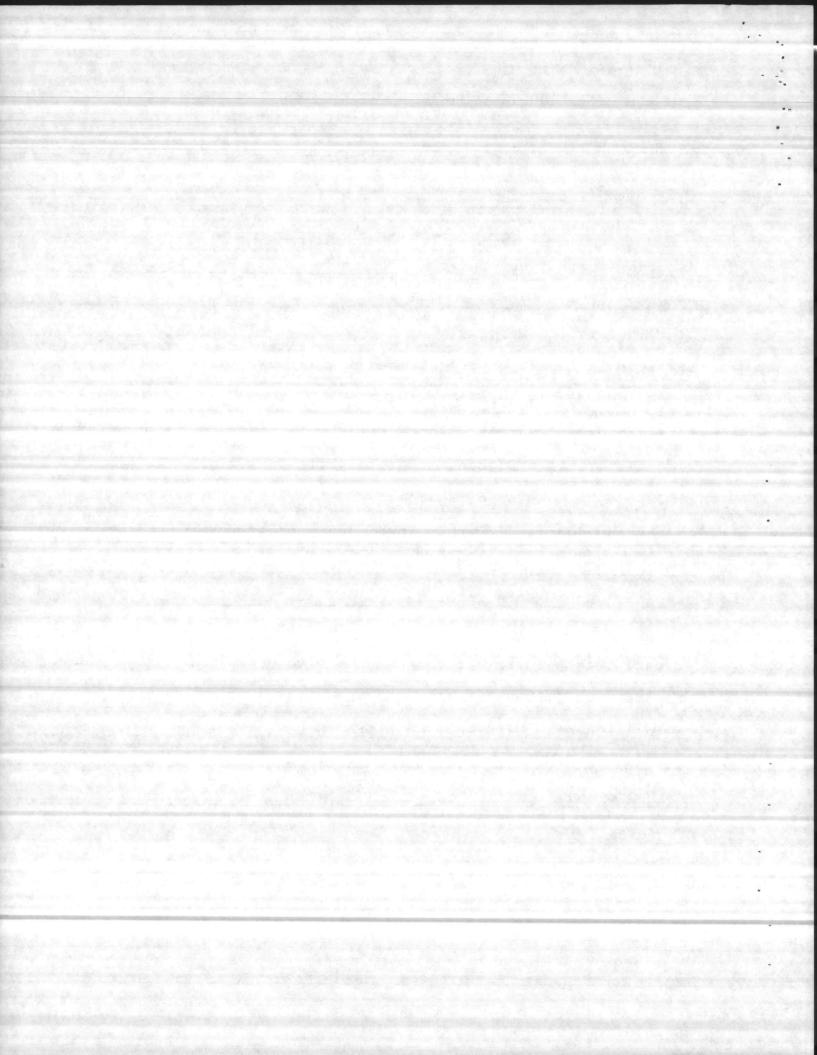


COOPERATIVE MARINE TURTLE TAGGING PROGRAM TAGGING DATA (NESTING TURTLES)

Tag Number(s) 173/174 Species CC Date Encou	intered 6/21/86
(list all tag #'s and letters) AAR	
Describe location encountered: 2.8 miles south of Risl	ey Pier
Circle correct answer:	
"New" turtle (not carrying any tag or tag scar)	YES NO
If no, then circle correct category:	
(1) Recapture of same project turtle (within season or	multi-annual)
(2) Recapture of different project turtle	
(3) Turtle has definite tag scars	
Tag return address (If other than NMFS Lab/Vir Key)	the result of the file states at a
Carapace length (straight line) 72 cm	in.
Carapace width (straight line)88 cm	in.
Carapace length (over curve) 94 cm	in.
Carapace width (over curve)68 cm	in.
Did turtle nest? YES NO UNDETERMINED (circle one	
Additional remarks or data (use back if necessary) Tu	rtle tested
ground and then left.	

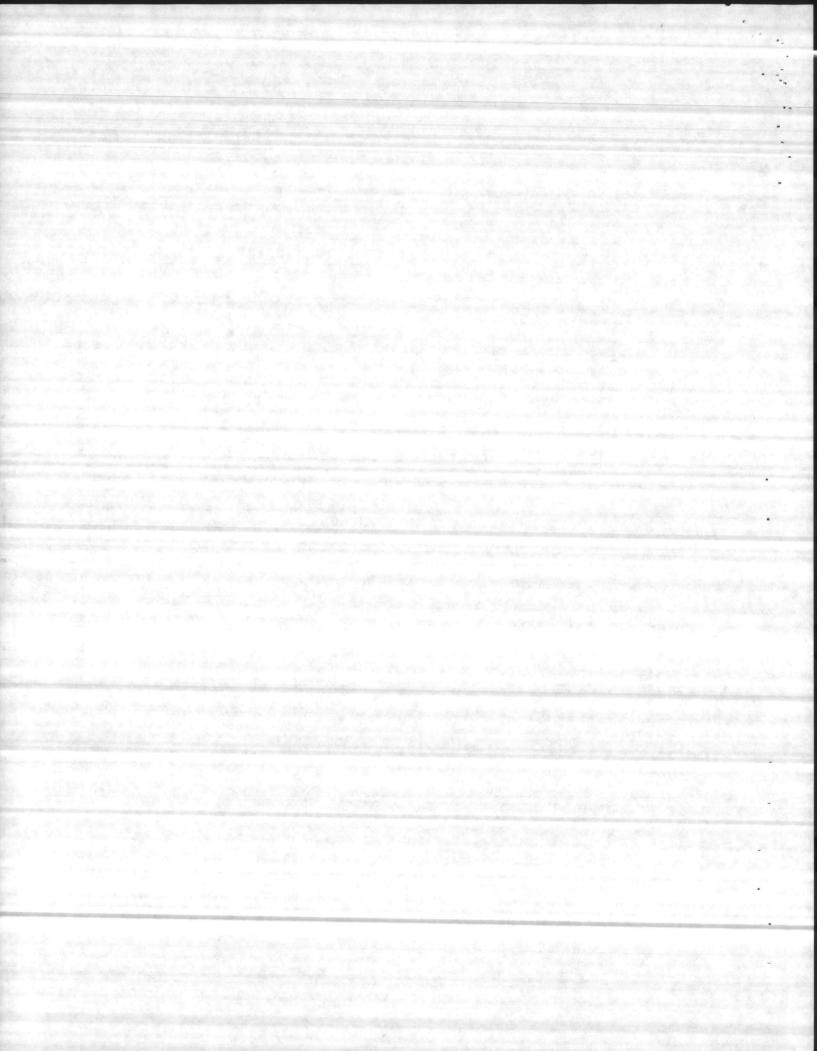
Organization Tagging:

Natural Resources and Environmental Affairs Division, Bldg. 1103, Marine Corps Base, Camp Lejeune, North Carolina 28542 (919) 451-2195



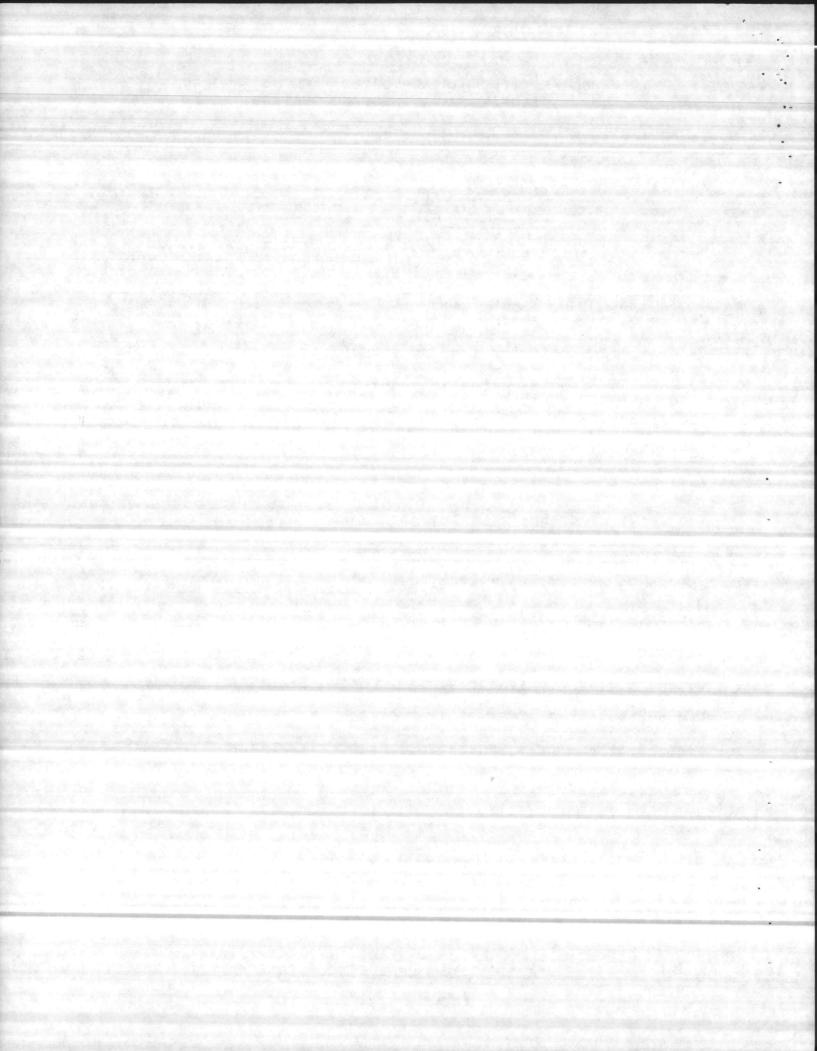
Tag Number(s) <u>051/052</u> Species	CC Date En	countered 7/10/86
(list all tag #'s and letters) AAR		
Describe location encountered: 2.5 m	niles south of R	isley Pier
Circle correct answer:		
"New" turtle (not carrying any tag or	r tag scar)	YES NO
If no, then circle correct category:		
(1) Recapture of same project turtle	(within season	or multi-annual)
(2) Recapture of different project to	urtle	
(3) Turtle has definite tag scars		
Tag return address (If other than NMI	FS Lab/Vir Key)	
Carapace length (straight line)	cm	in.
Carapace width (straight line)		<u> </u>
Carapace length (over curve) 10	03 cm	in.
Carapace width (over curve) 89	9 cm	in.
Did turtle nest? YES NO UNDETER	MINED (circle	one)
Additional remarks or data (use back	if necessary)	Low dunes, tried
to nest in hard grassy area.	and the second second second	and an experience of the parties of the control of

Organization Tagging:



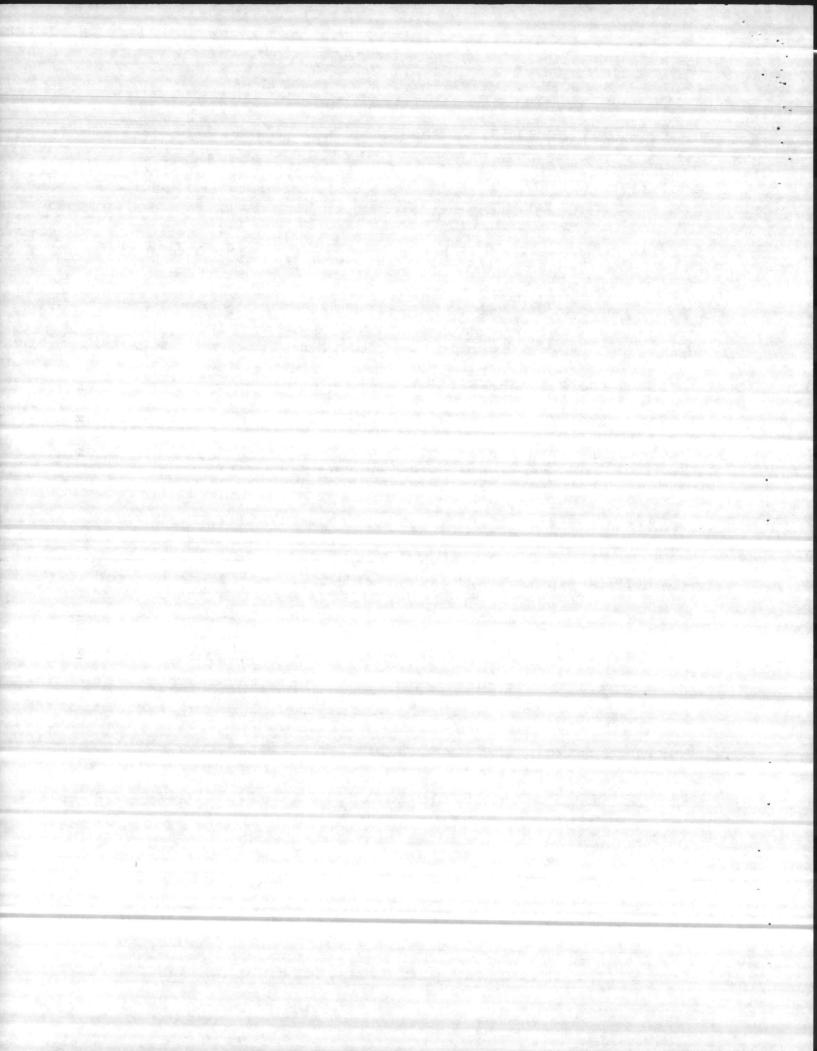
Tag Number(s) 747 Species	CC Date	Encountered 7/10/86
(list all tag #'s and letters) IMS		
Describe location encountered: 1.6	miles north of	Risley Pier
Circle correct answer:		
"New" turtle (not carrying any tag	or tag scar)	YES NO
If no, then circle correct category	!	
(1) Recapture of same project turtl	e (within seaso	on or multi-annual)
(2) Recapture of different project	turtle	
(3) Turtle has definite tag scars		
Tag return address (If other than N	IMFS Lab/Vir Ke	y)
Carapace length (straight line)	cm	in.
Carapace width (straight line)	cm	in.
Carapace length (over curve)	95 cm	in.
Carapace width (over curve)	89 cm	in.
Did turtle nest? YES NO UNDETE	ERMINED (circl	e one)
Additional remarks or data (use back	ck if necessary	

Organization Tagging:



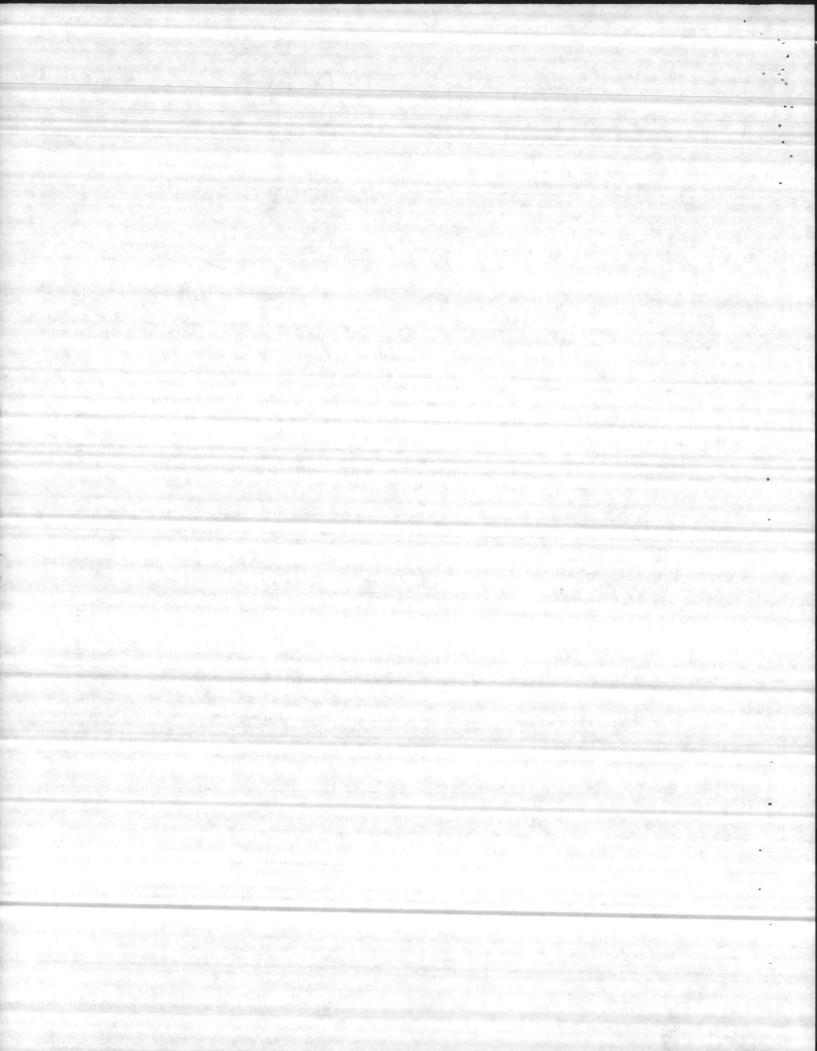
Tag Number(s)	171/172	Species _	СС	Date En	countered 7/	15/86
(list all tag # and letters)	AAR					
Describe locati	on encountere	ed: 0.2	miles no	orth of Ri	sley Pier	
Circle correct	answer:					
"New" turtle (r	not carrying	any tag	or tag s	car)	YES NO)
If no, then cir	cle correct	category				
(1) Recapture	of same proje	ct turtle	e (withi	n season	or multi-an	nual)
(2) Recapture	of different	project	turtle			
(3) Turtle has	definite tag	scars				
Tag return addı	ess (If othe	r than Ni	MFS Lab/	Vir Key)		Act of the second
Carapace length	n (straight l	ine) 8	32 cm	1 - 8	in.	
Carapace width	(straight li	ne)6	57 cm	90.20	in.	
Carapace length	n (over curve)	00 cm		in.	
Carapace width	(over curve)	8	36 cm		in.	
Did turtle nes	t? YES NO	UNDETE	RMINED	(circle o	ne)	
Additional rem	arks or data	(use bac	k if nec	essary)	Laid 84 egg	s,
nest moved into	o dunes at sa	me locati	on from	Risley Pi	er.	

Organization Tagging:



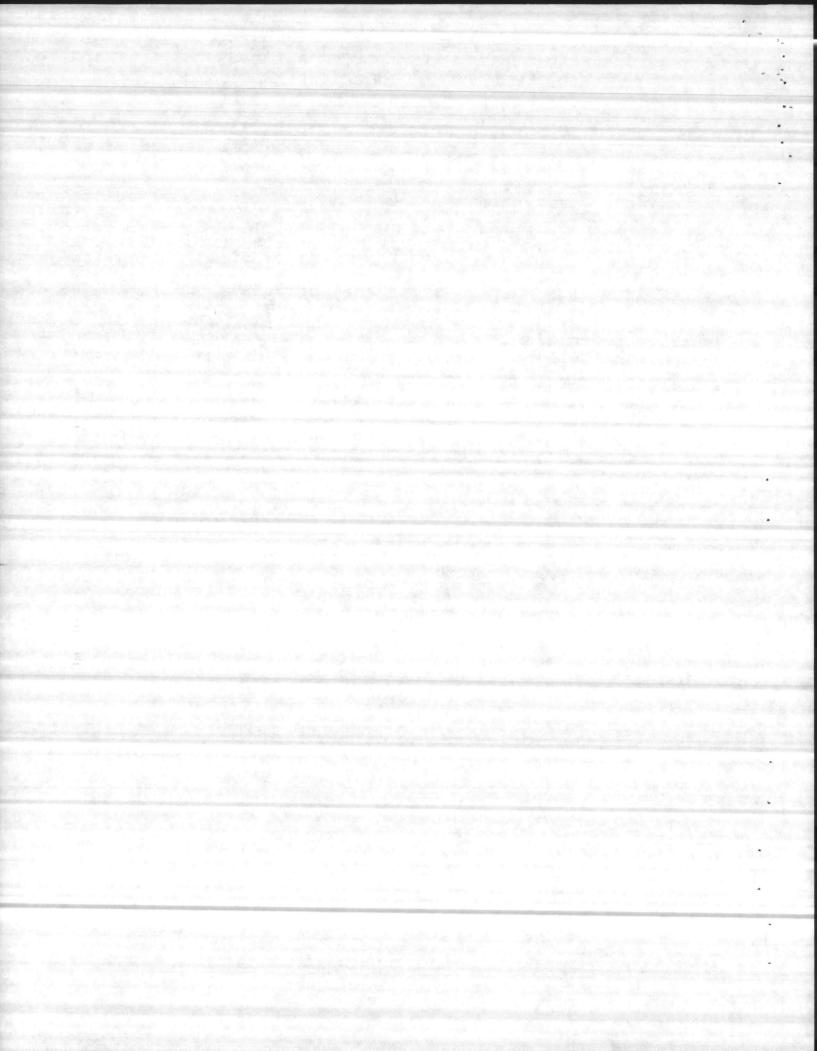
Tag Number(s) 099/100 Species	CC Date Er	acountered 7/15/86
(list all tag #'s and letters) AAR		
Describe location encountered: 1.6 mi	les south of R	isley Pier
Circle correct answer:		
"New" turtle (not carrying any tag or	tag scar)	YES NO
If no, then circle correct category:		
(1) Recapture of same project turtle	(within season	or multi-annual)
(2) Recapture of different project tu	rtle	
(3) Turtle has definite tag scars		
Tag return address (If other than NMF	S Lab/Vir Key)	
Carapace length (straight line)	cm	in.
Carapace width (straight line)	cm	in.
Carapace length (over curve) 96	cm	in.
Carapace width (over curve) 86	cm	in.
Did turtle nest? YES NO UNDETERM	INED (circle	one)
Additional remarks or data (use back	if necessary)	Turtle dug hole
as if to lay, but failed to lay.		

Organization Tagging:



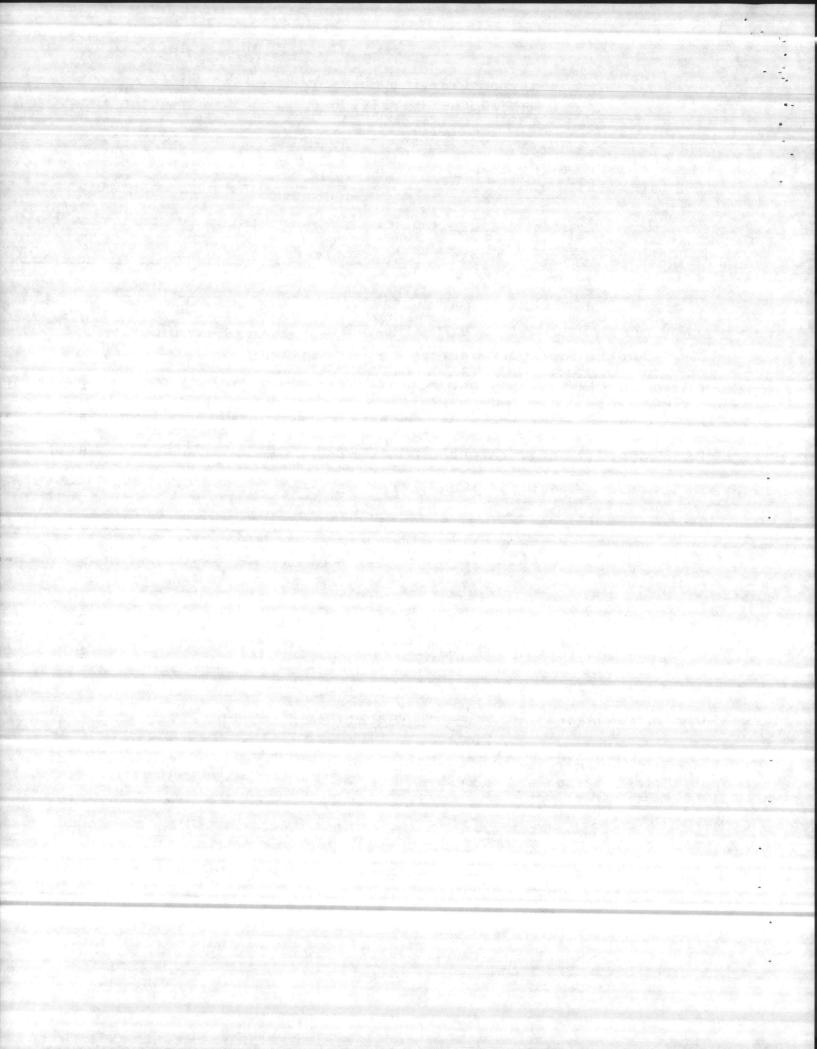
Tag Number(s) 173/174 Species _	<u>CC</u> Date Er	countered //16/86
(list all tag #'s and letters) AAR		
Describe location encountered: 1.6 m	miles south of R	isley Pier
Circle correct answer:		
"New" turtle (not carrying any tag o	r tag scar)	YES NO
If no, then circle correct category:		
(1) Recapture of same project turtle	(within season	or multi-annual)
(2) Recapture of different project t	urtle	
(3) Turtle has definite tag scars		
Tag return address (If other than NM	FS Lab/Vir Key)	
Carapace length (straight line)	cm	in.
Carapace width (straight line)	cm	in.
Carapace length (over curve) 9	2 cm	in.
Carapace width (over curve) 8	7 cm	in.
Did turtle nest? YES NO UNDETER	MINED (circle	one)
Additional remarks or data (use back	if necessary)	Turtle came ashore
but did not lay.		

Organization Tagging:



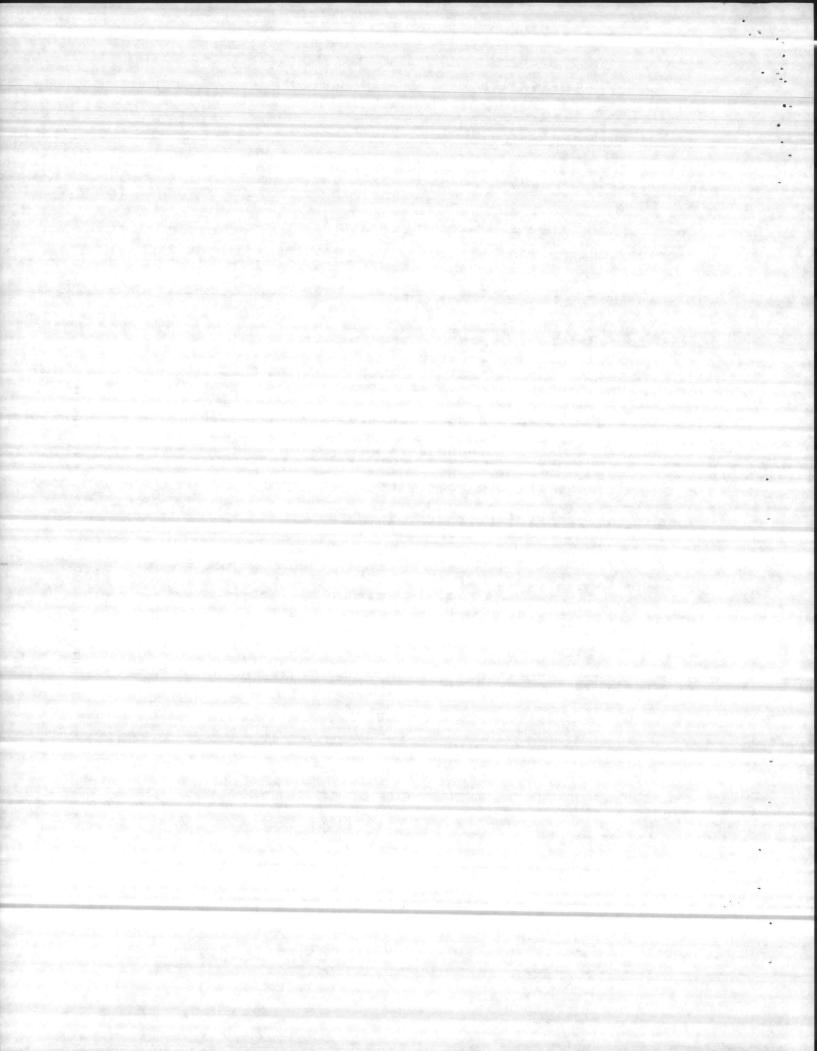
Tag Number(s) <u>173/174</u> Species _	CC Date	Encountered 7/16/86
(list all tag #'s and letters) AAR		
Describe location encountered: 0.3	miles north of	Risley Pier
Circle correct answer:		
"New" turtle (not carrying any tag o	r tag scar)	YES NO
If no, then circle correct category:		
(1) Recapture of same project turtle	(within seaso	n or multi-annual)
(2) Recapture of different project t	urtle	
(3) Turtle has definite tag scars		
Tag return address (If other than NM	FS Lab/Vir Key	•)
Carapace length (straight line)	cm	in.
Carapace width (straight line)	cm	in.
Carapace length (over curve)	cm	in.
Carapace width (over curve)	cm	in.
Did turtle nest? YES NO UNDETER	MINED (circle	e one)
Additional remarks or data (use back	if necessary)	Came up on real
low tide, turned and went back into	water.	

Organization Tagging:



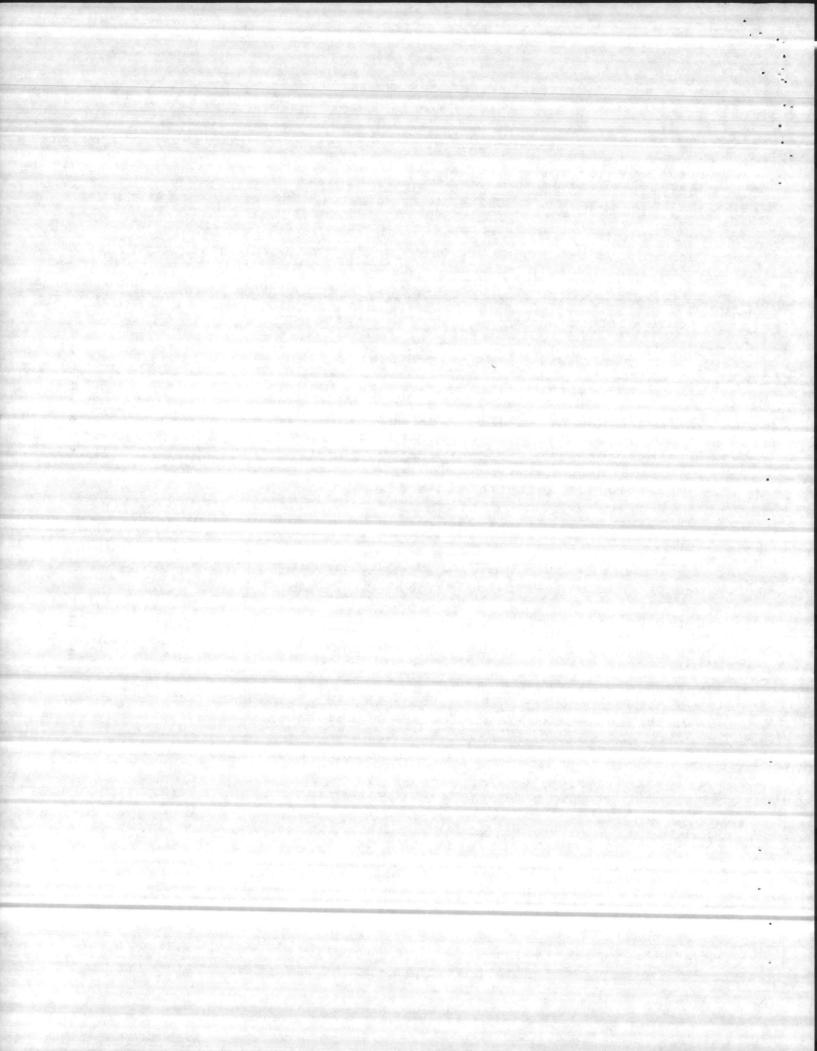
Tag Number(s) 173/174 Species CC	Date Encountered 7/17/86
(list all tag #'s and letters) AAR	
Describe location encountered: 0.4 miles	s south of Risley Pier
Circle correct answer:	
"New" turtle (not carrying any tag or tag s	car) YES NO
If no, then circle correct category:	
(1) Recapture of same project turtle (withi	n season or multi-annual)
(2) Recapture of different project turtle	
(3) Turtle has definite tag scars	
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) 92 cm	in.
Carapace width (over curve) 87 cm	in.
Did turtle nest? YES NO UNDETERMINED	(circle one)
Additional remarks or data (use back if nec	essary) Laid 106 eggs,
relocated at 0.1 miles north of Risley Pier	artineti, serie artineti, e e e e e e e e e e e e e e e e e e e

Organization Tagging:



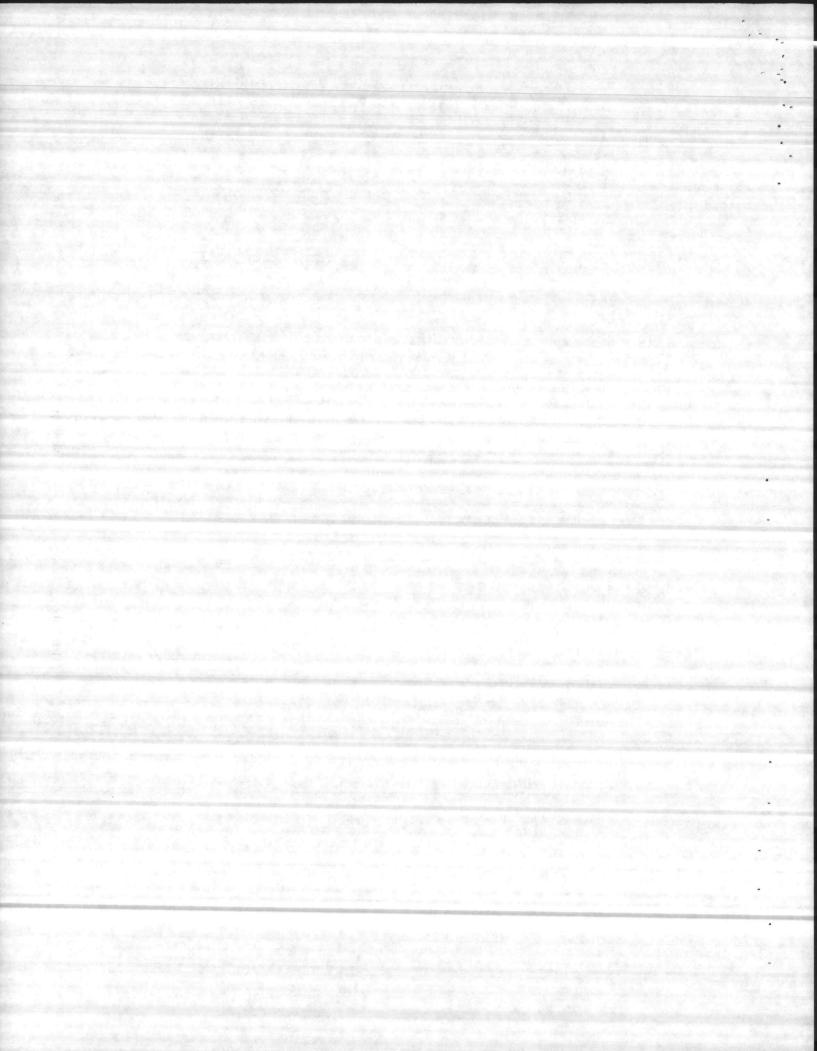
Tag Number(s) <u>183/184</u> Specie	s <u>CC</u>	Date Encountered 7/17/86
(list all tag #'s and letters) AAR		
Describe location encountered: 1	.4 miles sou	th of Risley Pier
Circle correct answer:		
"New" turtle (not carrying any ta	g or tag sca	r) YES NO
If no, then circle correct categor	ry:	
(1) Recapture of same project tur	tle (within	season or multi-annual)
(2) Recapture of different project	t turtle	
(3) Turtle has definite tag scars		
Tag return address (If other than	NMFS Lab/Vi	r Key)
Carapace length (straight line)	102 cm	in.
Carapace width (straight line)	74 cm	in.
Carapace length (over curve)	106 cm	in.
Carapace width (over curve)	102 cm	in.
Did turtle nest? (ES) NO UNDE	TERMINED (circle one)
Additional remarks or data (use k	ack if neces	ssary) Laid 123 eggs,
relocated nest at 2.1 miles north	of Risley P	ier.

Organization Tagging:



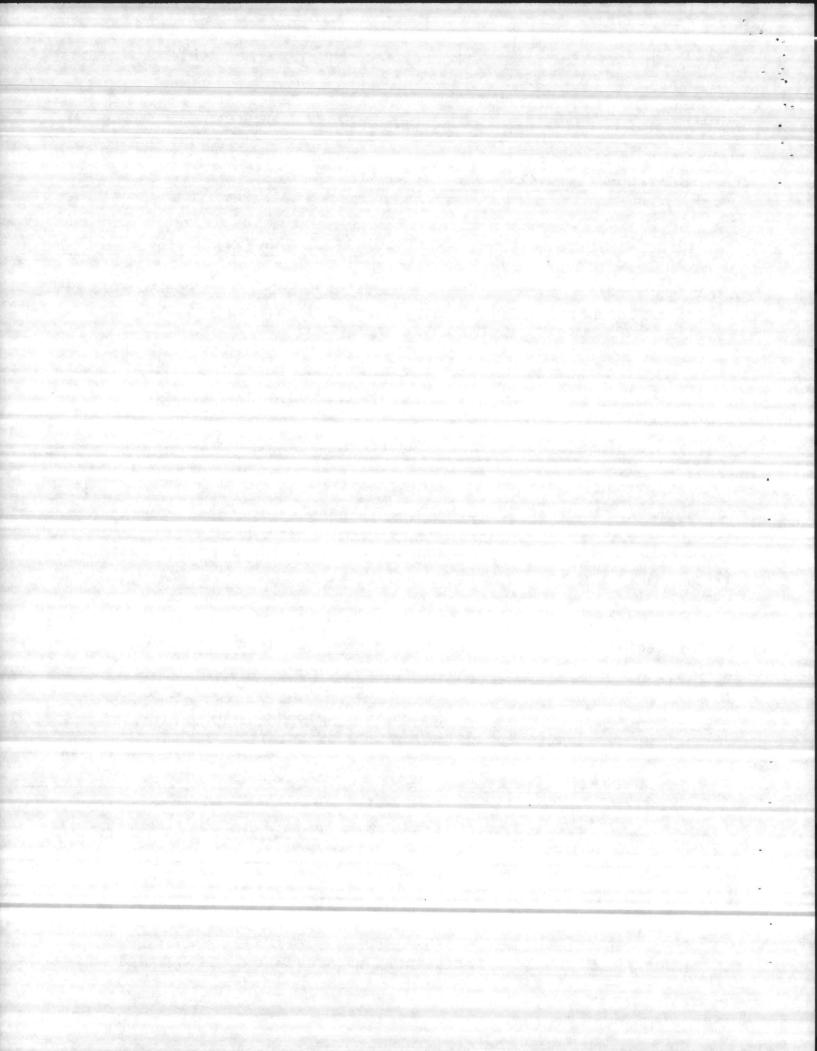
Tag Number(s) Species _	Date	Encountered 7/23/86
(list all tag #'s and letters)		
Describe location encountered: 0.6	miles north of	Risley Pier
Circle correct answer:	A Marie Sala	
"New" turtle (not carrying any tag	or tag scar)	YES NO
If no, then circle correct category	•	
(1) Recapture of same project turtle	e (within seas	on or multi-annual)
(2) Recapture of different project	turtle	
(3) Turtle has definite tag scars		
Tag return address (If other than N	MFS Lab/Vir Ke	у)
Carapace length (straight line)	cm	in.
Carapace width (straight line)	cm	in.
Carapace length (over curve)	cm	in.
Carapace width (over curve)	cm	in.
Did turtle nest? YES NO UNDETE	RMINED (circl	e one)
Additional remarks or data (use bac	k if necessary	Institute of Science
Morehead City (didn't see any number). Turtle was	in edge of water when
I turned her over, unable to obtain	carapace infor	mation.

Organization Tagging:



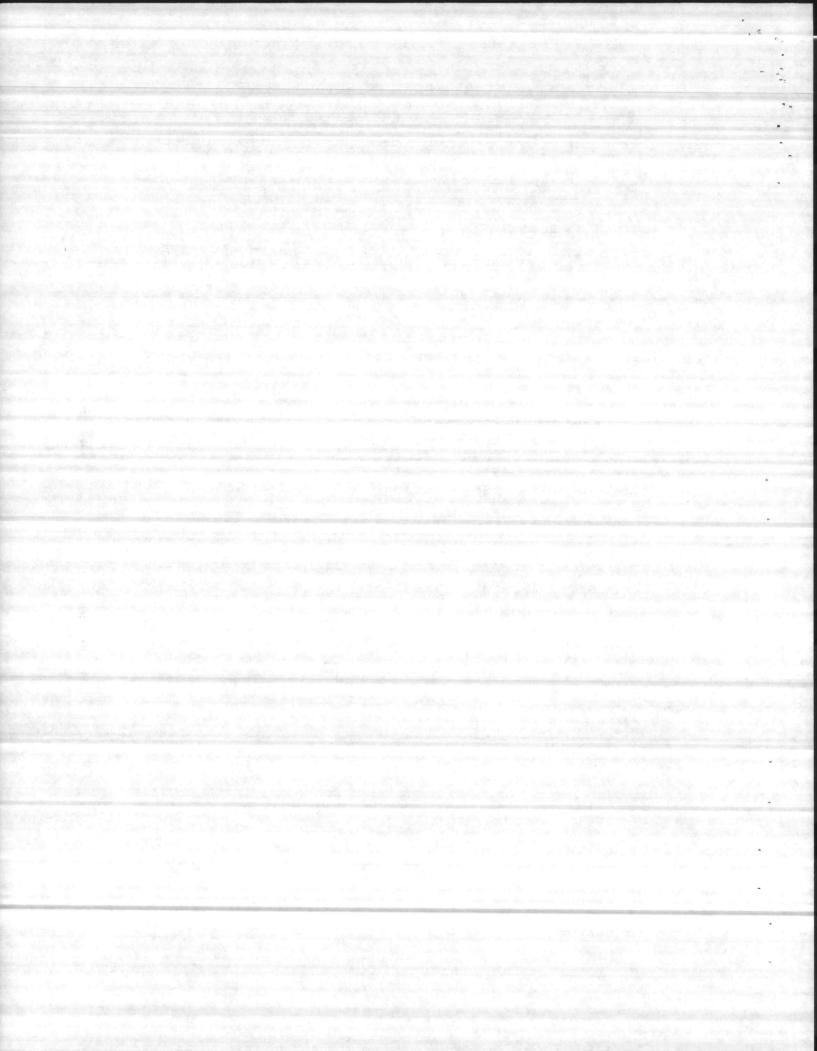
Tag Number(s) 185/186 Species Co	C Date Encountered 7/24/86
(list all tag #'s and letters) AAR	
Describe location encountered: 1.4 mile	es south of Risley Pier
Circle correct answer:	
"New" turtle (not carrying any tag or t	ag scar) YES NO
If no, then circle correct category:	
(1) Recapture of same project turtle (w	ithin season or multi-annual)
(2) Recapture of different project turt	:le
(3) Turtle has definite tag scars	
Tag return address (If other than NMFS	Lab/Vir Key)
Carapace length (straight line)	in.
Carapace width (straight line)	in.
Carapace length (over curve)	in.
Carapace width (over curve)	_ cmin.
Did turtle nest? YES NO UNDETERMIN	NED (circle one)
Additional remarks or data (use back if	necessary)

Organization Tagging:



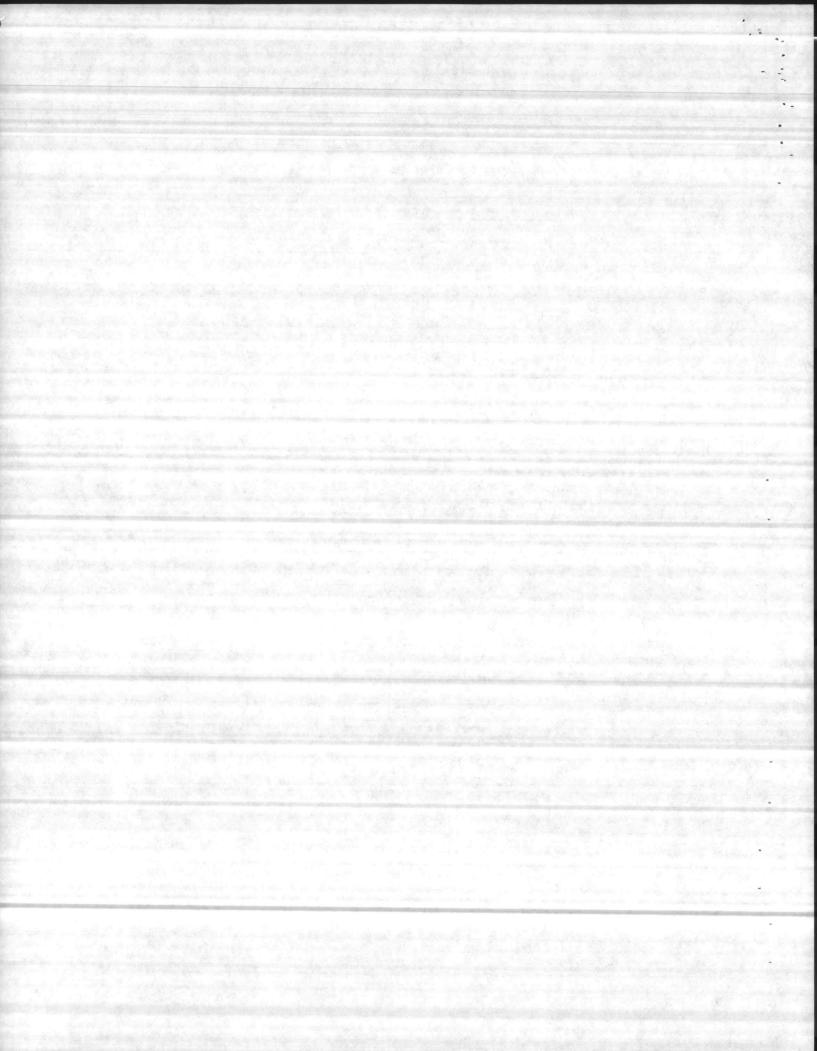
Tag Number(s) 171/172 Specie	s <u>CC</u>	Date Encountered 7/26/86
(list all tag #'s and letters) AAR		
Describe location encountered: 2	.3 miles nor	th of Risley Pier
Circle correct answer:		
"New" turtle (not carrying any ta	ag or tag sca	ar) YES NO
If no, then circle correct categor	ory:	
(1) Recapture of same project tur	tle (within	season or multi-annual)
(2) Recapture of different project	t turtle	
(3) Turtle has definite tag scars	3	
Tag return address (If other than	NMFS Lab/V	ir Key)
Carapace length (straight line)	82 cm	in.
Carapace width (straight line)	67 cm	in.
Carapace length (over curve)	90 cm	in.
Carapace width (over curve)	86 cm	in.
Did turtle nest? YES NO UNDI	ETERMINED (circle one)
Additional remarks or data (use h	back if nece	ssary)
	A Secretarian Company	

Organization Tagging:



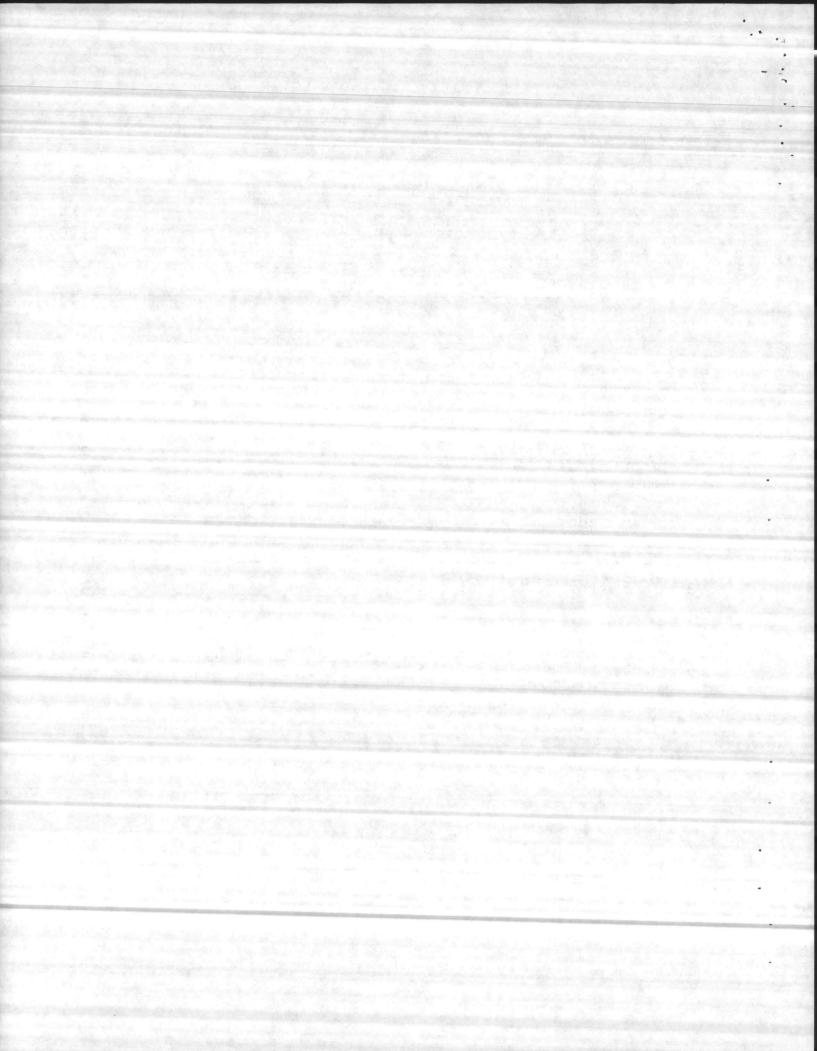
		CC Date	Encountered 7/26/86
(list all tag and letters)	#'s AAR		
Describe locat	ion encountered: 2.1	miles north of	Risley Pier
Circle correct	answer:		
"New" turtle (not carrying any tag	or tag scar)	YES NO
If no, then ci	rcle correct category	•	
(1) Recapture	of same project turtl	e (within seas	on or multi-annual)
(2) Recapture	of different project	turtle	
(3) Turtle has	definite tag scars		
Tag return add	ress (If other than N	MFS Lab/Vir Ke	y)
Carapace lengt	h (straight line)	cm	in.
	h (straight line)		in. in.
Carapace width		cm	
Carapace width	(straight line) h (over curve)	cm	in.
Carapace width Carapace lengt Carapace width	(straight line) h (over curve)	om 97	in. in. in.
Carapace width Carapace lengt Carapace width Did turtle nes	(straight line) h (over curve) (over curve) t? YES NO UNDETE	cm 97 cm 95 cm RMINED (circl	in. in. in.

Organization Tagging:



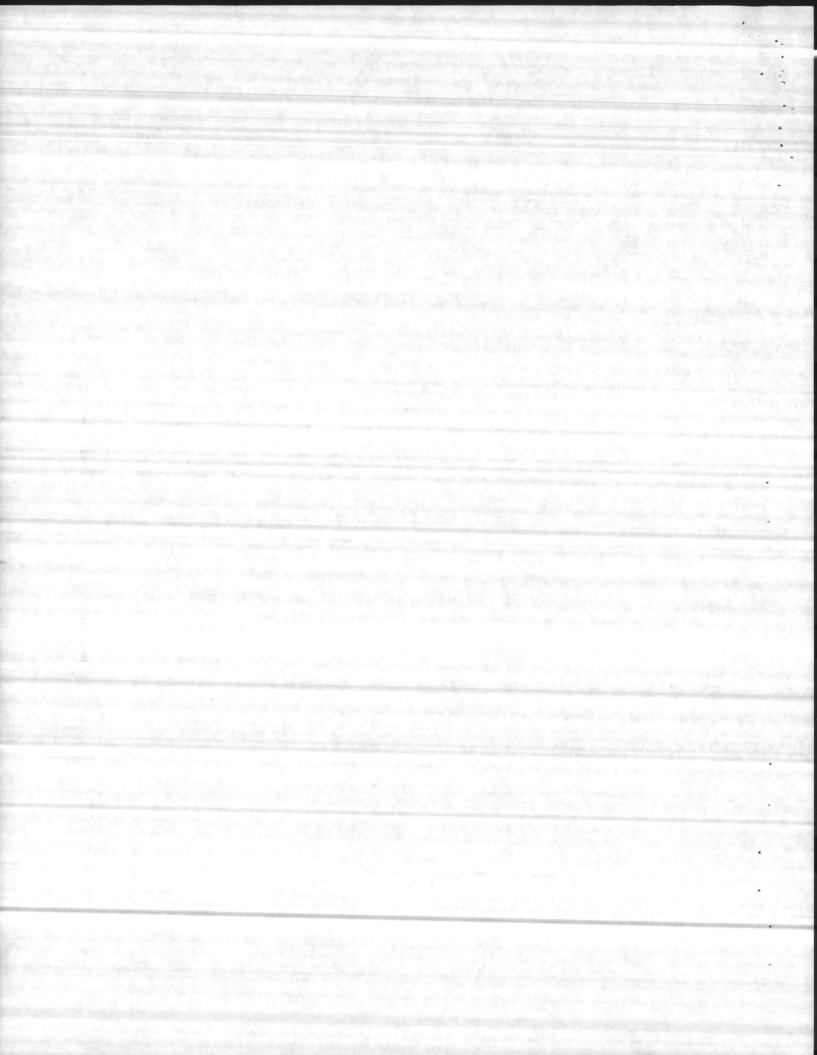
Tag Number(s) 189/190 Specie	s CC	Date E	ncountered 7/28/86		
(list all tag #'s and letters) AAR					
Describe location encountered: 0	.8 miles s	outh of l	Risley Pier		
Circle correct answer:					
"New" turtle (not carrying any ta	ag or tag s	car)	YES NO		
If no, then circle correct categor	ory:				
(1) Recapture of same project turtle (within season or multi-annual)					
(2) Recapture of different project turtle					
(3) Turtle has definite tag scars					
Tag return address (If other than NMFS Lab/Vir Key)					
	2.0				
Carapace length (straight line)	93 cm		in.		
Carapace width (straight line)	79 cm		in.		
Carapace length (over curve)	98 cm	M. F.	in.		
Carapace width (over curve)	83 cm		in.		
Did turtle nest? YES NO UNDE	ETERMINED	(circle	one)		
Additional remarks or data (use back if necessary) Turtle laid facing					
the water. Moved nest to 0.6 mil					

Organization Tagging:



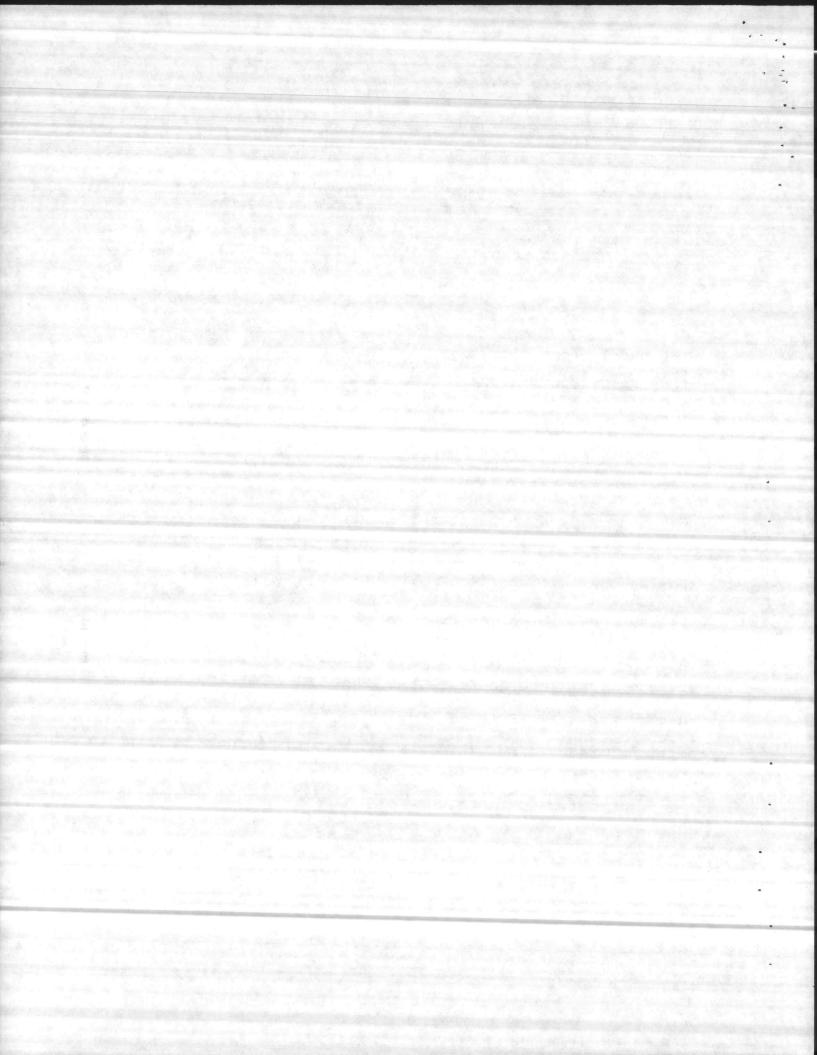
Tag Number(s) <u>051/052</u> Species	CC Date E	ncountered 7/10/86
(list all tag #'s and letters) AAR		
Describe location encountered: 2.5 mi	les south of	Risley Pier
Circle correct answer:		
"New" turtle (not carrying any tag or	tag scar)	YES NO
If no, then circle correct category:		
(1) Recapture of same project turtle	within season	or multi-annual)
(2) Recapture of different project tur	tle	
(3) Turtle has definite tag scars		
Tag return address (If other than NMFS	S Lab/Vir Key)	
Carapace length (straight line)	cm	in.
Carapace width (straight line)	cm	in.
Carapace length (over curve)103	3 cm	in.
Carapace width (over curve) 89	cm	in.
Did turtle nest? YES NO UNDETERM	INED (circle	one)
Additional remarks or data (use back	if necessary)	Low dunes, tried
to nest in hard grassy area.		

Organization Tagging:



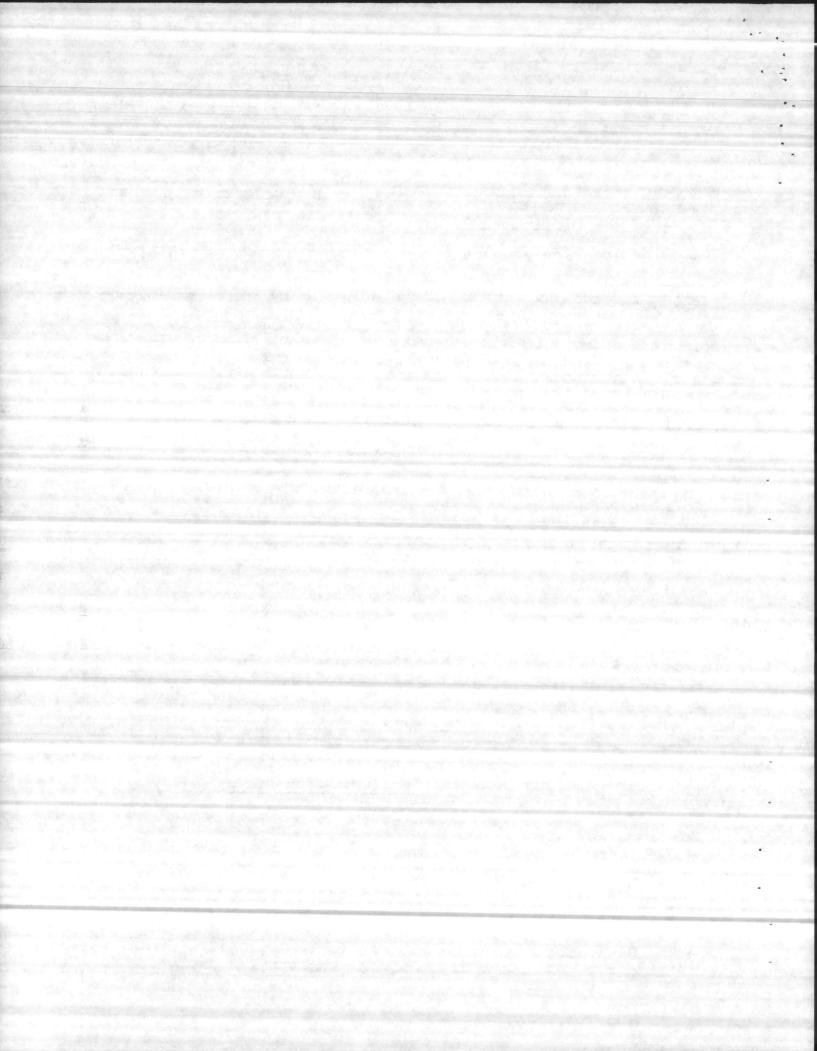
Tag Number(s) 747 Spe	ecies <u>CC</u>	Date	Encountered 7/10/86		
(list all tag #'s and letters) IMS					
Describe location encountered	: 1.6 mile	es north of	Risley Pier		
Circle correct answer:					
"New" turtle (not carrying any	y tag or to	ag scar)	YES NO		
If no, then circle correct car	tegory:				
(1) Recapture of same project	turtle (w	ithin séasc	on or multi-annual)		
(2) Recapture of different project turtle					
(3) Turtle has definite tag scars					
Tag return address (If other than NMFS Lab/Vir Key)					
Carapace length (straight line	e)	Cm	in.		
Carapace width (straight line)	cm	in.		
Carapace length (over curve)	95	cm	<u>·</u> in.		
Carapace width (over curve)	89	cm	in.		
Did turtle nest? YES NO UNDETERMINED (circle one)					
Additional remarks or data (u	se back if	necessary			

Organization Tagging:



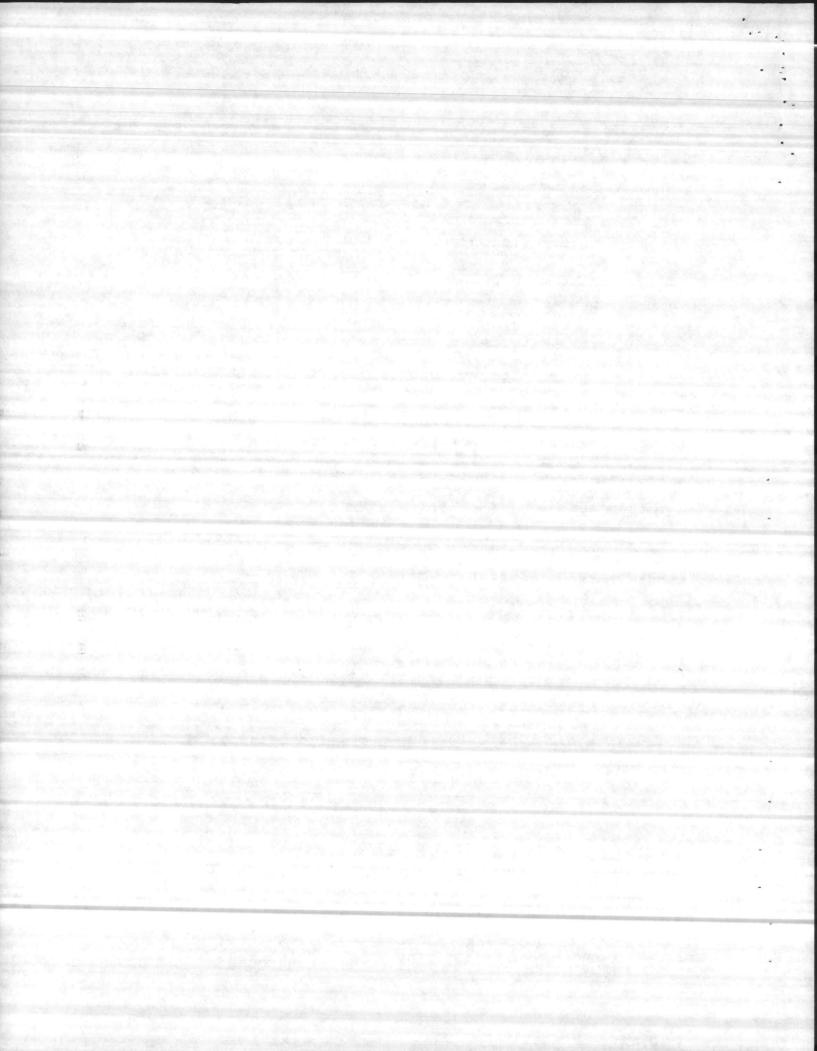
Tag Number(s) 171/172 Specie	s <u>CC</u>	Date Encountered 7/15/86
(list all tag #'s and letters) AAR		
Describe location encountered:	.2 miles nor	rth of Risley Pier
Circle correct answer:		
"New" turtle (not carrying any ta	ng or tag sc	ar) YES NO
If no, then circle correct categor	ory:	
(1) Recapture of same project tur	tle (within	season or multi-annual)
(2) Recapture of different project	t turtle	
(3) Turtle has definite tag scars	5	
Tag return address (If other than	n NMFS Lab/V	rir Key)
Carapace length (straight line)	82 cm	in.
Carapace width (straight line)	67 cm	in.
Carapace length (over curve)	90 cm	in.
Carapace width (over curve)	86 cm	nn.
Did turtle nest? YES NO UNDE	ETERMINED (circle one)
Additional remarks or data (use b	back if nece	essary) Laid 84 eggs,
nest moved into dunes at same loc	ation from I	Risley Pier.

Organization Tagging:



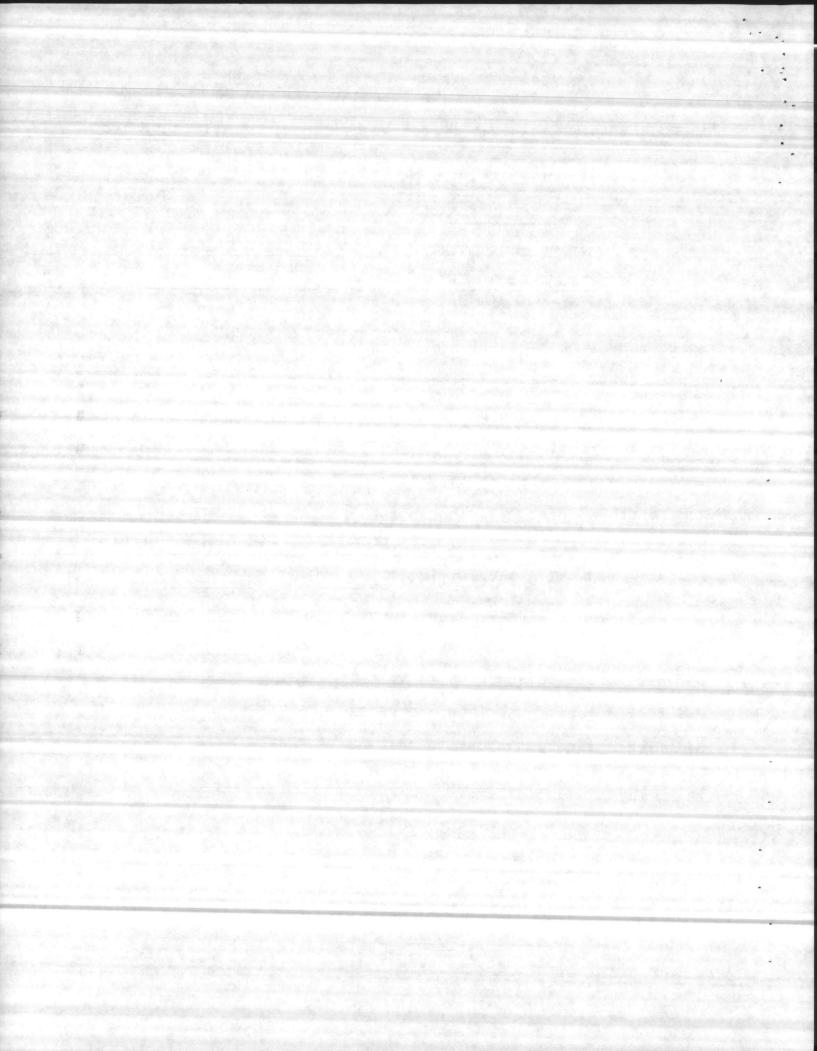
Tag Number(s) 099/100 Species _	CC Date End	countered 7/15/86
(list all tag #'s and letters) AAR		
Describe location encountered: 1.6	miles south of Ri	sley Pier
Circle correct answer:		
"New" turtle (not carrying any tag o	r tag scar)	YES NO
If no, then circle correct category:		
(1) Recapture of same project turtle	(within season	or multi-annual)
(2) Recapture of different project t	urtle	
(3) Turtle has definite tag scars		
Tag return address (If other than NM	FS Lab/Vir Key)	
Carapace length (straight line)	cm	in.
Carapace width (straight line)	cm	_ in. /
Carapace length (over curve) 9	6 cm	in.
Carapace width (over curve) 8	6 cm	in.
Did turtle nest? YES NO UNDETER	MINED (circle or	ne)
Additional remarks or data (use back	if necessary)	Turtle dug hole
as if to lay, but failed to lay.		

Organization Tagging:



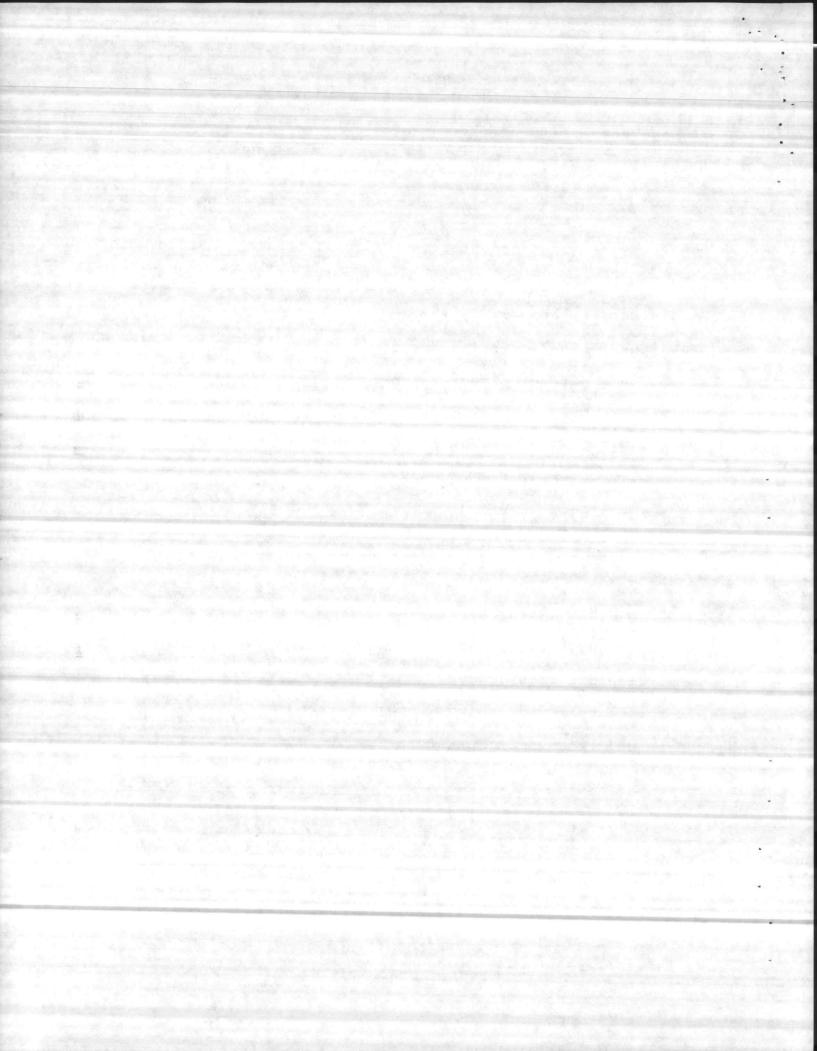
Tag Number(s)	173/174 Specie	s <u>CC</u>	Date Encou	intered 7 <u>/16/86</u>		
(list all tag #' and letters)	S AAR					
Describe location encountered: 1.6 miles south of Risley Pier						
Circle correct a	nswer:					
"New" turtle (no	t carrying any ta	g or tag so	ar)	YES NO		
If no, then circ	le correct catego	ry:				
(1) Recapture of	same project tur	tle (withir	season or	multi-annual)		
(2) Recapture of different project turtle						
(3) Turtle has d	efinite tag scars					
Tag return addre	ss (If other than	NMFS Lab/	/ir Key)			
Carapace length	(straight line) _	cm		in.		
Carapace width (straight line) _	cm	1 100	in.		
Carapace length	(over curve)	92 cm		in.		
Carapace width (over curve)	87 cm		in.		
Did turtle nest?	YES NO UNDE	TERMINED	(circle one)		
Additional remar	ks or data (use b	ack if nece	essary) <u>Tu</u>	rtle came ashore		
but did not lay.						

Organization Tagging:



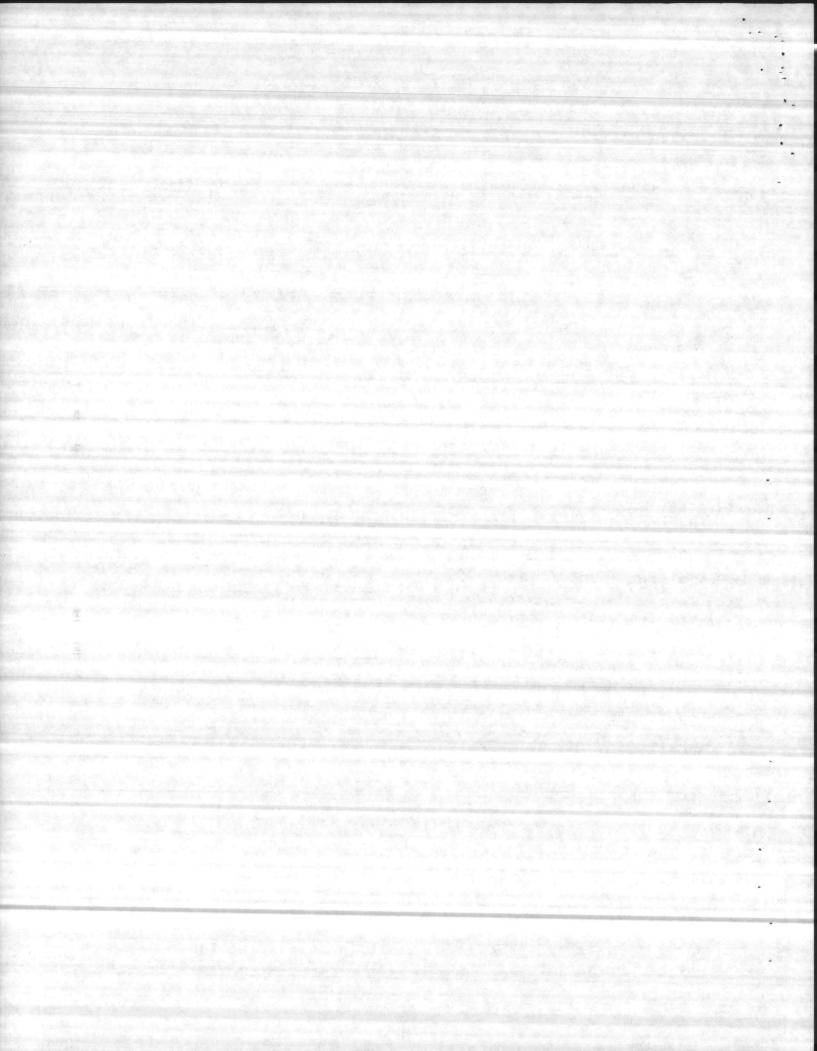
Tag Number(s) <u>173/174</u> Species	CC Date En	countered 7/16/86
(list all tag #'s and letters) AAR		
Describe location encountered: 0.3 m	niles north of Ri	sley Pier
Circle correct answer:		
"New" turtle (not carrying any tag or	tag scar)	YES NO
If no, then circle correct category:		
(1) Recapture of same project turtle	(within season	or multi-annual)
(2) Recapture of different project to	urtle	
(3) Turtle has definite tag scars		
Tag return address (If other than NMI	FS Lab/Vir Key)	
Carapace length (straight line)	cm	in.
Carapace width (straight line)	cm	in.
Carapace length (over curve)	CM	in.
Carapace width (over curve)	cm	in.
Did turtle nest? YES NO UNDETER	MINED (circle o	ne)
Additional remarks or data (use back	if necessary)	Came up on real
low tide, turned and went back into w	water.	

Organization Tagging:



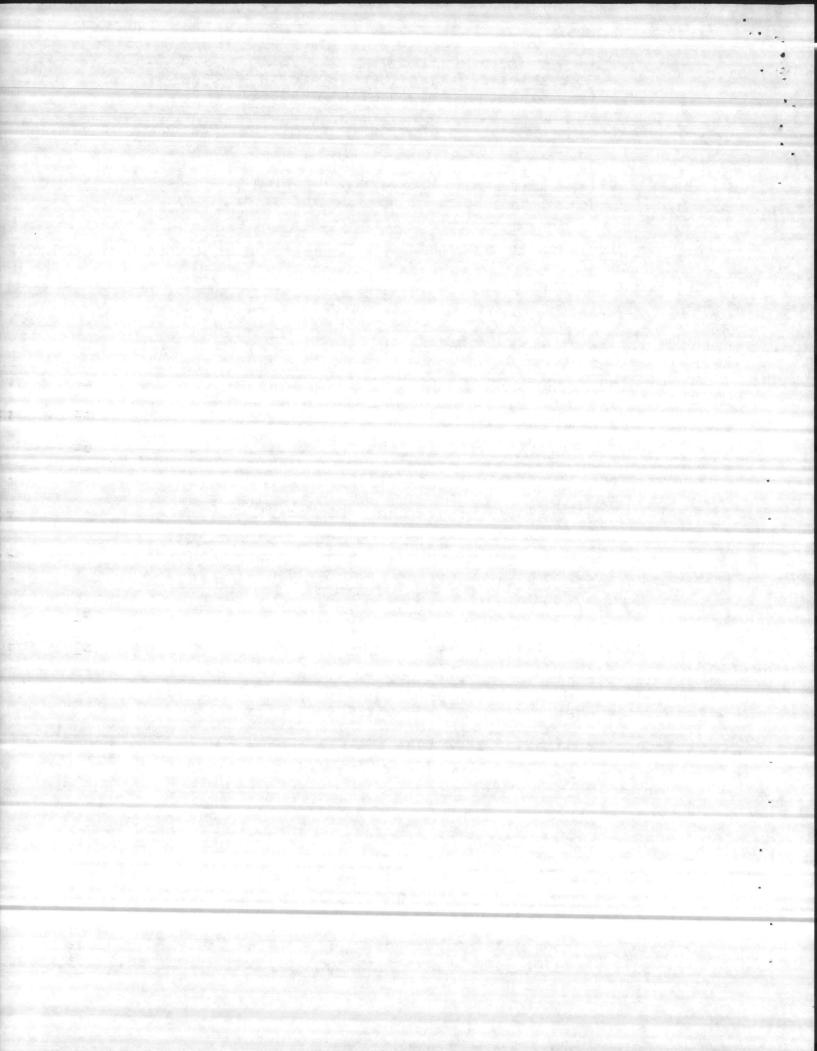
CC Date	Encountered 7/17/86
miles south	of Risley Pier
tag scar)	YES NO
within seaso	n or multi-annual)
tle	
Lab/Vir Key	
cm	in.
NED (circle	e one)
f necessary)	Laid 106 eggs,
Pier.	
	miles south tag scar) within seaso tle Lab/Vir Key cm cm cm cm cm

Organization Tagging:



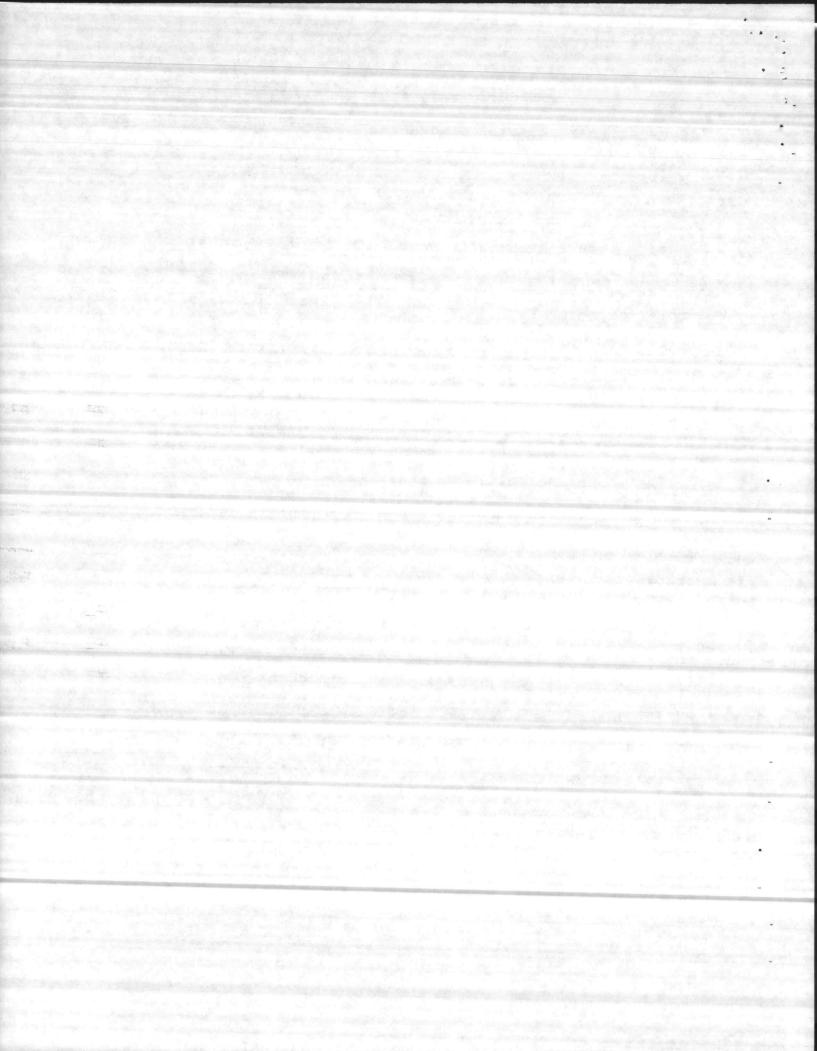
Tag Number(s) <u>183/184</u> Specie	s <u>CC</u>	Date Encountered 7/17/86
(list all tag #'s and letters) AAR		
Describe location encountered: 1	.4 miles sout	ch of Risley Pier
Circle correct answer:		
"New" turtle (not carrying any ta	g or tag sca	r) YES NO
If no, then circle correct categor	ry:	
(1) Recapture of same project tur	tle (within	season or multi-annual)
(2) Recapture of different project	t turtle	
(3) Turtle has definite tag scars		
Tag return address (If other than	NMFS Lab/Vi	r Key)
Carapace length (straight line) _	102 cm	in.
Carapace width (straight line)	74 cm	in.
Carapace length (over curve)	106 cm	in.
Carapace width (over curve)	102 cm	in.
Did turtle nest? (ES) NO UNDE	TERMINED (c	ircle one)
Additional remarks or data (use b	ack if neces	sary) Laid 123 eggs,
relocated nest at 2.1 miles north	of Risley P	ier.

Organization Tagging:



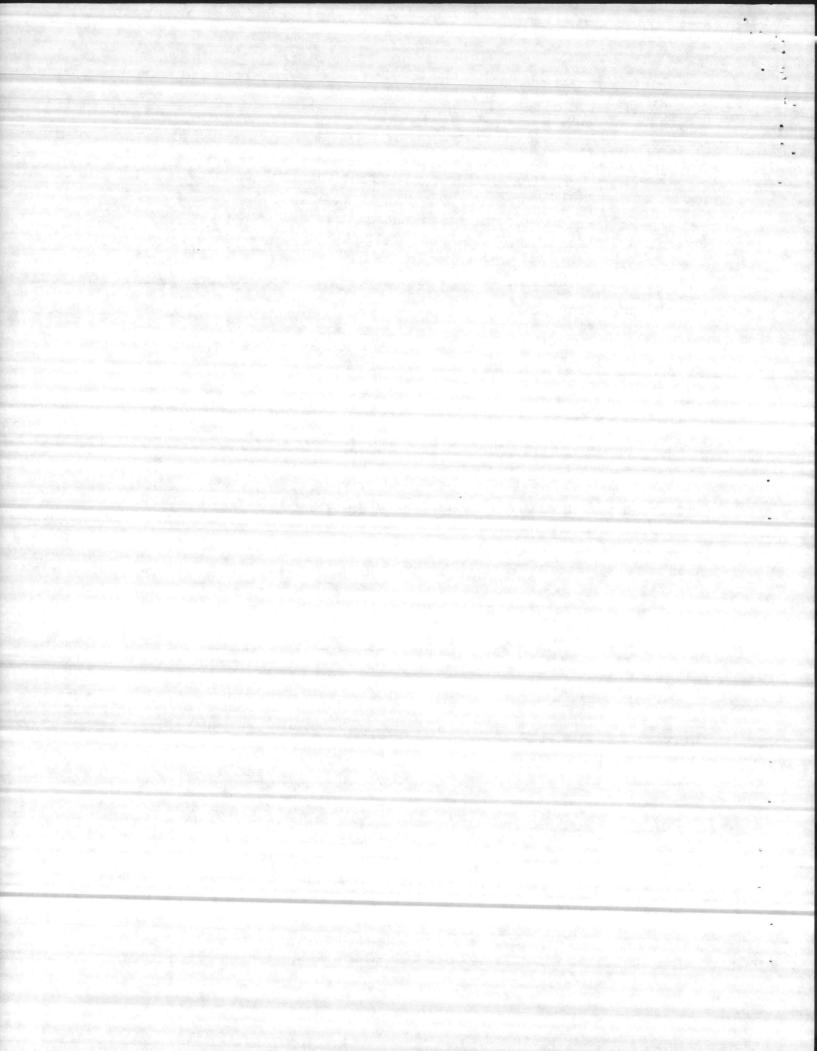
Tag Number(s)	Species _	CC D	ate Encou	ntered 7 <u>/23/86</u>
(list all tag #'s and letters)				
Describe location encount	ered: 0.6	miles nort	h of Risle	y Pier
Circle correct answer:				general description
"New" turtle (not carrying	g any tag o	r tag scar	.)	YES NO
If no, then circle correc	t category:			
(1) Recapture of same pro	ject turtle	e (within s	season or	multi-annual)
(2) Recapture of differen	t project t	urtle		
(3) Turtle has definite t	ag scars			
Tag return address (If ot	her than NM	MFS Lab/Vir	Key)	
Carapace length (straight	line)	cm		in.
Carapace width (straight	line)	cm		in.
Carapace length (over cur	ve)	cm		in.
Carapace width (over curv	e)	cm		in.
Did turtle nest? YES	UNDETER	RMINED (c:	ircle one)	
Additional remarks or dat	a (use back	if neces:	sary) <u>Ins</u>	titute of Science
Morehead City (didn't see	any number). Turtle	was in ed	ige of water when
I turned her over, unable	to obtain	carapace i	nformation	

Organization Tagging:



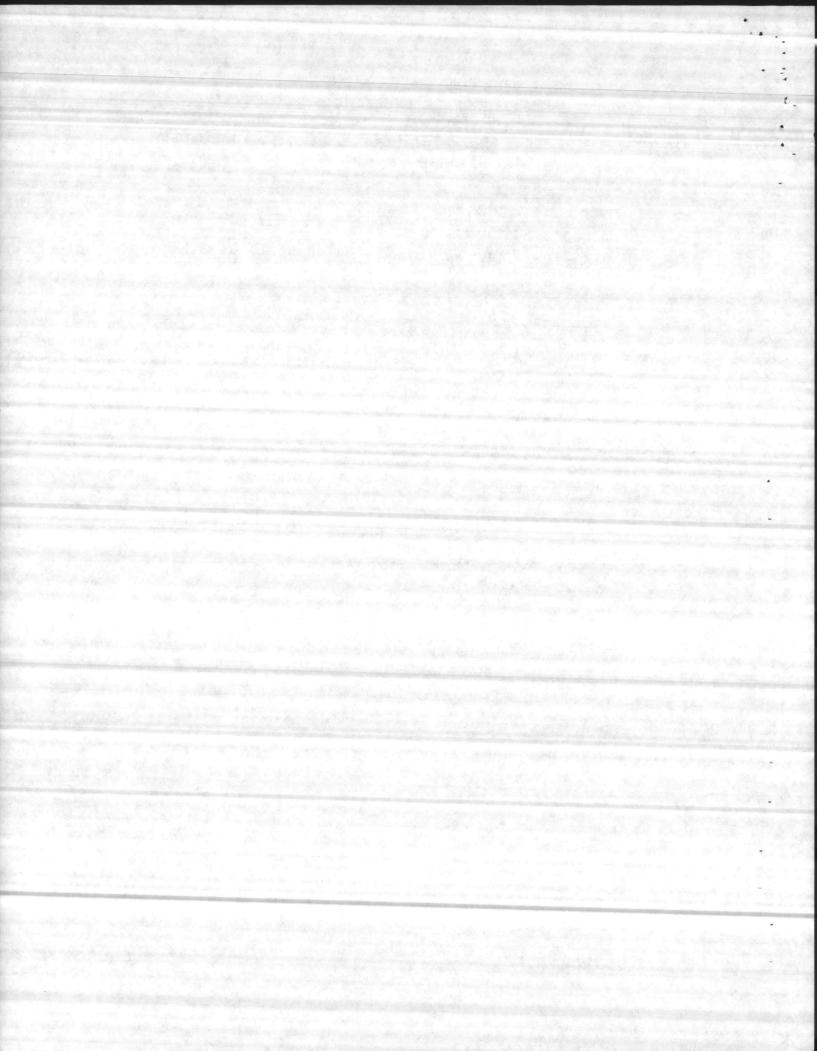
Tag Number(s) 185/186 Speci	es <u>CC</u>	Date Encountered 7/24/86
(list all tag #'s and letters) AAR		
Describe location encountered:	l.4 miles sou	ith of Risley Pier
Circle correct answer:		
"New" turtle (not carrying any t	ag or tag sc	ar) YES NO
If no, then circle correct categ	ory:	
(1) Recapture of same project tu	rtle (within	season or multi-annual)
(2) Recapture of different proje	ct turtle	
(3) Turtle has definite tag scar	S	
Tag return address (If other tha	n NMFS Lab/V	ir Key)
Carapace length (straight line)	cm	in.
Carapace width (straight line)	cm	in.
Carapace length (over curve)	cm	in.
Carapace width (over curve)	cm	in.
Did turtle nest? YES NO UND	ETERMINED (circle one)
Additional remarks or data (use	back if nece	essary)

Organization Tagging:



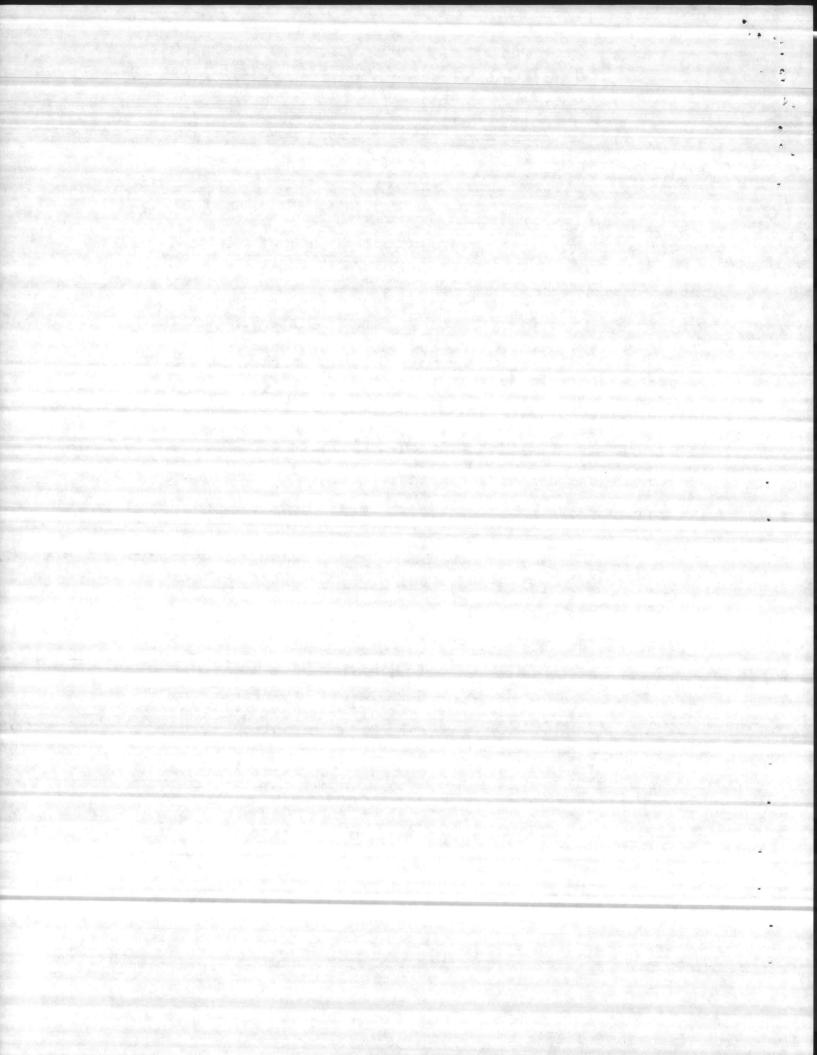
Tag Number(s) 171/172 Specie	s <u>CC</u>	Date Encountered 7/26/86
(list all tag #'s and letters) AAR		
Describe location encountered: 2	.3 miles nor	th of Risley Pier
Circle correct answer:		
"New" turtle (not carrying any ta	ng or tag sca	ar) YES NO
If no, then circle correct categor	ory:	
(1) Recapture of same project tur	tle (within	season or multi-annual)
(2) Recapture of different project	t turtle	
(3) Turtle has definite tag scars		
Tag return address (If other than	NMFS Lab/V	ir Key)
Carapace length (straight line)	82 cm	in.
Carapace width (straight line)	67 cm	in.
Carapace length (over curve)	90 cm	in.
Carapace width (over curve)	86 cm	in.
Did turtle nest? YES NO UNDE	ETERMINED (circle one)
Additional remarks or data (use h	oack if nece:	ssary)

Organization Tagging:



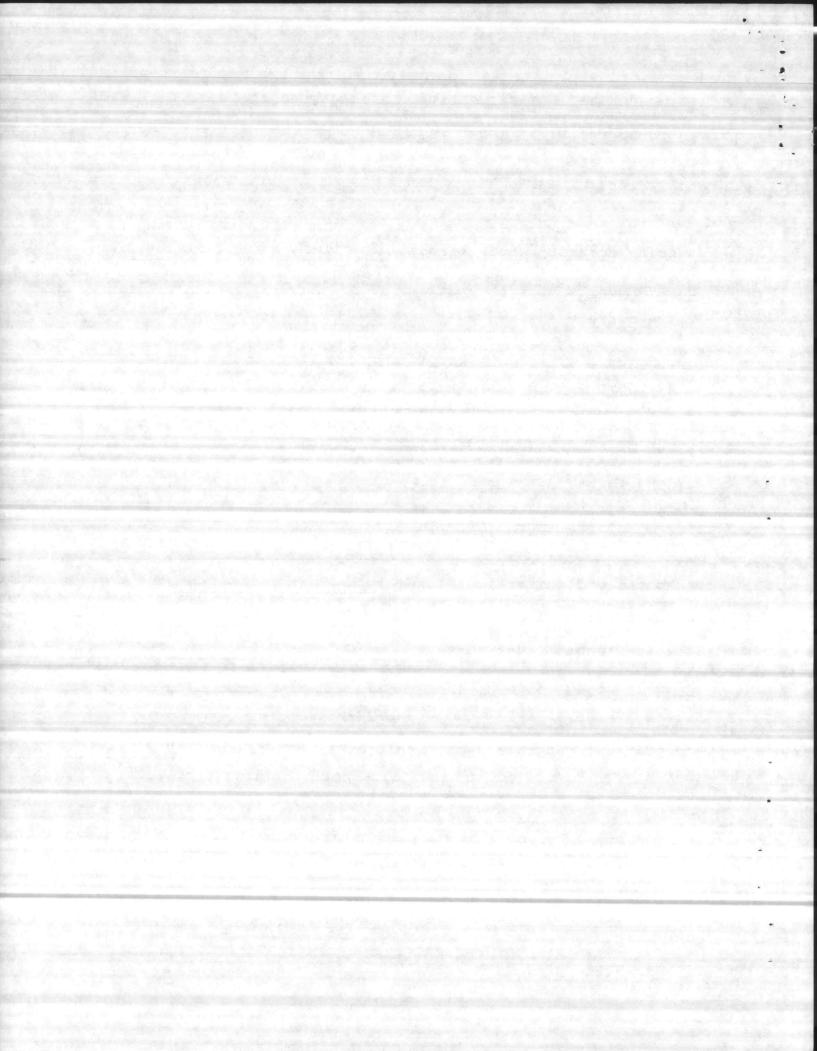
:	CC Date	Encountered 7/26/86
(list all tag #'s and letters) AAR		
Describe location encountered: 2.1 m	iles north of	Risley Pier
Circle correct answer:		
"New" turtle (not carrying any tag of	r tag scar)	YES NO
If no, then circle correct category:		
(1) Recapture of same project turtle	(within seas	on or multi-annual)
(2) Recapture of different project to	urtle	
(3) Turtle has definite tag scars		
Tag return address (If other than NM	FS Lab/Vir Ke	y)
Carapace length (straight line)	Cm	in.
Carapace length (straight line)	cm	in.
	cm	
Carapace width (straight line)	cm 7 cm	in.
Carapace width (straight line) Carapace length (over curve) 9	7 cm	ininin.
Carapace width (straight line) Carapace length (over curve) Carapace width (over curve) 95	cm 7 cm 5 cm MINED (circl	in. in. in. e one)

Organization Tagging:



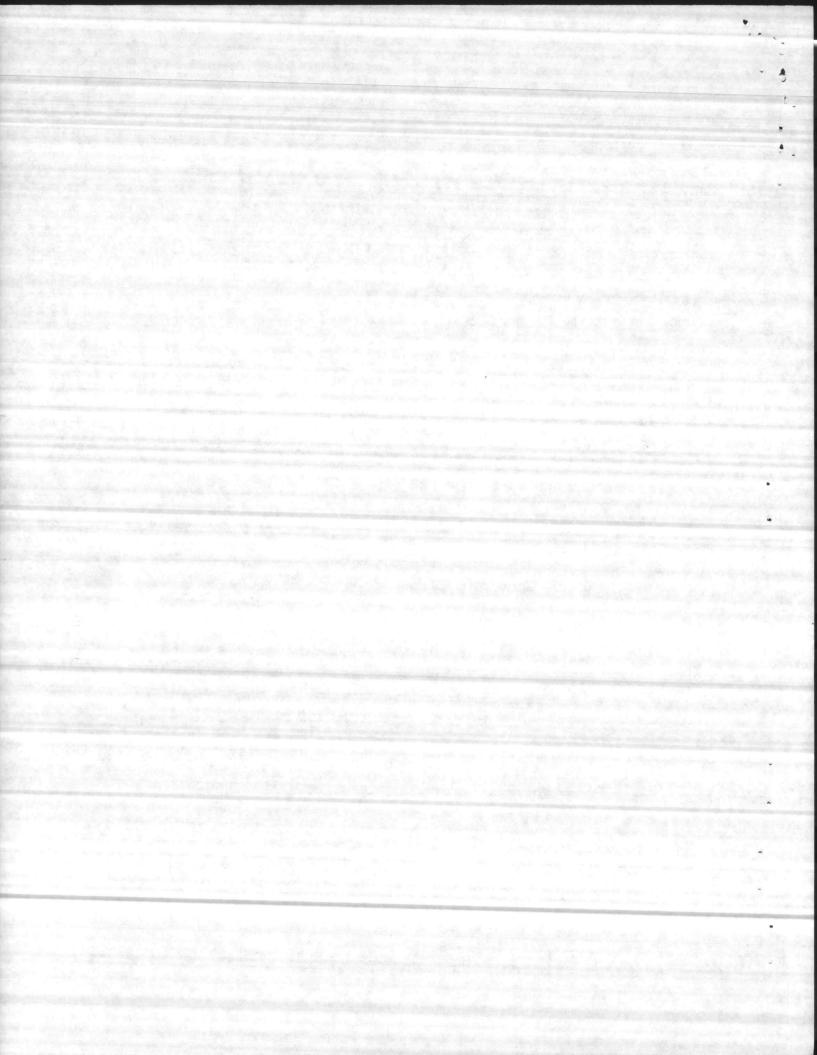
Tag Number(s) 189/190 Specie	s <u>CC</u>	Date Encountered 7/28/86
(list all tag #'s and letters) AAR		
Describe location encountered: 0	.8 miles sou	th of Risley Pier
Circle correct answer:		
"New" turtle (not carrying any ta	g or tag sca	r) YES NO
If no, then circle correct categor	ory:	
(1) Recapture of same project tur	tle (within	season or multi-annual)
(2) Recapture of different project	t turtle	
(3) Turtle has definite tag scars		
Tag return address (If other than	NMFS Lab/Vi	r Key)
Carapace length (straight line)	93 cm	in.
Carapace width (straight line)	79 cm	in.
Carapace length (over curve)	98 cm	in.
Carapace width (over curve)	83 cm	in.
Did turtle nest? YES NO UNDE	ETERMINED (c	circle one)
Additional remarks or data (use b	back if neces	ssary) Turtle laid facing
the water. Moved nest to 0.6 mil	es north of	Risley Pier.

Organization Tagging:



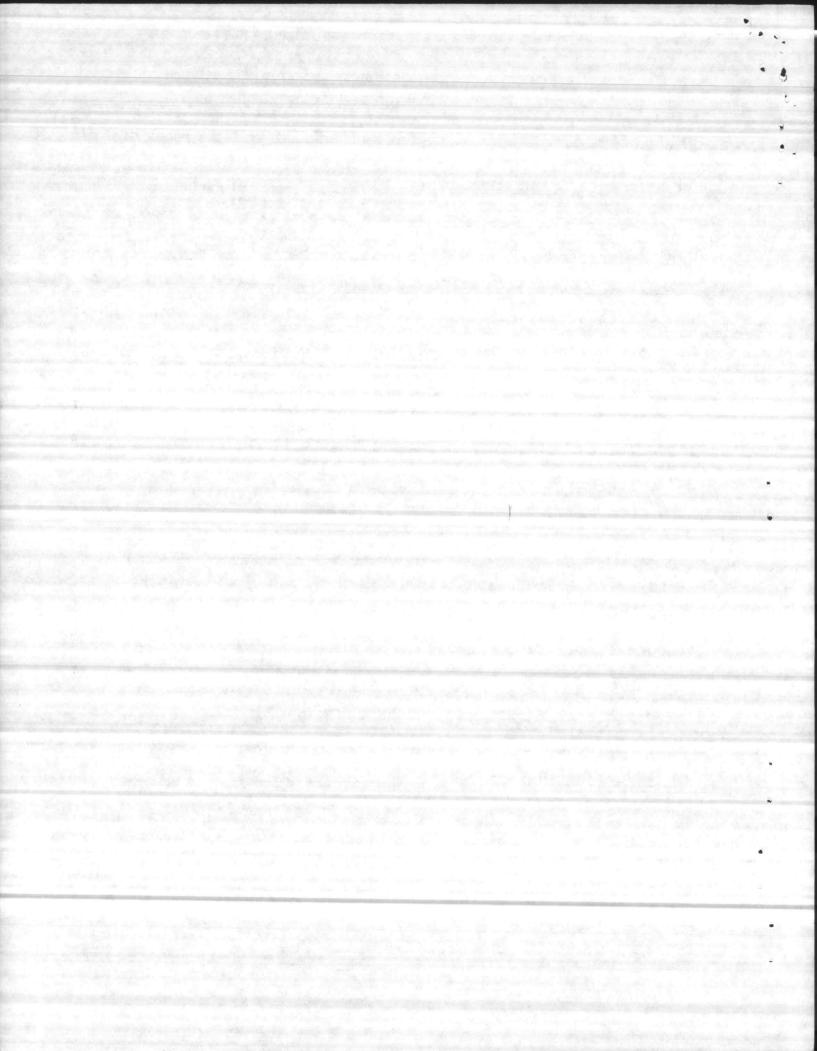
Tag Number(s) 059/060 Specie	es <u>CC</u>	_ Date E	ncountered 7/29/86
(list all tag #'s and letters) AAR			
Describe location encountered: 2	2.1 miles r	orth of F	Risley Pier
Circle correct answer:			
"New" turtle (not carrying any to	ag or tag	scar)	YES NO
If no, then circle correct categories	ory:		
(1) Recapture of same project tu	rtle (with	in season	or multi-annual)
(2) Recapture of different project	ct turtle		
(3) Turtle has definite tag scar	s		
Tag return address (If other than	n NMFS Lab	/Vir Key)	
	Land Alexander	A Property	
Carapace length (straight line)	91 cm		in.
Carapace width (straight line)	75 cm		in.
Carapace length (over curve)	102 cm		in.
Carapace width (over curve)	95 cm		in.
Did turtle nest? YES NO UND	ETERMINED	(circle	one) .
Additional remarks or data (use	back if ne	cessary)	Relocated up in
dunes 2.1 miles north of Risley	Pier. Lai	d 135 eggs	S

Organization Tagging:



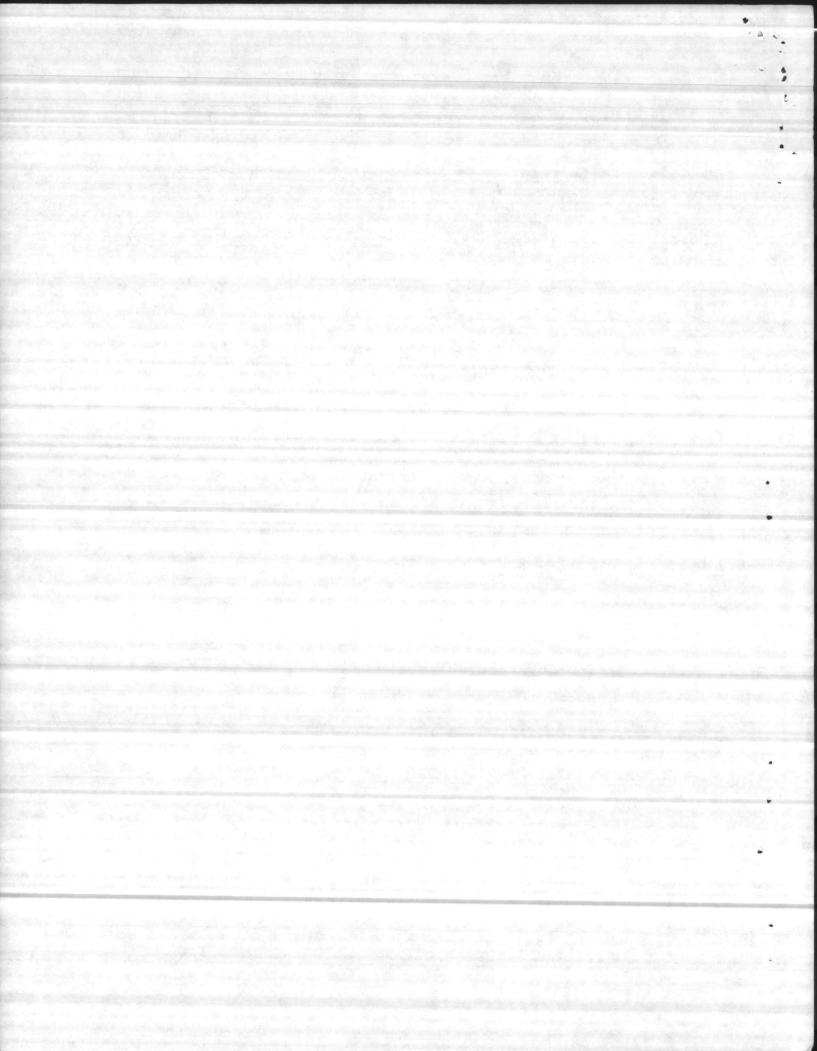
Tag Number(s)	The second secon				8/02/86
(list all tag and letters)	t's AAR				
Describe locat	on encountered:	1.7 miles	south of	Risley Pier	
Circle correct	answer:				
"New" turtle (not carrying any	tag or tag	scar)	YES	ИО
If no, then ci:	ccle correct cat	egory:			
(1) Recapture	of same project	turtle (with	in seaso	n or multi-	annual)
(2) Recapture	of different pro	ject turtle			
	of different prodefinite tag so				
(3) Turtle has		ars	o/Vir Key		
(3) Turtle has Tag return add:	definite tag so	ars han NMFS Lab)in.	
(3) Turtle has Tag return add: Carapace lengt	definite tag so	cars chan NMFS Lab	1 -		
(3) Turtle has Tag return add: Carapace lengt: Carapace width	definite tag some sess (If other to the ses)	cars chan NMFS Lab		in.	
(3) Turtle has Tag return add: Carapace lengt: Carapace width Carapace lengt:	definite tag some sess (If other to the sess of the sess of the session of the se	cars chan NMFS Lab chan NMFS Lab chan cn	1 <u></u>	in. in.	
(3) Turtle has Tag return add: Carapace lengt: Carapace width Carapace lengt:	definite tag some sess (If other to the sess	cars chan NMFS Lab chan NMFS Lab chan cn		in. in. in. in. in.	
(3) Turtle has Tag return add: Carapace lengt: Carapace width Carapace width Did turtle nes	definite tag some sess (If other to the sess	than NMFS Lab	circle	in. in. in. in. one)	if going

Organization Tagging:



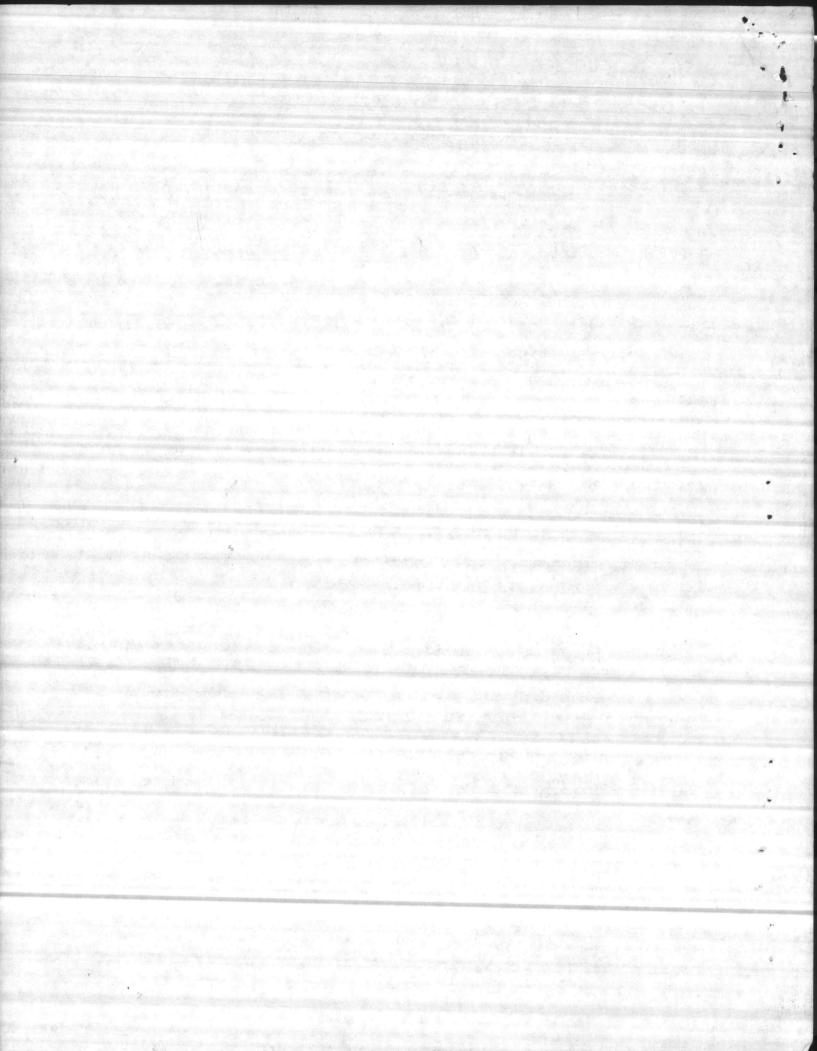
Tag Number(s)	177/178 Spec	cies <u>C</u>	C Date	Encountered8/09/86
(list all tag # and letters)	'S AAR			
- Describe locati	on encountered:	1.5 mil	es north of	Risley Pier
Circle correct	answer:			
"New" turtle (n	ot carrying any	tag or t	ag scar)	YES NO
If no, then cir	cle correct cate	egory:		
(1) Recapture o	f same project	turtle (w	ithin seaso	on or multi-annual)
(2) Recapture o	f different pro	ject turt	:le	
(3) Turtle has	definite tag sc	ars		
Tag return addr	ess (If other the	han NMFS	Lab/Vir Key	()
Carapace length	(straight line	90	cm	in.
Carapace width	(straight line)	70		in.
Carapace length	(over curve)	97	_ cm	in.
Carapace width	(over curve)	88		in.
Did turtle nest	? YES NO U	NDETERMIN	NED (circle	e one)
Additional rema	arks or data (us	e back is	necessary	Moved nest 25 ft.
into the dunes.	Ag Boline Box advances			

Organization Tagging:



Tag Number(s) 194/195 Species	CC CC	Date Encountered 8/04/86
(list all tag #'s and letters) AAR		
Describe location encountered: 0	.7 miles no	orth of Risley Pier
Circle correct answer:		
"New" turtle (not carrying any tao	g or tag so	ear) YES NO
If no, then circle correct catego	ry:	
(1) Recapture of same project tur	tle (within	n season or multi-annual)
(2) Recapture of different projec	t turtle	and the second s
(3) Turtle has definite tag scars		
Tag return address (If other than	NMFS Lab/	Vir Key)
Carapace length (straight line) _	87 cm	in.
Carapace width (straight line) _	66 cm	in.
Carapace length (over curve)	97 cm	in.
Carapace width (over curve)	87 cm	in.
Did turtle nest? YES NO UNDE	TERMINED	(circle one)
Additional remarks or data (use b	ack if nec	essary) Moved nest to 0.6
miles north of Risley Pier.		

Organization Tagging:



SEA TURTLE INVENTORY

for

SUMMER AND FALL 1987

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

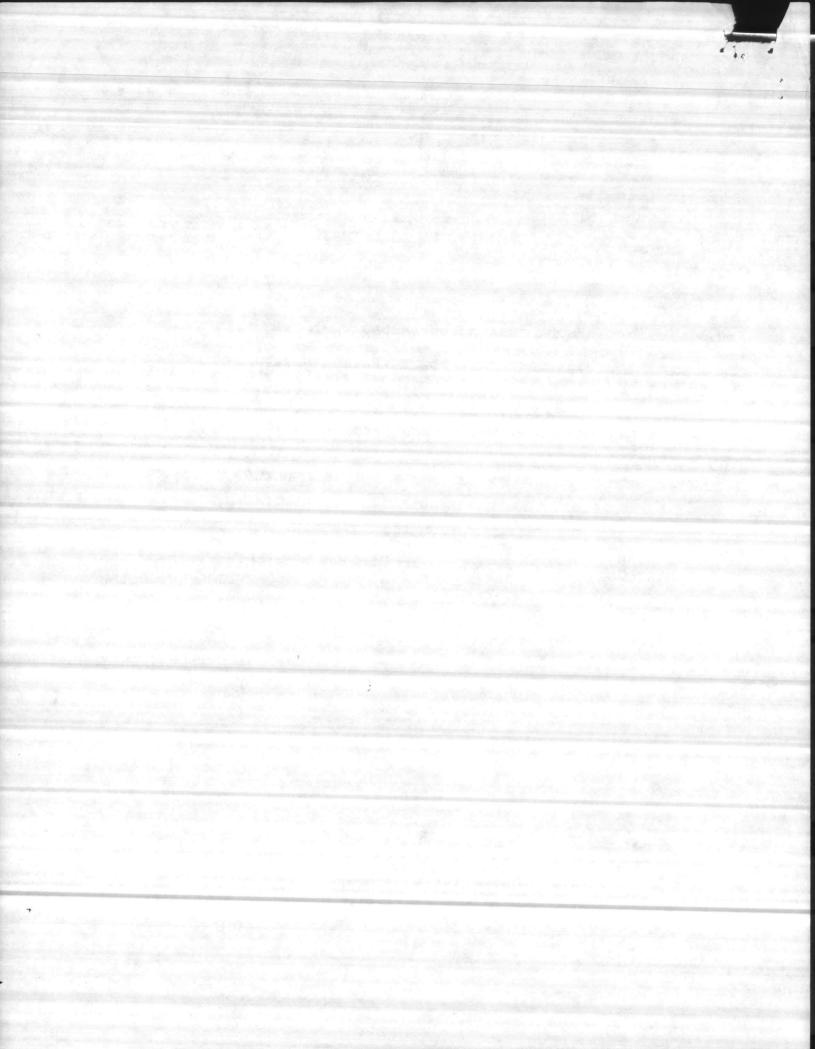
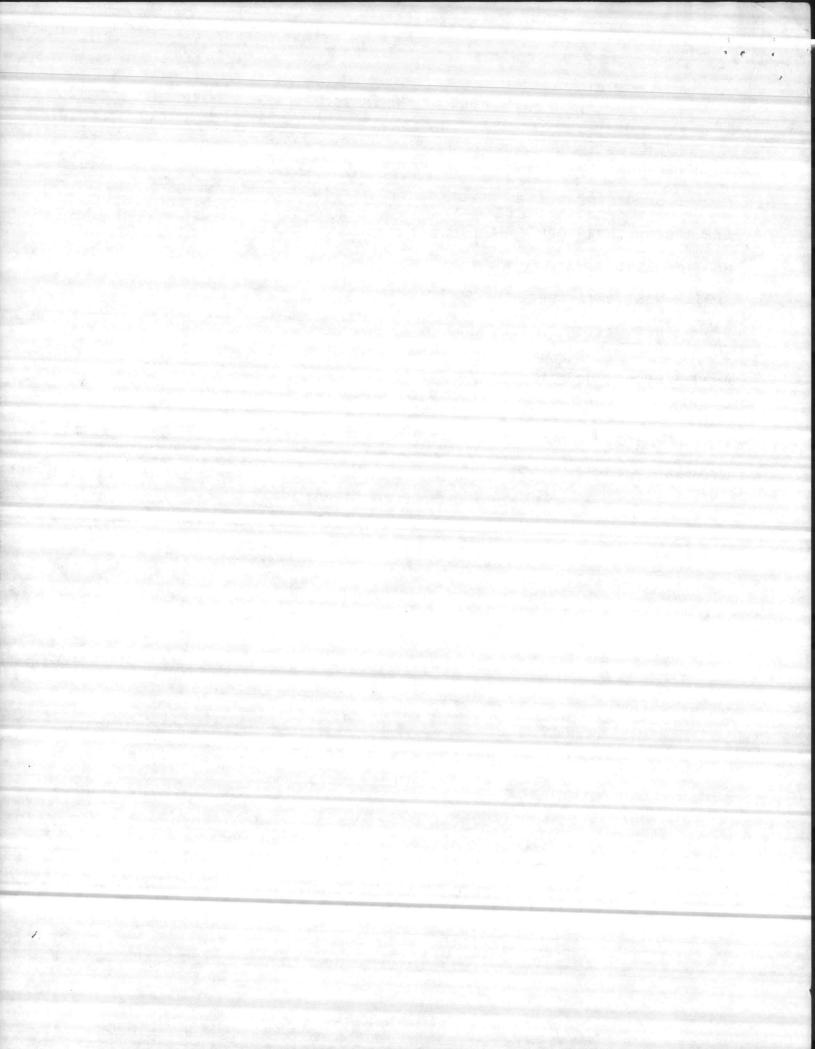


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INTRODUCTION

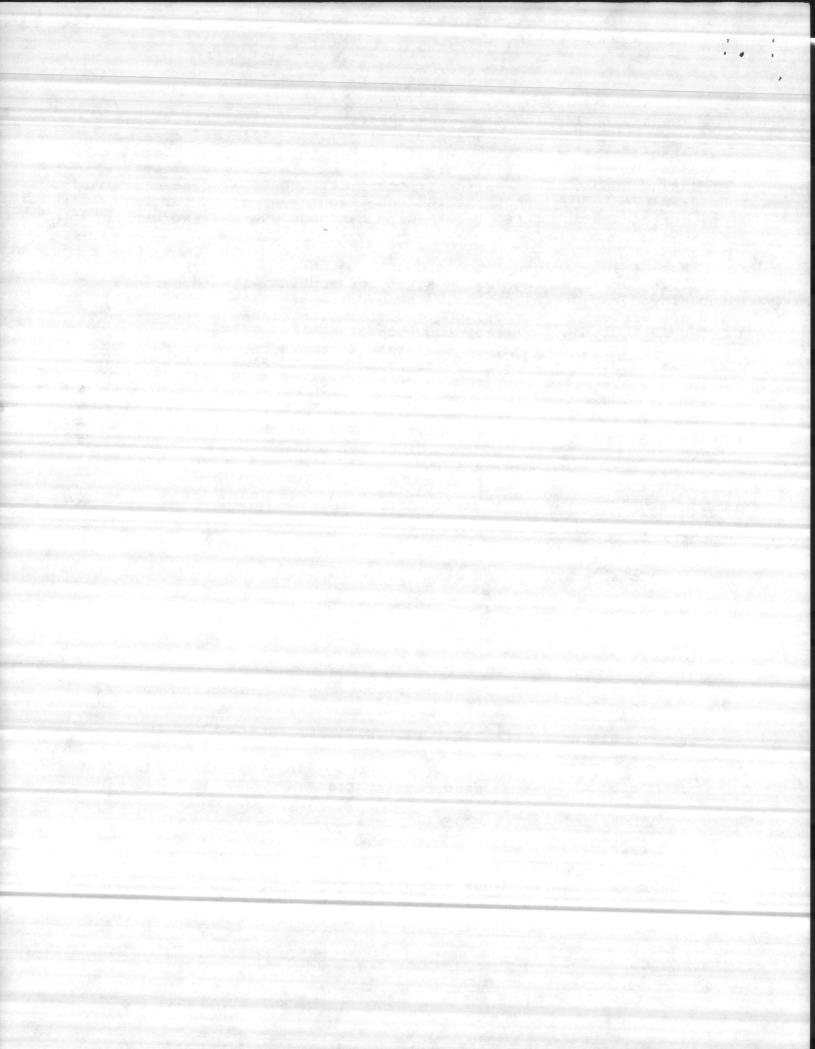
The sea turtle inventory for 1987 is a continuation of past efforts by Natural Resources and Environmental Affairs Division, Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune, North Carolina, to protect sea turtle nesting activities at Onslow Beach. The sea turtle inventory consists of several programs including: nest protection, tagging of adult turtles, collecting nesting data, determining hatching 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, or 15 days after 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 sea turtle program are as follows:

- a. Number of nests 24.
- b. Nest protection from predators, $\underline{22} \underline{2}$ nests found while hatching.
 - c. Tagging of adults number of turtles tagged 11.
 - d. Total number of crawls 125.
 - e. Total number of eggs 2979.
- f. Total number of eggs lost due to nest being damaged by vehicle $\underline{25}$.
- g. Total number of hatchlings lost due to nest being damaged by a vehicle $\underline{3}$.
- h. Total number of hatchlings that emerged or were released from nests $\underline{2128}$.
 - i. Total of turtles dead in nest 144.
 - j. Number of tag returns 17.
 - k. Number of stranded turtles 5.

There were 5 strandings and stranding reports were submitted to the North Carolina Wildlife Resources Stranding Network Coordinator. The carcasses of the stranded turtles were buried on the beach.



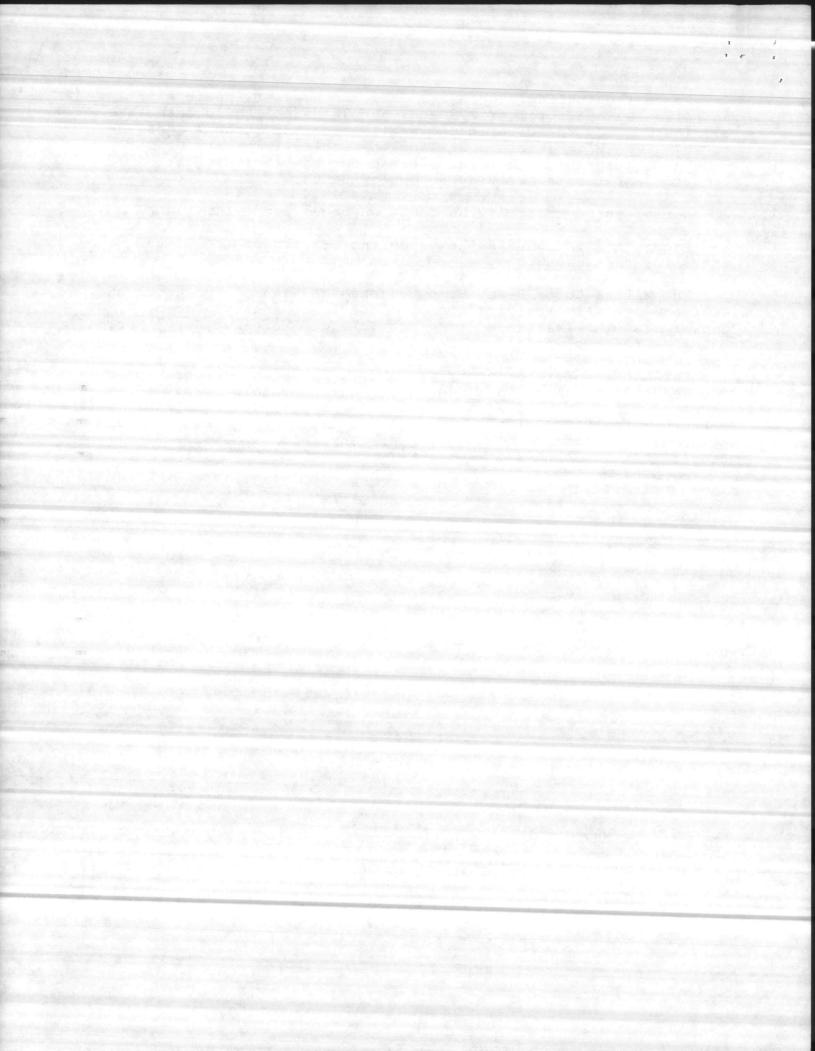
Percent hatchling success is 71%. If however, nests #118 and #123, with a total of 279 eggs and 0% hatchling success, are eliminated from the data, the overall hatchling success increases to 79%. These were late nests and the cooler temperature hindered embryo development. The enclosed map on page 15 indicates locations of turtle activity on Onslow Beach.

Aerial survey data may be found on pages 14a - 14i.

Pages 9a - 9b contain the hatchling results of individual nests for the season.

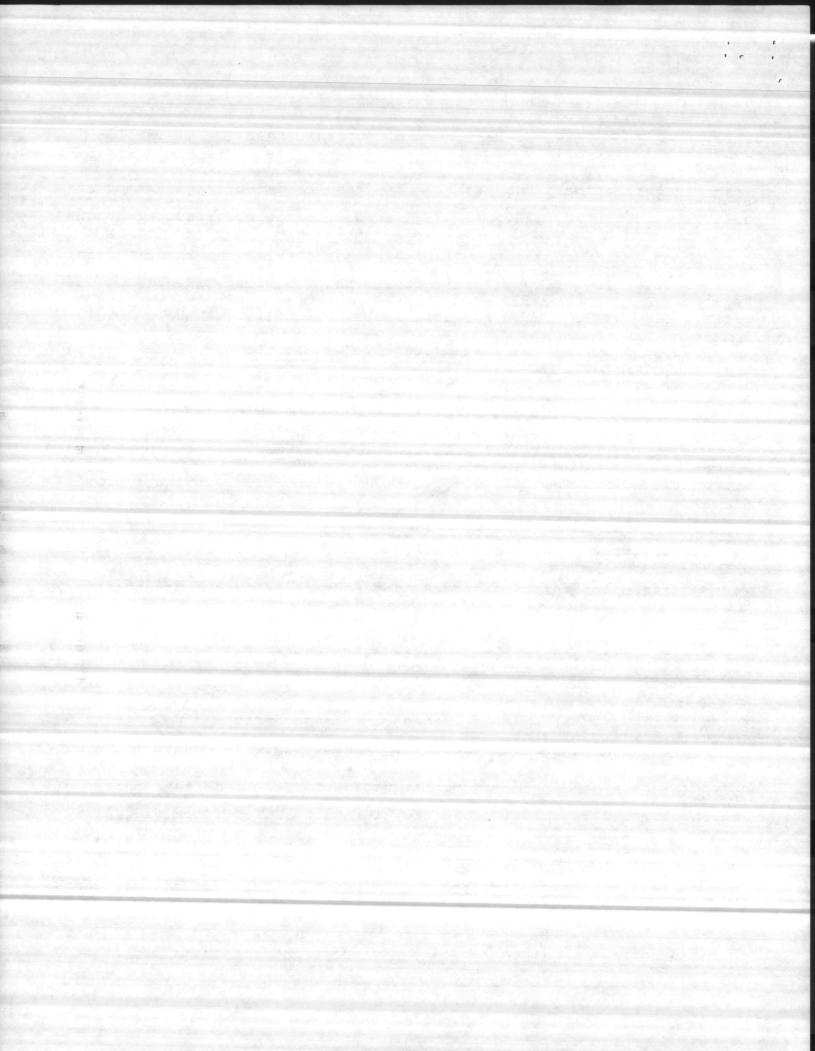
The Marine Corps Base, Camp Lejeune and Natural Resources and Environmental Affairs Division give special thanks to Doctor F. J. Schwartz at the Institute of Marine Science, Morehead City, North Carolina for his advice and services.

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).



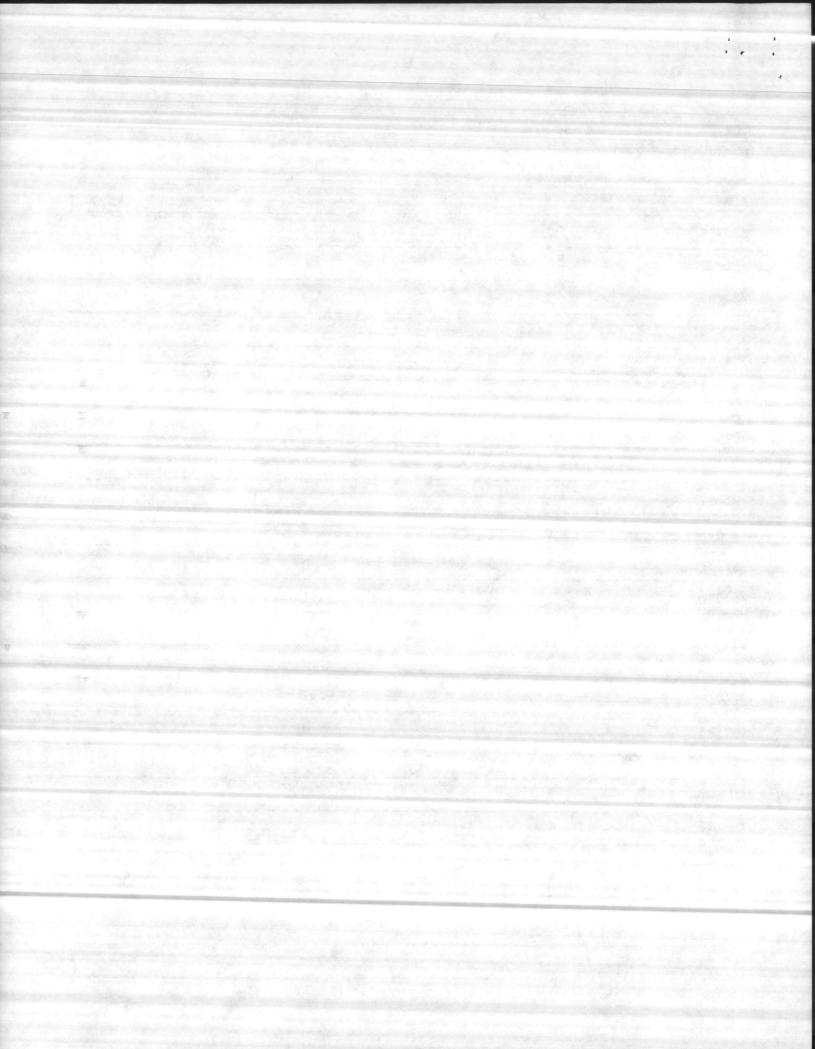
GROUND SURVEY NUMBER

Date	Crawl/No Nest	Crawl/Nest	Total
5/22/87	1	0	1
5/26/87	1	0	1
5/30/87	3	0	. 3
5/31/87	4	0	4
6/5/87	4	1	5
6/8/87	. 2	0	2
6/10/87	1	0	1
6/11/87	1	0	1
6/12/87	1	0	1
6/17/87	3	0	3
6/18/87	1	0	1
6/23/87	· 3	0	3
6/25/87	1	 0	1
6/26/87	3	0	3
6/27/87	1	0	1
6/28/87	2	0	2
6/29/87	1	1	2
6/30/87	1	0	1
7/2/87	2	0	2
7/6/87	2	0	2
7/7/87	1	1	2
7/8/87	0	2	2
7/12/87	2	0	2
7/13/87	3	0	3
7/15/87	2	1	3



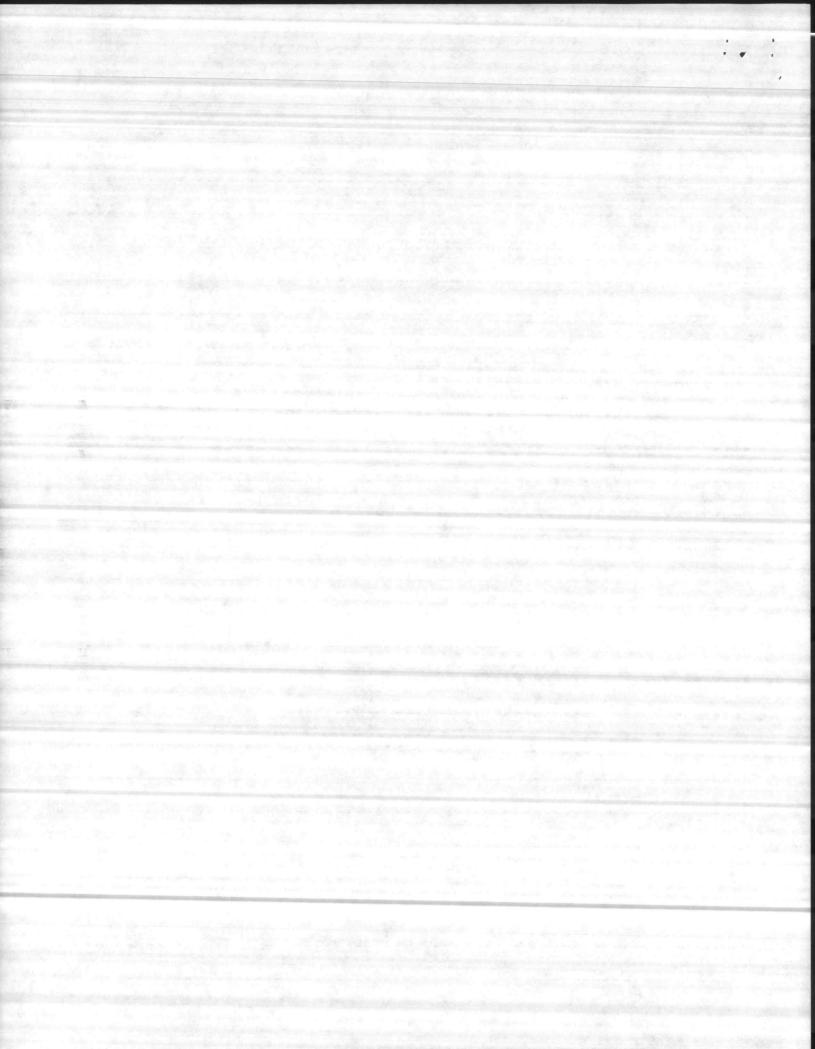
GROUND SURVEY NUMBER

Date	Crawl/No Nest	Crawl/Nest	Total
7/16/87	2	0	2
7/18/87	1	0	1
7/20/87	2	0	2
7/21/87	0	1	1
7/24/87	0	1	1
7/26/87	3	1	4
7/27/87	8	1	9
7/28/87	3 3	1	4
7/29/87	0	1	1
7/30/87	4	0	4
7/31/87	4	1	5
8/1/87	0	2	2
8/5/87	1	0	1
8/6/87	1	1	2
8/7/87	1	0	1:
8/8/87	4	0	4
8/9/87	4	2	6
8/10/87	1	0	1
8/11/87	5	1	6
8/12/87	5	0	5
8/13/87	0		1
8/15/87	1	0	1
8/17/87	1	0	1
8/20/87	0	1	1
8/22/87	2	0	2



GROUND SURVEY NUMBER

Date	Crawl/No Nes	st	Crawl/Nest	Total
8/24/87	0		1	1
8/25/87	1			1
8/27/87	0 .		1	1
*7/11/87	1		0	11
	v i			
* LATE ENTRY				

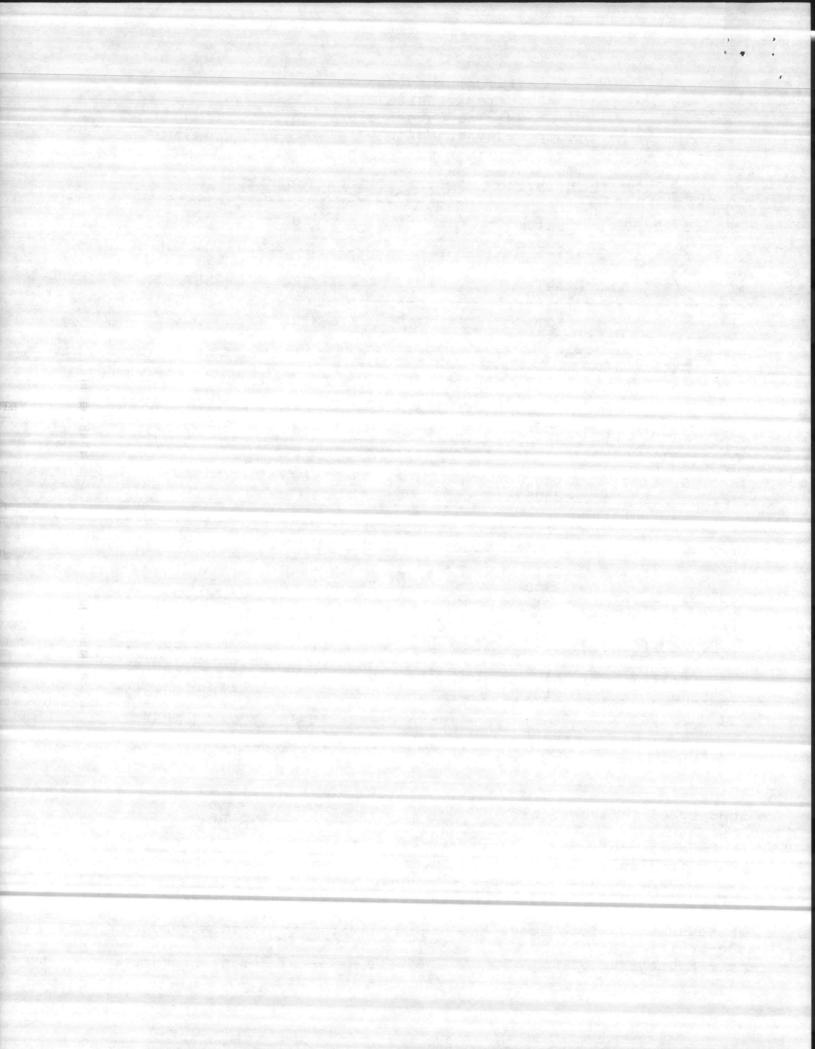


Marine Corps Base Camp Lejeune, North Carolina

Crawl No.	Date	Time Crawl Occurred	Active Nest ()	Location *	Comments**
1	5/22/87	EST. 0322		2.9 MSRP	NO NEST
2	5/26/87	EST. 0600		2.7 MSRP	STARTED NEST BUT DIDN'T FINISH NO EGGS
3	5/30/87	EST. 2220	eren er en er	3.1 MSRP	NO NEST
4	5/30/87	EST. 2220		3.0 MSRP	NO NEST
5	5/30/87	EST. 2220		2.5 MSRP	DUG NEST AND EGG . CAVITY, BUT NO EGGS
6	5/31/87	EST. 2305		1.2 MSRP	DUG NEST AND EGG CAVITY, BUT NO EGGS
. 7	5/31/87	EST. 2305		1.0 MSRP	STARTED NEST, BUT DIDN'T FINISH
8	5/31/87	EST. 2305		0.6 MSRP	NO NEST
9	5/31/87	EST. 2345		0.1 MSRP	NO NEST
10	6/5/87	EST. 0126	140 eggs	0.6 MNRP	TWO EGGS BROKEN - MOVED 138 EGGS UP ON DUNE AT 0.6 MNRP
11	6/5/87	EST. 0126		2.0 MNRP	NO NEST

Summary of Instructions:

^{*} Location measured to nearest tenth of mile to the north or south of Risely Pier. Record known or estimated time when crawl was thought to have occurred. Conduct nightly surveys 2100-0500 during scheduled irregular hours or 0800-1630 during regularly scheduled hours when tide is low. Traverse the beach by four-wheel-drive vehicle above the high tide line to avoid stranding the vehicle.

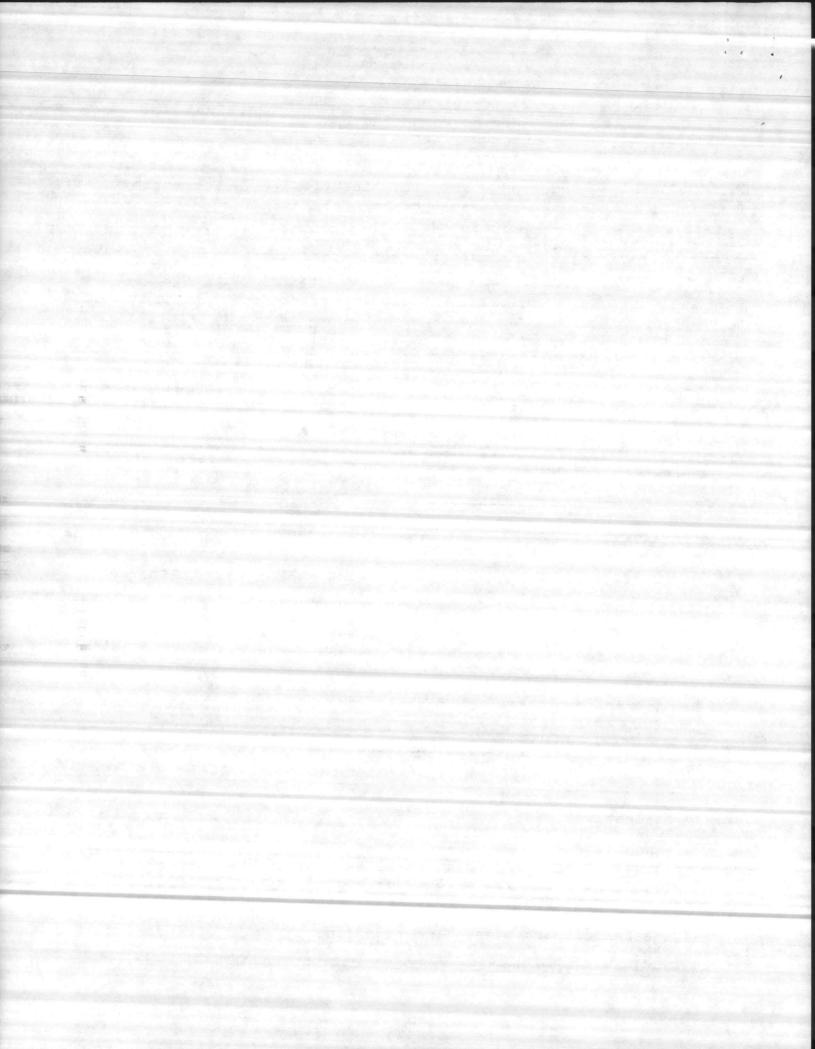


Camp Lejeune, North Carolina

		Time Crawl Occurred		Location *	Comments**
12	6/5/87	EST. 0222		2.7 MSRP	NEST NOT COMPLETED
13	6/5/87	EST. 0222		2.0 MNRP	NO NEST
14	6/5/87	EST. 0222		2.2 MNRP	NO NEST
15	6/8/87	EST. 0409		1.0 MNRP	EXTENDED CRAWL NO NEST
16	6/8/87	EST. 0409		2.0 MNRP	EXTENDED CRAWL BELOW THE DUNE NO NEST
	6/10/87	0012		3.6 MSRP	SAW TURTLE ENTERING THE WATER, NO NEST
		2328		1.9 MNRP	TURTLE DISTURBED WHILE NESTING, NO EGGS LAID. TAG# 817 IMS, MOREHEAD CITY
19	6/17/87	EST. 0157	••••••••••••••••••••••••••••••••••••••	1.8 MNRP	NO NEST
20	6/17/87	0345		2.6 MSRP	DUG NEST AND EGG CAVITY, NO EGGS TAG: MFS MIAMI FL.
21	6/17/87	EST. 0350		2.8 MSRP	NO NEST
22	6/18/87	EST. 0355		1.2 MSRP	NO NEST

Summary of Instructions:

^{*} Location measured to nearest tenth of mile to the north or south of Risely Pier. Record known or estimated time when crawl was thought to have occurred. Conduct nightly surveys 2100-0500 during scheduled irregular hours or 0800-1630 during regularly scheduled hours when tide is low. Traverse the beach by four-wheel-drive vehicle above the high tide line to avoid stranding the vehicle.

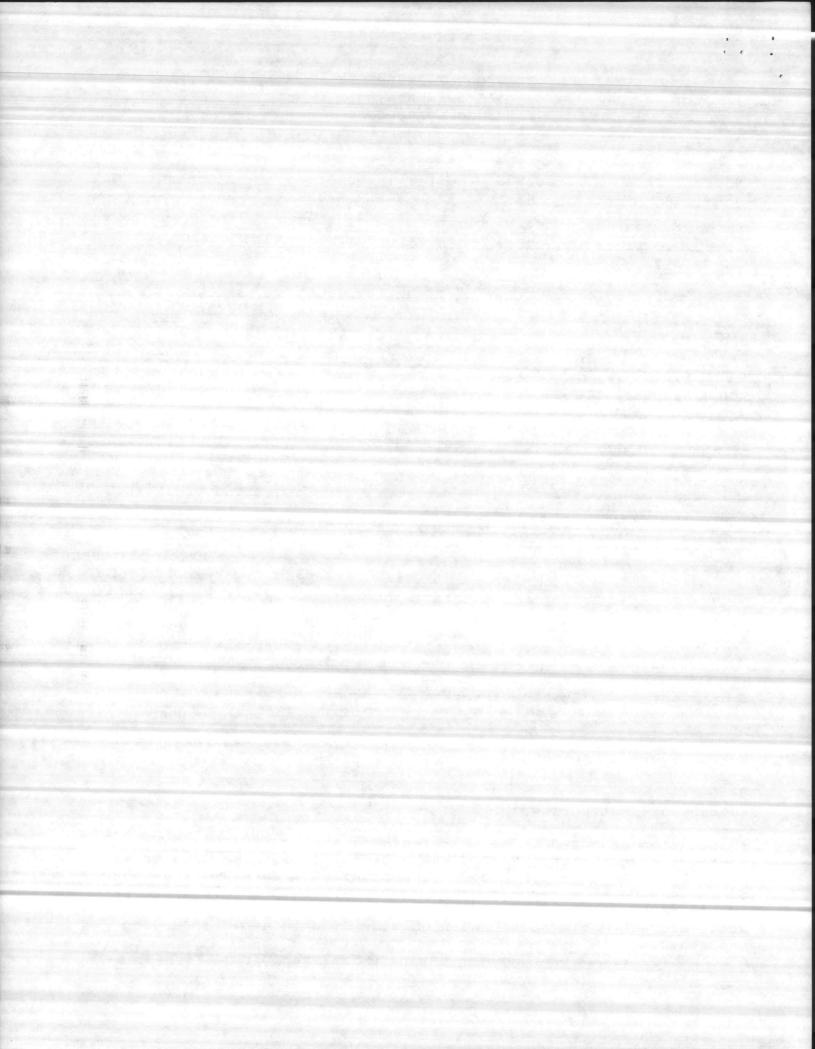


Marine Corps Base Camp Lejeune, North Carolina

Crawl No.	Date	Time Crawl Occurred	Active Nest ()	Location *	Comments **
	6/23/87	EST. 0130		1.6 MSRP	DUG NEST AND EGG CAVITY, NO EGGS LAID
24	6/23/87	EST. 0400		3.4 MNRP	NO NEST
25	6/23/87	EST. 0400		3.5 MNRP	NO NEST
26	6/25/87	EST. 2233		1.8 MNRP	TURTLE DISTURBED WHILE NESTING, NO EGGS, TAG AAR-071
27	6/26/87	EST. 2100		1 MSRP	NO NEST
28	6/26/87	EST. 2300		2.4 MNRP	NO NEST
29	6/26/87	EST. 2300		2.9 MNRP	NO NEST
30	6/27/87	2321		1.2 MSRP	TURTLE DISTURBED WHILE NESTING, NO EGGS TAG AAR 196/19
31	6/28/87	0440		3.8 MSRP	TURTLE OBSERVED ENTERING OCEANM NO NEST TAG AAR-128
32	6/28/87	EST. 2340		3.4 MNRP	NO NEST
33	6/29/87	EST. 2300		3.4 MNRP	NO NEST

Summary of Instructions:

^{*} Location measured to nearest tenth of mile to the north or south of Risely Pier. Record known or estimated time when crawl was thought to have occurred. Conduct nightly surveys 2100-0500 during scheduled irregular hours or 0800-1630 during regularly scheduled hours when tide is low. Traverse the beach by four-wheel-drive vehicle above the high tide line to avoid stranding the vehicle.

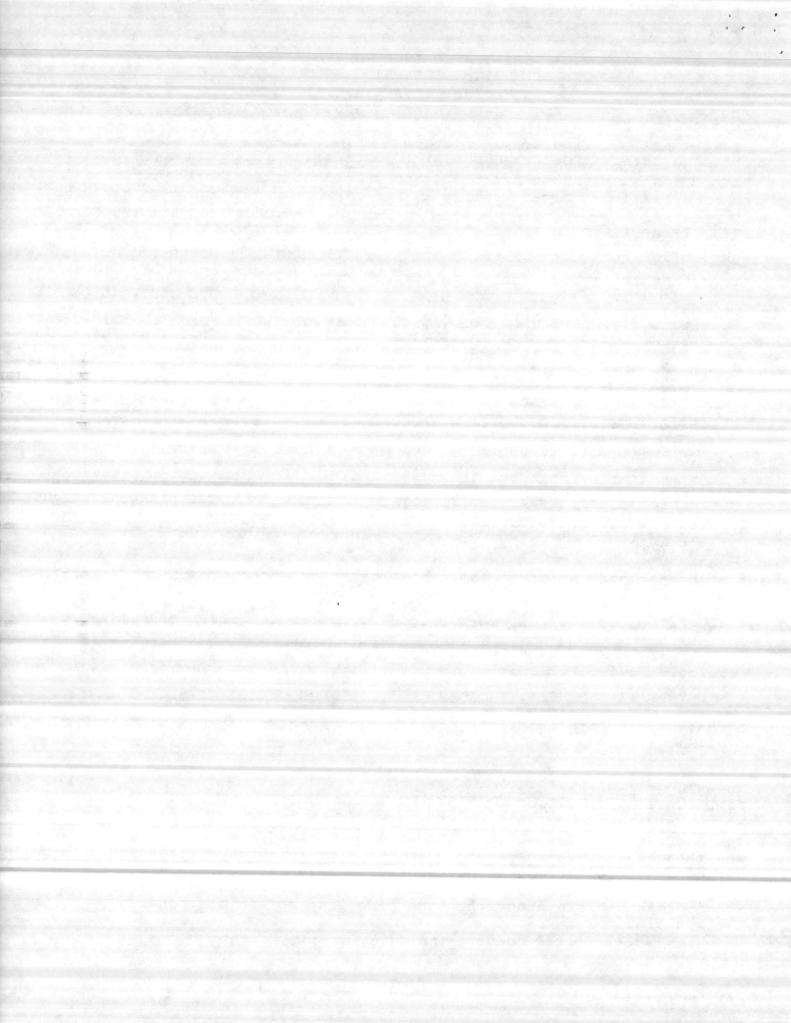


Marine Corps Base Camp Lejeune, North Carolina

Crawl No.	Date	Time Crawl Occurred	Active Nest ()	Location *	Comments **
34	6/29/87	2350	128 eggs	0.8 MNRP	MOVED TO 0.5 MNRP TAG AAR-199/200
35	6/30/87	EST. 0130		2.5 MNRP	NO NEST
36	7/2/87	EST. 0030		2.5 MSRP	DUG NEST AND EGG CAVITY, NO EGGS
37	7/2/87	0045		2.6 MSRP	TURTLE OBSERVED SAR ENTERING OCEAN, NO ON LE NEST, TAG AAR-119/ FLIPE
38	7/6/87	0250		1.0 MSRP	NO NEST, TAG AAR-105, REPLACED MISSING TAG WITH AAR-201
39	7/6/87	2210		0.5 MSRP	NO NEST
40	7/7/87	0003	120 eggs	.35 MSRP	MOVED TO 2.1 MSRP TAG #AAR-202/203
41	7/7/87	0120	-	2.6 MSRP	NO NEST
42	7/8/87	0110	138 eggs	· 2.1 MNRP	MOVED UP ON DUNE AT 2.1 MNRP. SAME TURT AS CRAWL #38.
43	7/8/87	0130	188 eggs	2.0 MSRP	GREEN TURTLE, NO TAGS, ADD AAR-204/20 RELOCATE TO 2.1 MNRP
44	7/11/87	EST. 0400		2.7 MNRP	CRAWL

Summary of Instructions:

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Marine Corps Base Camp Lejeune, North Carolina

Crawl No.	Date	Time Crawl Occurred	Active Nest ()	Location *	Comments **
45	7/12/87	EST. 2350		1.3 MSRP	CRAWL
46	7/12/87	EST. 2350		3.1 MNRP	NEST ATTEMPT
47	7/13/87.	EST. 2200		0.55 MNRP	CRAWL, 38 INCHES
48	7/13/87	EST.		0.55 MNRP	CRAWL, 34 INCHES 25' FROM FC 47
49	7/13/87	EST. 2300		1.75 MNRP	34" CRAWL, TWO NEST ATTEMPTS
50	7/15/87	0239		0.85 MSRP	36" CRAWL, NO NEST ATTEMPT
51	7/15/87	0325	139 eggs	1.45 MSRP	36" CRAWL, RELOCATED 2.1 MNRF
52	7/15/87	EST. 2300		2.4 MNRP	32" CRAWL, NEST ATTEMPT
53	7/16/87	EST. 0005		2.0 MSRP	36" CRAWL, TWO NEST ATTEMPTS, ONE EGG CAVITY
54	7/16/87	2300		3.3 MSRP	34" CRAWL, TWO NEST ATTEMPTS
55	7/18/87	EST.		2.7 MNRP	CRAWL

Summary of Instructions:

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^{**} AAR prefixes on tag numbers indicate National Marine Fisheries Service.

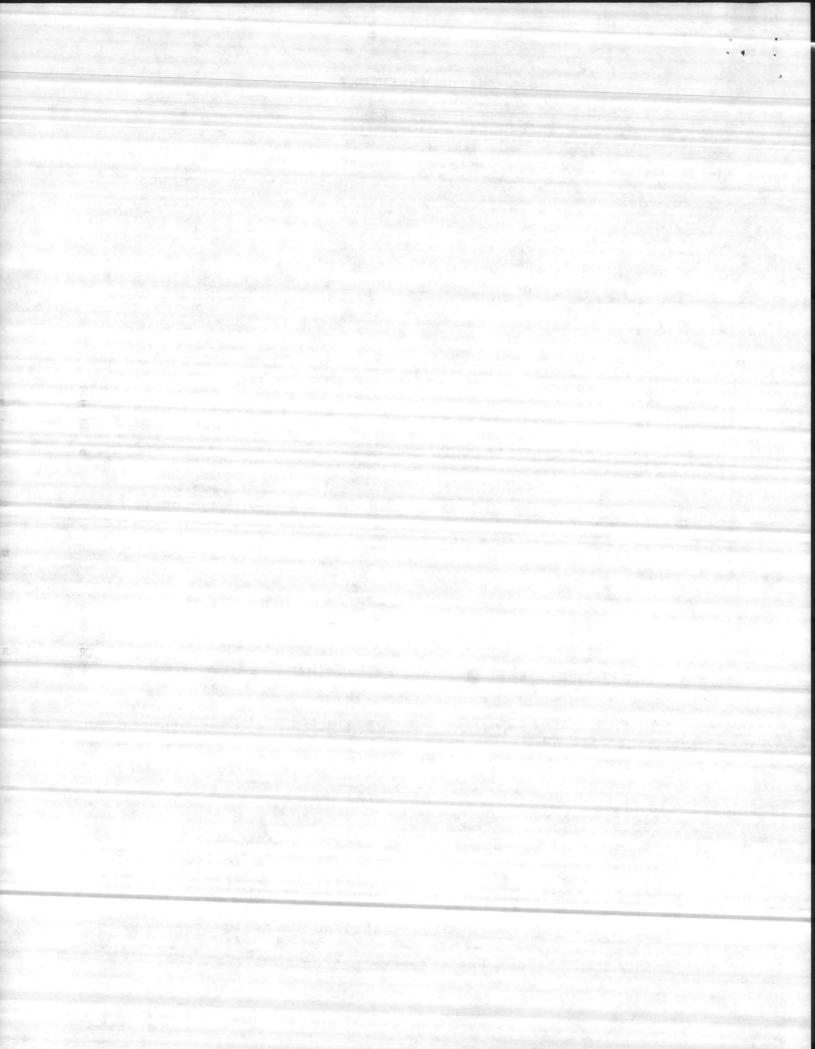
SEA-TURTLE INVENTORY (Crawl Data) Marine Corps Base Camp Lejeune, North Carolina

Crawl No.	Date	Time Crawl Occurred	Active Nest ()	Location *	Comments **
56	7/20/87	EST. 0015		2.05 MSRP	36" TRACK HIGH INTP DUNE. NEST ATTEMPT W/CAVITY
57	7/20/87	EST. 0320		3.01 MNRP	34" TRACK WITH EXTENSIVE NEST DIGGING
58	7/21/87	2350	192 eggs	2.05 MSRP	42" TRACK - GREEN TURTLE TAGGED WITH AAR 207/208 RELOCATE 2.1 _M
59	7/24/87	2255	120 eggs	0.1 MNRP	35" TRACK, NO TAGS ADD 206 & 209 RELOCATE 1.8 MNRP
60	7/26/87	0130	146 eggs	0.6 MSRP	36" TRACK, NO TAGS ADD AAR 211 & 212 RELOCATED 1.8 MNRP
61	7/26/87	2200	o ac Signatur	0.7 MSRP	TURTLE OBSERVED OUT OF SURF, BUT RETURNED.
62	7/26/87	2215		0.6 MSRP	33" CRAWL, DISTURBED BY POV, NO TAGS NOTED.
63	7/26/87	2230		0.2 MNRP	33" CRAWL, TURTLE DISTURBED BY EXTENSIVE ATV ACTIVITY.
64	7/27/87	EST. 0100		2.8 MSRP	33" CRAWL, CLOSE TO FC-65, NO NEST ATTEMPT.
65	7/27/87	EST. 0100		2.8 MSRP	30" CRAWL, CLOSE TO FC-64, NO NEST ATTEMPT.
66	7/27/87	EST. 0130		2.8 MSRP	33" CRAWL WITH NEST ATTEMPT AND 14" CAVITY

Summary of Instructions:

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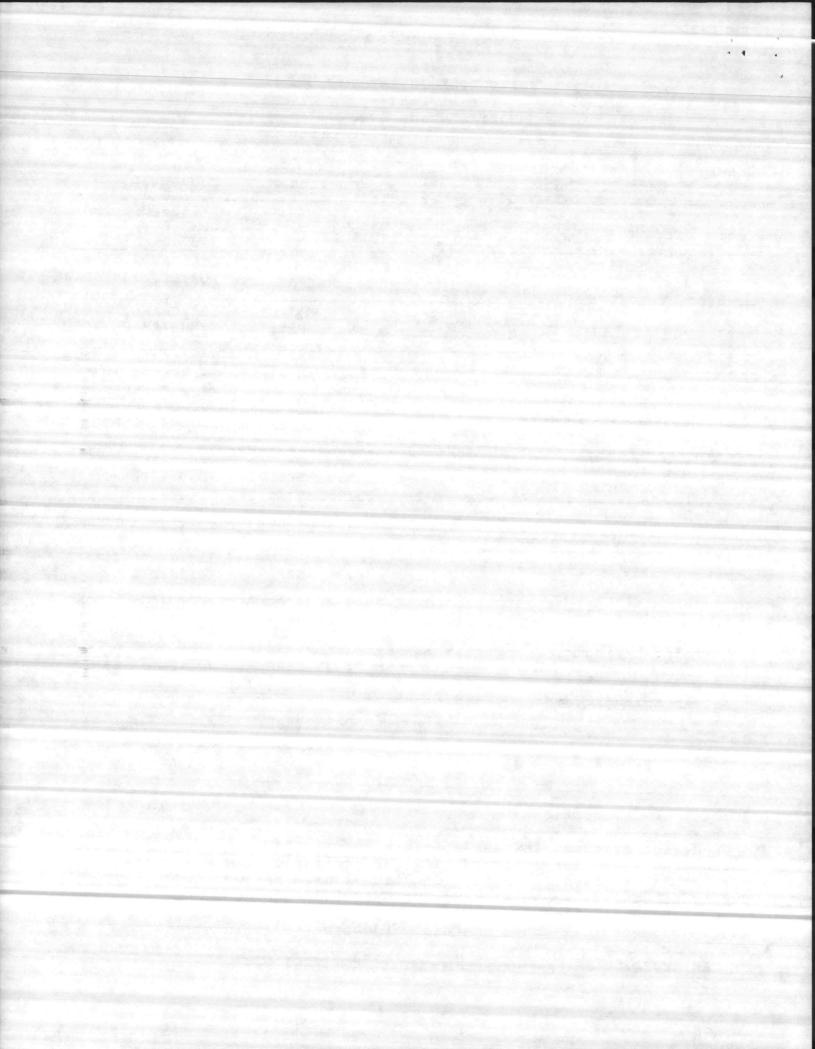
Camp Lejeune, North Carolina

Crawl No.	Date	Time Crawl Occurred	Active Nest ()	Location *	Comments **
67	7/27/87	EST. 0100		2.6 MNRP	TRIED TO CLIMB DUNE BUT COULDN'T 31" CRAWL.
68	7/27/87	EST. 0100		3.6 MNRP	VEHICLE SCARED TURTLE, 33" CRAWL
69	7/27/87			0.7 MNRP	33" CRAWL, SPOOKED BY BEACH PATROL
70	7/27/87		50 eggs	2.0 MNRP	33" CRAWL TAG# 817, RELOCATED IN DUNE AT 2.0 MNRP
71	7/27/87	2349		3.35 MSRP	32" CRAWL, TAG# 120, SPOOKED TURTLE
72	7/27/87	EST. 2255		3.5 MSRP	32" CRAWL, NO NEST ATTEMPT
73	7/28/87	EST. 0000		1.6 MSRP	36" CRAWL, SPOOKED NO NEST ATTEMPT
74	7/28/87	EST. 0000		2.0 MSRP	33" CRAWL, NEST ATTEMPTED.
75	7/28/87		124 eggs	1.65 MSRP	33" CRAWL, TAGS 119 & 120, RELOCATED 2.0 MNRP, RETURN OF FC#3
76	7/28/87	0315		2.35 MSRP	NO NEST ATTEMPT
77	7/29/87	0135	99 eggs	0.55 MSRP	35" CRAWL, TAG AAR 213 AND 214

Summary of Instructions:

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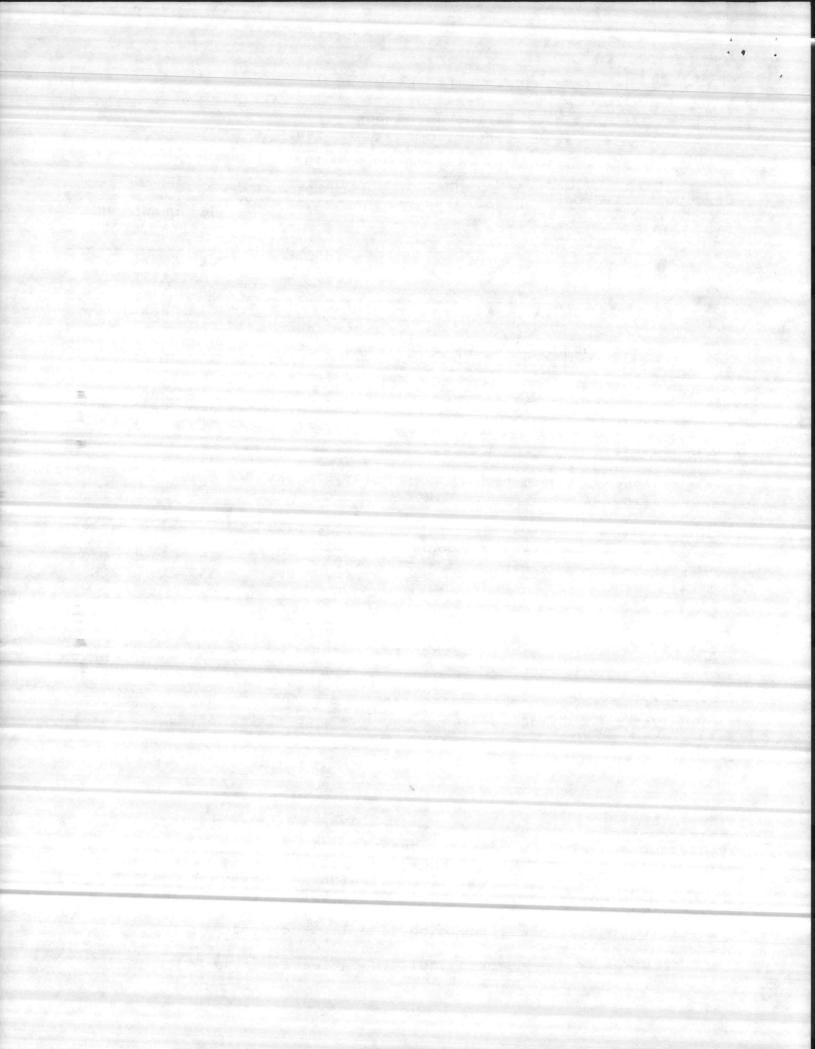


Camp Lejeune, North Carolina

Crawl No.	Date	Time Crawl Occurred	Active Nest ()	Location *	Comments **
78	7/30/87	EST. 0230		2.4 MNRP	36" CRAWL, NO NEST ATTEMPT
79	7/30/87	EST.		1.85 MNRP	41" CRAWL, NO NEST ATTEMPT
80	7/30/87	EST.		2.0 MNRP	41" CRAWL, TAG AAR-105
81	7/31/87	0015		2.2 MNRP	RETURN OF N#42 NO NEST ATTEMPT TAG # AAR-105
82	7/31/87	0030		2.5 MSRP	32" CRAWL, NO NEST ATTEMPT
83	7/31/87	0001		2.8 MSRP	32" CRAWL, SMALL TREES IN THE WAY
84	7/30/87	2345		2.85 MSRP	32" CRAWL, SMALL TREES IN THE WAY
85	7/31/87	0205	121 eggs	2.7 MSRP	35" CRAWL, TAG AAR 215 & 216, RELOCATED 2.15 MNRP
86	7/31/87	0430		2.8 MNRP	34" CRAWL, AT BASE OF CLIFF
87	8/1/87	EST. 0100	9 eggs 5 broken	3.0 MNRP	TURTLE MAY HAVE BEEN SPOOKED BY RACOON, RELOCATED 1.8 MN
88	8/1/87	2300	190 eggs	2 MSRP	GREEN TURTLE RETURN OF N#58 TAG #208

Summary of Instructions:

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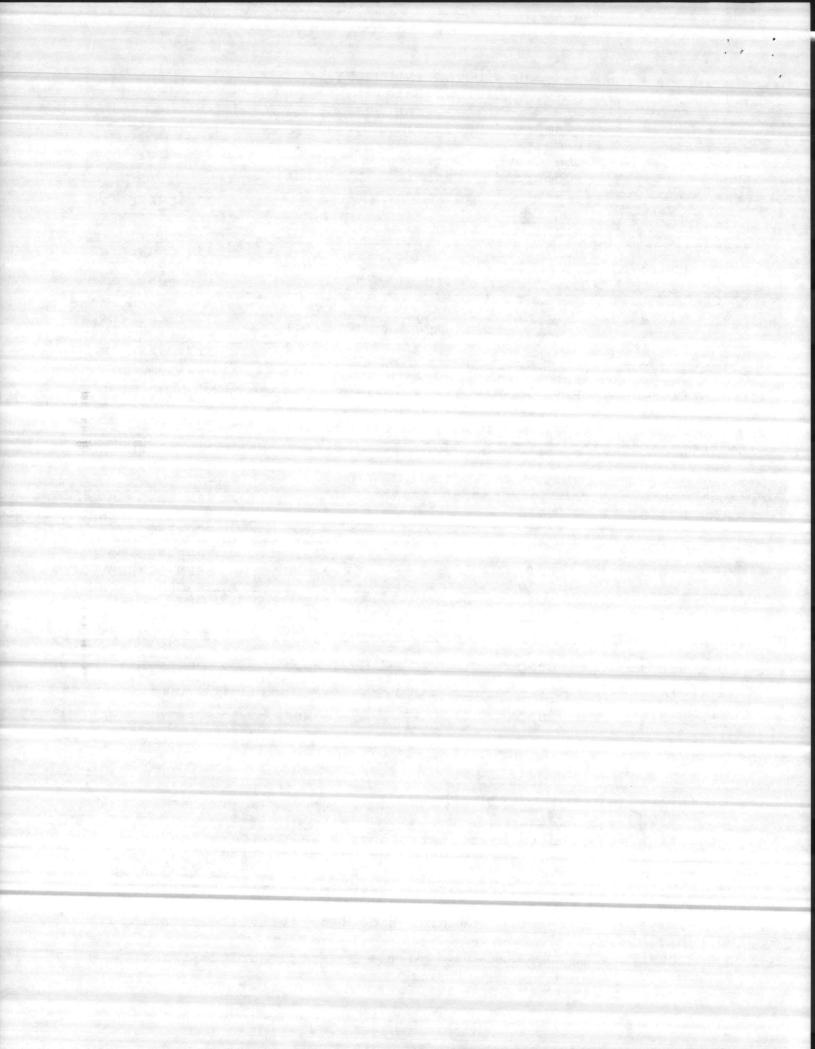


Camp Lejeune, North Carolina

Crawl No.	Date	Time Crawl Occurred	Active Nest ()	Location *	Comments **
		0315		1.75 MNRP	30" CRAWL, NO NEST ATTEMPT
90	8/6/87	2150		1.0 MNRP	34" CRAWL, RETURN OF #59, TAG AAR 206 AND 209
91	8/6/87	2330	136 eggs	2.07 MNRP	36" CRAWL, AAR 211 & 212, RETURN OF N#60 RELOCATED 0.6 MNRP
92	8/7/87	EST.		2.95 MNRP	31" CRAWL, NO NEST ATTEMPT
93	8/8/87	0335		2.85 MSRP	34" CRAWL, BASE OF SMALL TREES, NO NEST ATTEMPT
94	8/8/87	0435		2.3 MSRP.	34" CRAWL, NO NEST ATTEMPT
95	8/8/87	0530		2.8 MSRP	RAN INTO SMALL TREES 34" CRAWL, NO NEST ATTEMPT
96	8/8/87 .	EST. 2230		2.0 MNRP	APPEARED TO HAVE BEEN SCARED, HUMAN TRACKS IN THE AREA.
97	8/9/87	0015		.8 MNRP	TURTLE SEEMED FOOLED BY BRIGHT MOON, CRAWLED TO PAVILION PORCH, NO NES
98	8/9/87	0020		.4 MNRP	TWO BOYS SCARED TURTLE, 32" CRAWL, NO NEST ATTEMPT
99	8/9/87	0030		1.8 MSRP	TURTLE IN SURF, SCARED BY HEADLIGHTS

Summary of Instructions:

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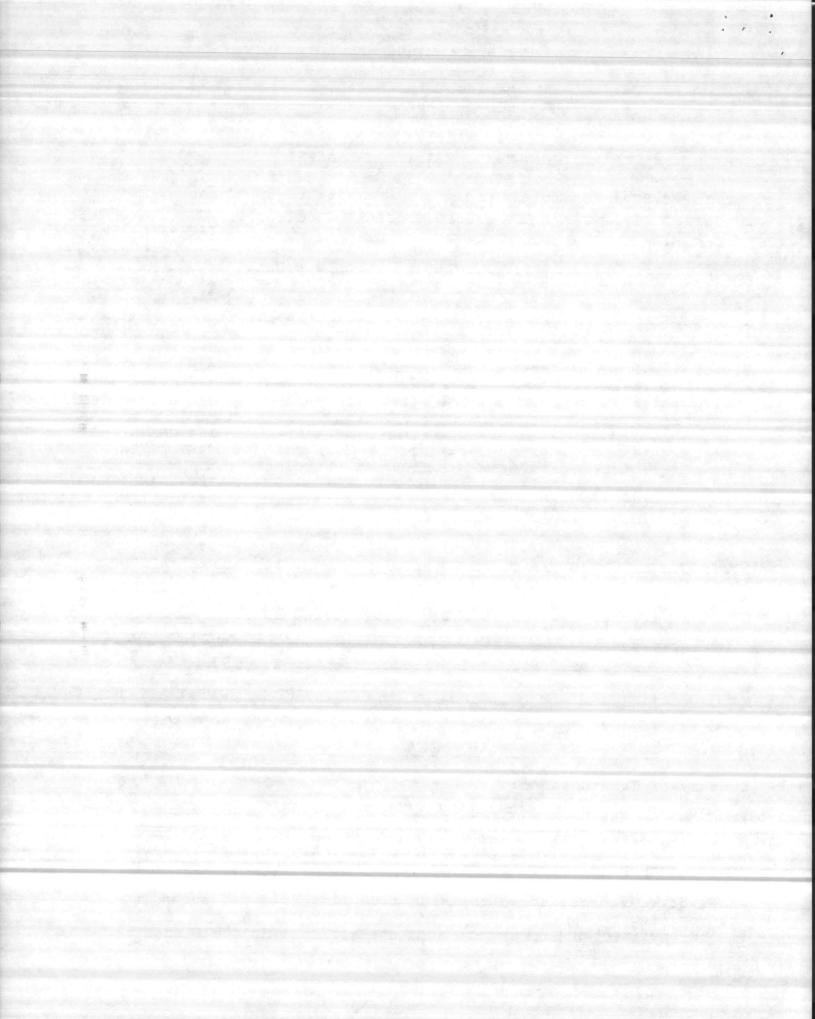


SEA-TURTLE INVENTORY (Crawl Data) Marine Corps Base Camp Lejeune, North Carolina

		Time Crawl Occurred		Location *	Comments **
100	8/9/87	0205	147 eggs	1.95 MNRP	TAG #071, RETURN OF FC#26, RELOCATED TO .25 MNRP
101	8/9/87	0300	94 eggs	1.3 MNRP	TAG #AAR-219 & 220 RELOCATED .25 MNRP
102	8/9/87	0330		3.0 MSRP	34" CRAWL, SMALL CAVITY, NO EGGS
103	8/10/87	EST. 2230		0.8 MSRP	32" CRAWL, NO NEST ATTEMPT
104	8/11/87		102 eggs	1.2 MSRP	32" CRAWL, AAR# 222 & 224, RELOCATED 0.5 MNRP
	8/11/87	EST. 2100		2.25 MNRP	36" CRAWL, NO NEST ATTEMPT
	8/11/87	EST. 2100		2.25 MNRP	38" CRAWL, NO NEST ATTEMPT
107	8/12/87	EST. 0200		3.2 MNRP	28" CRAWL, DISCOURAGE BY HIGH DUNE. NO NEST ATTEMPT
108	8/11/87	EST. 2300		2.9 MNRP	30" CRAWL, NO NEST ATTEMPT
109	8/11/87	EST. 2300		2.7 MNRP	30" CRAWL, NO NEST ATTEMPT
110	8/11/87	EST. 2300		2.6 MNRP	33" CRAWL, NO NEST ATTEMPT

Summary of Instructions:

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Camp Lejeune, North Carolina

Crawl No.	Date	Time Crawl Occurred	Active Nest ()	Location *	Comments **
111	8/12/87	EST. 2230		1.62 MNRP	38" CRAWL, NO NEST ATTEMPT
112	8/12/87	EST. 2300		1.67 MNRP	38" CRAWL, CLIMBED UP TO CLUB PATIO
113	8/13/87		163 eggs l broken	2.38 MSRP	GREEN TURTLE RETURN OF #58 & 88 RELOCATED .45 MNRP
114	8/12/87	EST. 2300		3.1 MNRP	36" CRAWL, NEST ATTEMPT IN SOFT SAND
115	8/12/87	EST. 2300		2.9 MNRP	38" CRAWL, NEST ATTEMPT ON TOP OF DUNE
	8/15/87	0100		2.45 MNRP	34" CRAWL, COULDN'T CLIMB DUNE
	.8/17/87	EST. 2200		3.0 MNRP	38" CRAWL, NO NEST ATTEMPT
118	8/20/87	EST. 2330	ll4 eggs	3.1 MNRP	38" CRAWL, 21" NEST CAVITY, RELOCATED 2 0 MNRP
119	8/22/87			.15 MNRP	41" CRAWL, TAG AAR-073 RETURN OF FC 26 & !))
120	8/22/87	0550		2.9 MSRP	36" CRAWL, NO NEST ATTEMPT
121	8/25/87	0100		2.8 MSRP	APPEARED TO HAVE BEEN SCARED BY VEHICLE NO NEST ATTEMPT

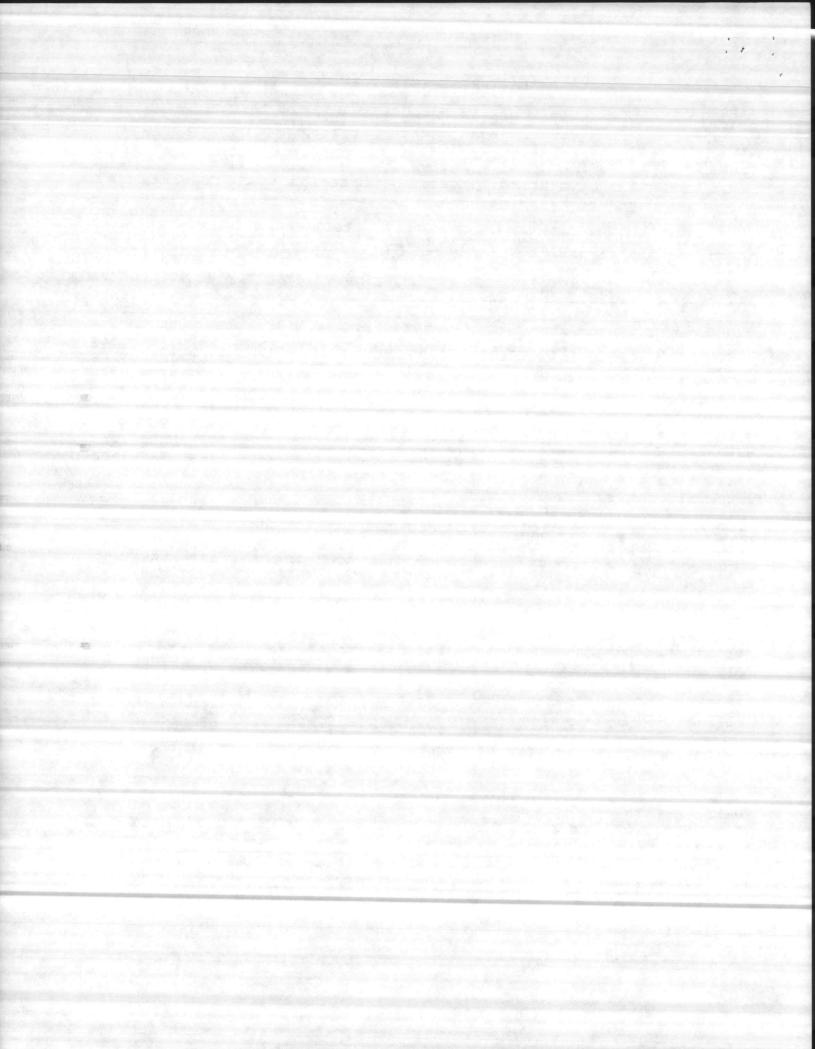
Summary of Instructions:

the vehicle.

** AAR prefixes on tag numbers indicate National Marine Fisheries

Service.

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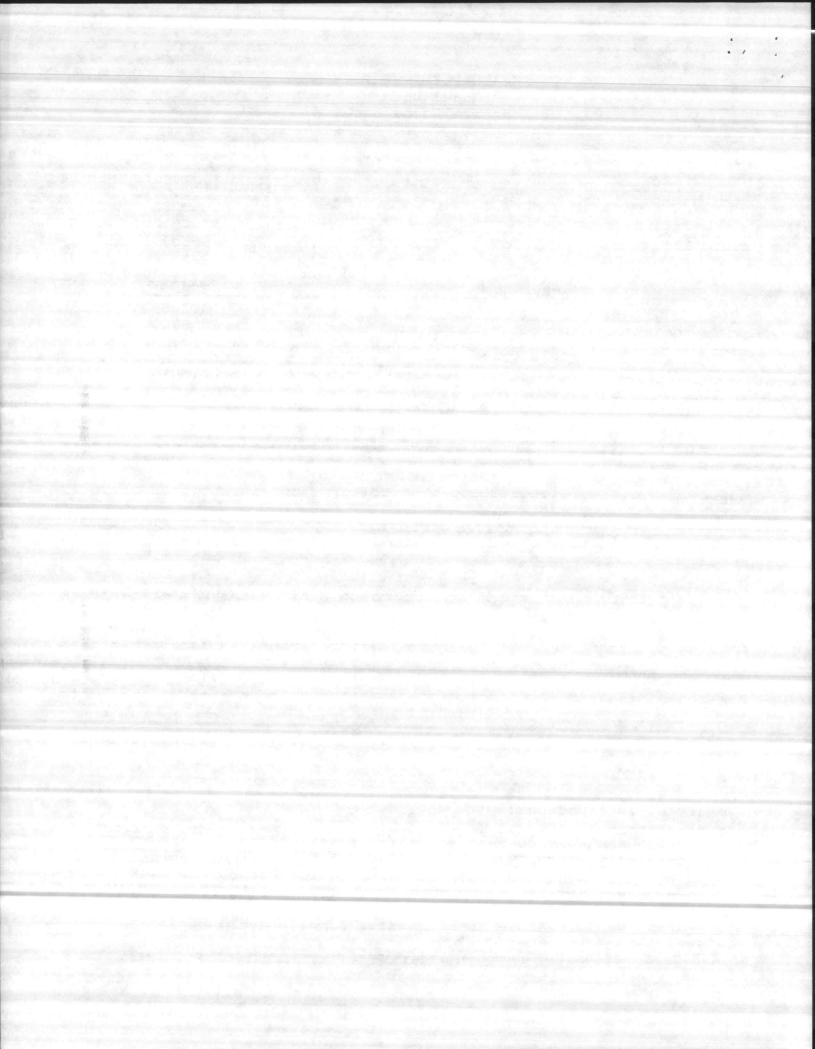


Camp Lejeune, North Carolina

Crawl No.	Date	Time Crawl Occurred	Active Nest ()	Location *	Comments **
122	8/24/87	N/A	6 eggs	1.8 MNRP	TURTLES FOUND FROM A HATCH OUT, NO NEST LOCATED, 3 dead, 3 aliv
	8/27/87	EST. 0001		3 MSRP	
		0105		2.1 MSRP	LATE ENTRY DUE TO ERROR
125	N/A	N/A	156 eggs	3.5 MNRP	NEST FOUND HATCHING ON 10/8/87
1					

Summary of Instructions:

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NORTH CAROLINA SEA TURTLE CONSERVATION 1987

PROJECT NAME: ONSLOW BEACH

NESTING RESULTS

NEST #	DATE TI	REATMENT CODE	DATE HATCHED		ATION CIME	CLUTCH SIZE*	#SURVIVED (HE + HA)	SURVIVAL % (HE + HA) (H + UH)
10	6/5/87	WIRE	8/9/87	65	days	138	113	82%
34	6/29/87	WIRE	8/27/87	59	days	128	105	82%
40	7/7/87	WIRE	9/3/87	58	days	120	114	95%
42	7/8/87	WIRE	9/6/87	60	days	138	73	53%
43	7/8/87	WIRE	9/6/87	60	days	188	160	85%
51	7/15/87	WIRE	9/14/87	61	days	139	130	94%
58 ·	7/21/87	WIRE	9/21/87	62	days	192	188	98%
59	7/24/87	WIRE	9/26/87	64	days	120	103	86%
60	7/26/87	WIRE	9/28/87	64	days	1,46	139	95%
70	7/27/87	WIRE	9/28/87	63	days	50	33	66%
75	7/28/87	WIRE	9/29/87	63	days	124	82	66%
77	7/29/87	WIRE	10/2/87	65	days	99	87	88%
85	7/31/87	WIRE	10/4/87	65	days	121	65	54%
87	8/1/87	WIRE	10/7/87	67	days	4	4	100%
88	8/1/87	WIRE	10/7/87	67	days	190	167	88%
91	8/6/87	WIRE	10/19/8	7 74	days	136	105	77%
100	8/9/87	WIRE	10/20/8	7 72	days	147	92	63%
100	8/9/8/	WIKE	10/20/8	1 12	uays	11/		

^{*} Clutch size determined from nest remains.

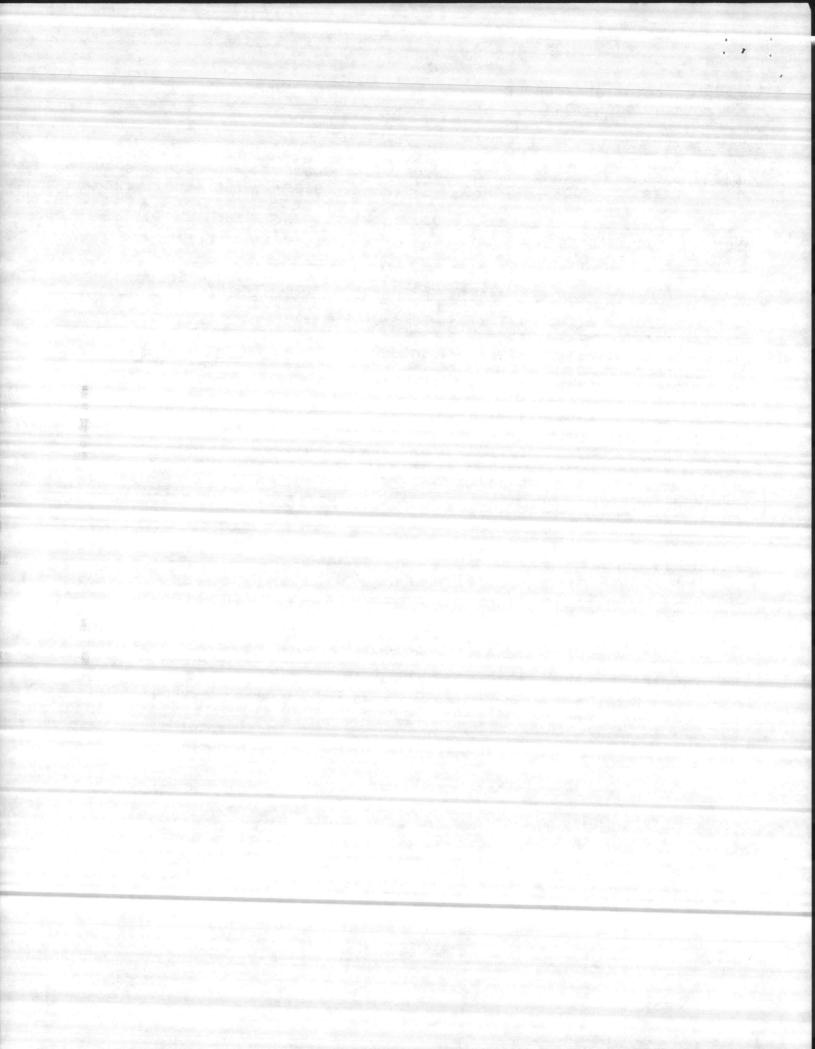
^{*} H = Hatched, escaped from egg

^{*} HE = Hatched, escaped from nest

^{*} HD = Hatched, dead in nest

^{*} HA = Hatched, alive in nest

^{*} UH = Unhatched



NESTING RESULTS

NES		TREATMENT	T DATE HATCHED	INCUBATION TIME	CLUTCH SIZE*	#SURVIVED (HE + HA)	SURVIVAL % (HE + HA) (H + UH)
10	1 879787	WIRE	10/17/87	69 days	94	73	78%
10	4 8/11/8	7 WIRE	10/27/87	77 days	102	82	80%
11	.3 8/13/8	7 WIRE	10/27/87	75 days	162	89	55%
) 11	.8 8/20./8	7 WIRE	11/13/87	85 days	114	0	0%
12	EST		8/24/87	N/A	6	N/A	N/A
12		7 WIRE	11/17/87	81 days	165	0	0%
12	25. N/A	N/A	10/8/87	N/A	156	121	78%
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^{*} Clutch size determined from nest remains.

^{*} H = Hatched, escaped from egg

^{*} HE = Hatched, escaped from nest

^{*} HD = Hatched, dead in nest

^{*} HA = Hatched, alive in nest

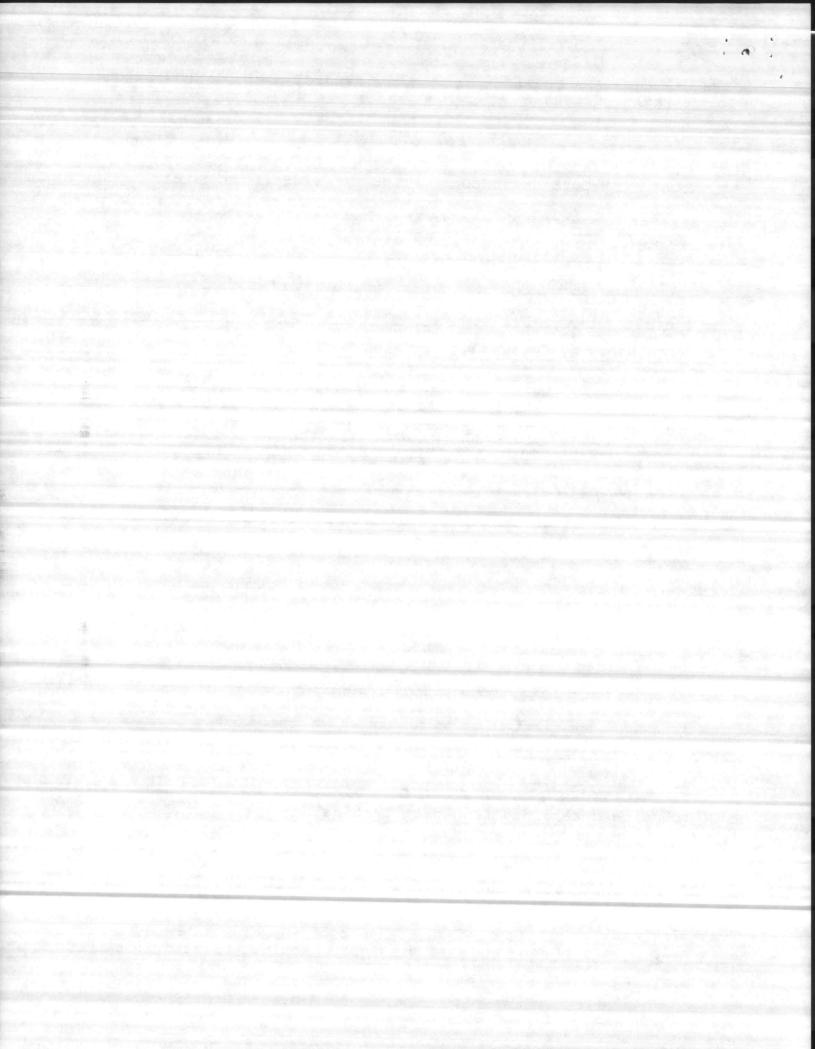
^{*} UH = Unhatched

⁽a) Nest #118 was dug up after 85 days - none of the eggs hatched.

⁽b) Nest #122 - never located, found 6 hatched turtles - 3 dead, 3 alive, actual clutch size unknown.

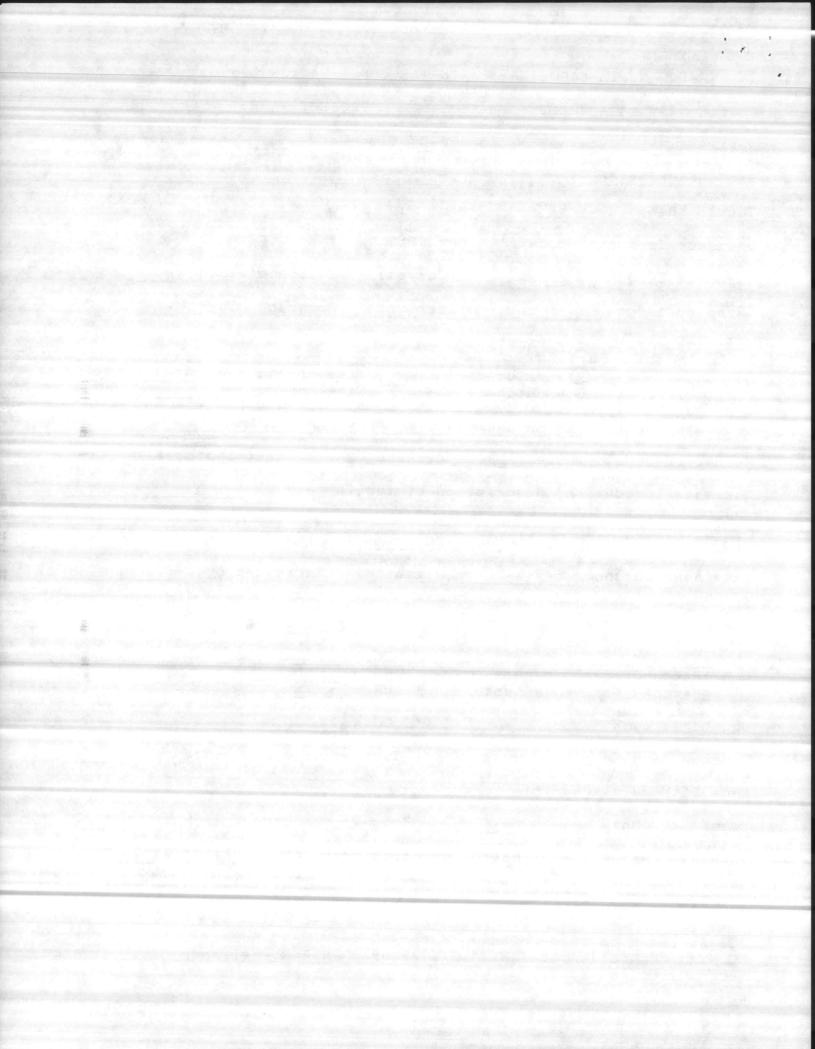
⁽c) Nest #123 was dug up after 81 days - none of the eggs hatched.

⁽d) Nest #125 was found hatching during the morning beach patrol.



NORTH CAROLINA SEA TURTLE CONSERVATION 1987

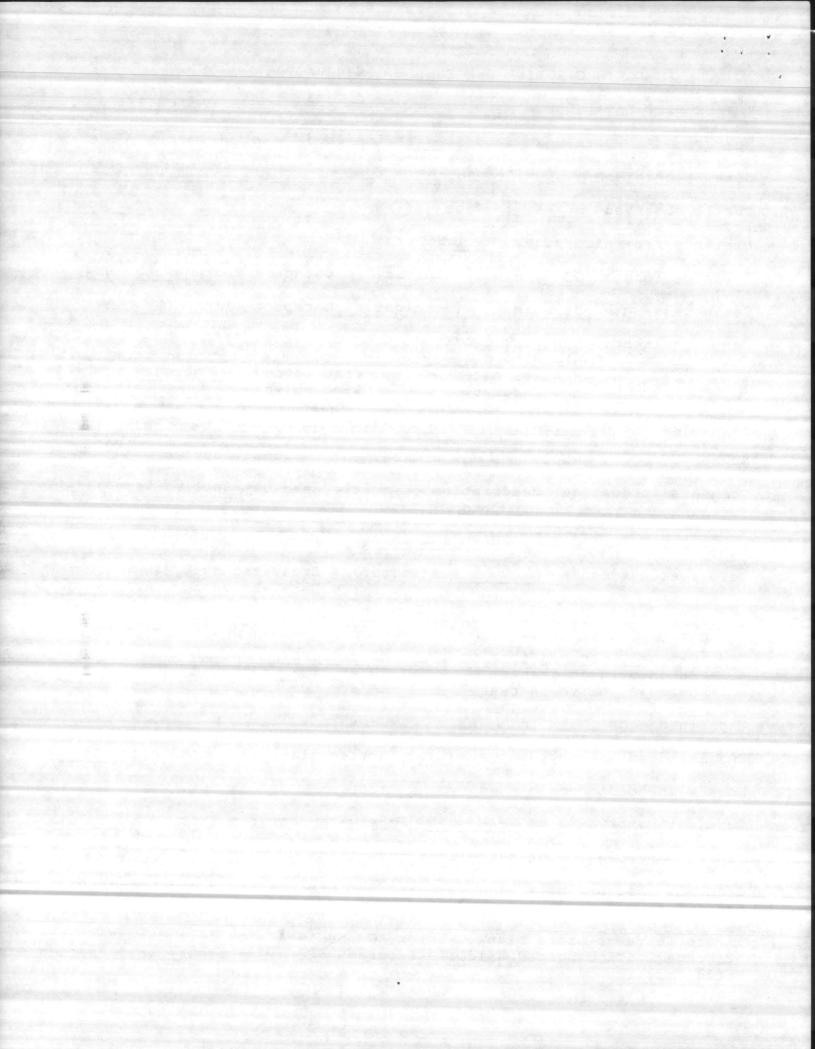
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 10 Date nest laid 6/5/87 Time laid 0126 (estimate)
Site Description 0.6 miles north of Riseley's Pier
Turtle observed YN Tags YN
Distance from high tide: 20 Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length N/A in. (Straight) Carapace width N/A in.
Nest treatment: M = Marked only W = Wire cage R = Relocated
Number of eggs: whole: 138 broken: 2 nest depth: 20 in.
Comments (predation, description of turtle, etc) N/A
Commence (predactor, description)
HATCHING DATA
Date nest hatched: 8/9/87 (bystumater) Excavated by: A.C. Henry, Jr. Date excavated: 8/10/87
Hatched eggs, from which hatchlings escaped from egg $H = 114$
Hatched, escaped from nest $HE = \frac{91}{1}$ Hatched, dead in nest $HD = \frac{1}{22}$
Unhatched eggs UH = 24
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HE + HA}{H + UH} = \frac{82 \%}{H + UH}$
Comments (factors affecting hatching success, deformed hatchlings, etc) Two turtles were hatching as nest was checked. They were left along the success of
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh, North Carolina 27611.



NORTH CAROLINA SEA TURTLE CONSERVATION 1987

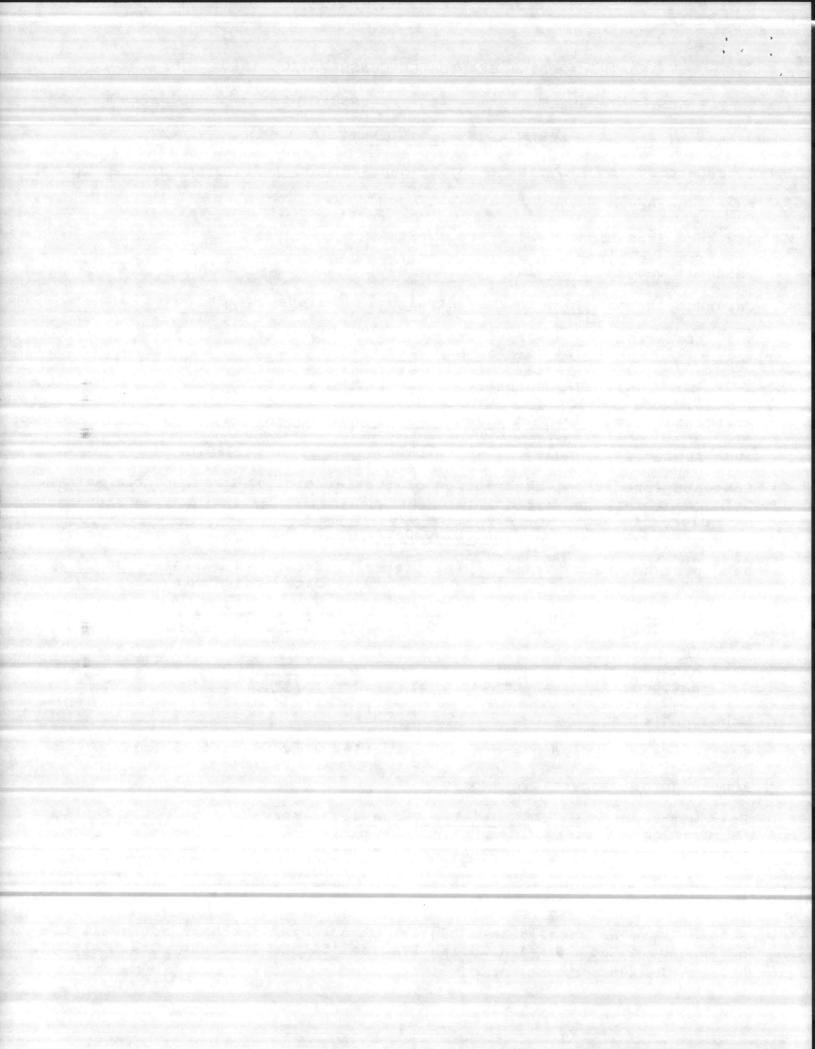
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 34 Date nest laid 6/29/87 Time laid 1150 (xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Site Description .8 miles north of Riseley's Pier
Turtle observed N Tags N
Distance from high tide: 30 Ft.
Carapace length 38 in. (Curved) Carapace width 31 in.
Carapace length 32 in. (Straight) Carapace width 27 in.
Nest treatment: M = Marked only W = Wire cage Relocated Time moved: 0015 H = Hatchery Time moved:
Relocated where?
Number of eggs: whole: 128 broken: 0 nest depth: 20 in.
Comments (predation, description of turtle, etc) Applied tags AAR-199/20 Turtle had a large amount of barnicles.
HATCHING DATA
Date nest hatched: 8/27/87 (estimate?) Excavated by: DANNY JONES Date excavated: 8/31/87
Hatched eggs, from which hatchlings escaped from egg $H = 105$
Hatched, escaped from nest $HE = 105$ Hatched, dead in nest $HD = 0$ Hatched, alive in nest $HA = 0$
Unhatched eggs UH = 23
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HE + HA}{H + IJH} = \frac{82}{\%}$
Comments (factors affecting hatching success, deformed hatchlings, etc)

Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh, North Carolina 27611.

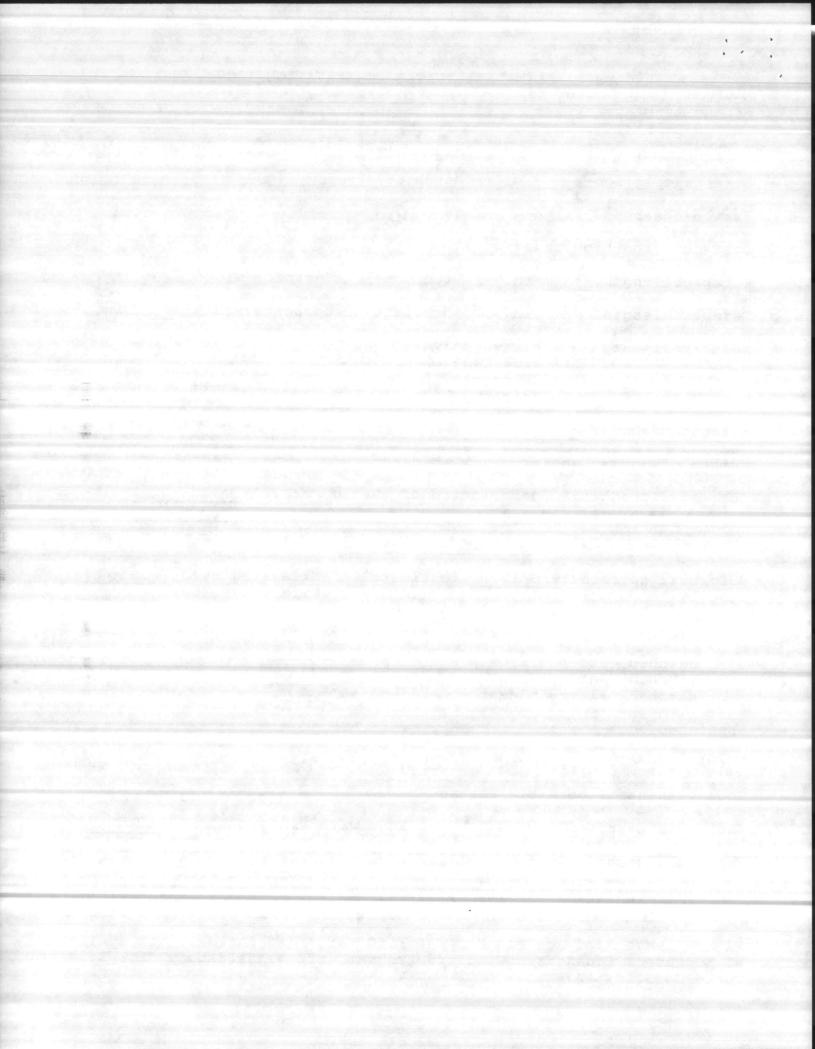


NORTH CAROLINA SEA TURTLE CONSERVATION 1987

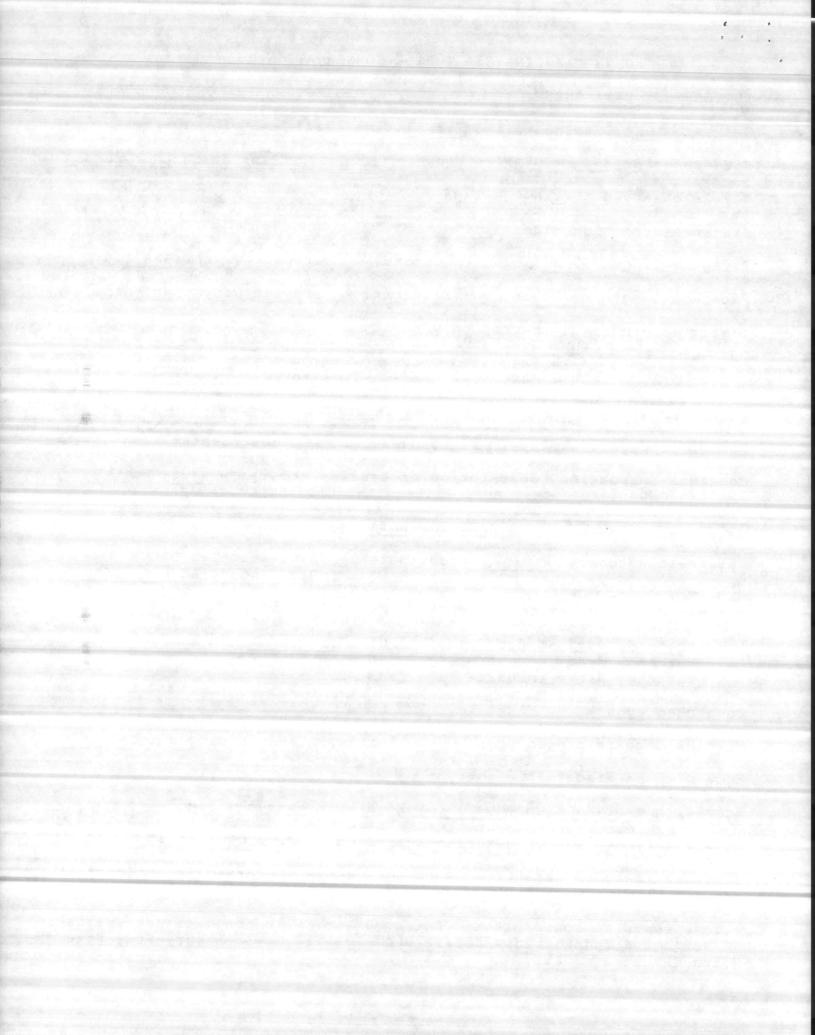
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 40 Date nest laid 7/7/87 Time laid 00-0100 (***XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Site Description Variable height dunes 8 - 15' with steep face 0.35 miles south of pi
Turtle observed (Y) N Tags Y (N)
Distance from high tide: 15 Ft.
Carapace length 39 3/4in. (Curved) Carapace width 38 1/2in.
Carapace length 36 in. (Straight) Carapace width 35 in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: 0140 0220
Relocated where? 2.1 miels south of Riseley's Pier on low dune
Number of eggs: whole: 120 broken: 0 nest depth: 13 in.
Comments (predation, description of turtle, etc) Normal turtle with a few barnicles. She tried a 1st nest about 75' east in the same environmen but closer to high tide #202 left #203 right. HATCHING DATA Date nest hatched: 9/3/87 (estimate?) Excavated by: DANNY JONES Date excavated: 9/8/87
Hatched eggs, from which hatchlings escaped from egg $H = 114$
Hatched, escaped from nest $HE = \frac{114}{0}$ Hatched, dead in nest $HD = \frac{0}{0}$ Hatched, alive in nest $HA = \frac{0}{0}$
Unhatched eggs UH = 6
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = HE + HA = 95\%$
Comments (factors affecting hatching success, deformed hatchlings, etc)
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh, North Carolina 27611.



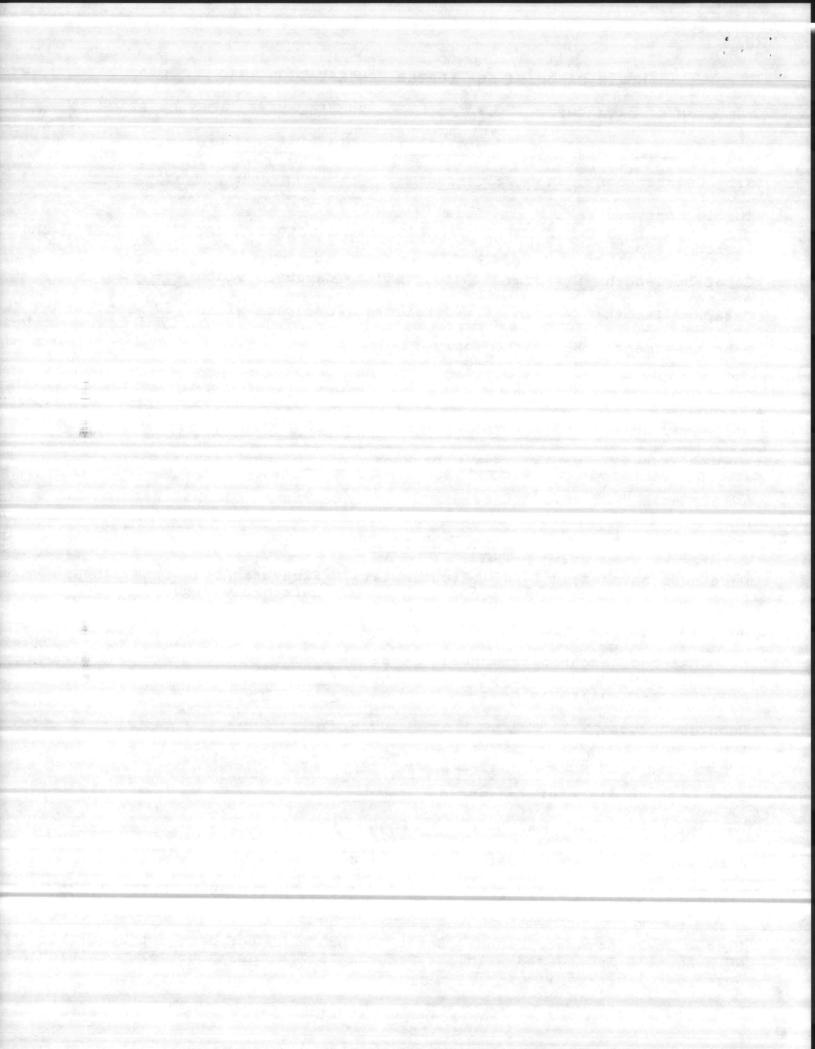
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 42 Date nest laid 7/8/87 Time laid 0145 (xextxix xext)
Site Description 2.1 miles north of Riseley's Pier at base of low dune
Turtle observed N Tags N
Distance from high tide: 40 Ft.
Carapace length 38 1/2in. (Curved) Carapace width 37 in.
Carapace length 37 in. (Straight) Carapace width 31 in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: 1000 Time moved:
Relocated where? 2.1 miles north of Riseley's Pier
Number of eggs: whole: 138 broken: 0 nest depth: 18 in.
Comments (predation, description of turtle, etc) CC had been up last 2 nights, (#38,#41) Tag #201 applied, (had AAR-105) HATCHING DATA
Date nest hatched: 9/6/87 (estimate?) Excavated by: DANNY JONES Date excavated: 9/9/87
Hatched eggs, from which hatchlings escaped from egg $H = 73$
Hatched, escaped from nest $HE = \frac{73}{0}$ Hatched, dead in nest $HD = \frac{0}{0}$ Hatched, alive in nest $HA = \frac{0}{0}$
Unhatched eggs UH = 65
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HE + HA}{H + UH} = \frac{53}{\%}$
Comments (factors affecting hatching success, deformed hatchlings, etc) Nest appeared to be too shallow.
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh



TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 43 Date nest laid 7/8/87 Time laid 0245 (MACKINGATE)
Site Description 2.0 miles south of Riseley's Pier at base of dunes
Turtle observed Y N Tags Y N
Distance from high tide: 40 Ft.
Carapace length $45 \frac{3}{4}$ in. (Curved) Carapace width $45 \frac{3}{4}$ in.
Carapace length 42 in. (Straight) Carapace width 40 in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: 0415
Relocated where? 2.1 miles north of Riseley's Pier on a low dune
Number of eggs: whole: 188 broken: 0 nest depth: 20 in.
Comments (predation, description of turtle, etc) This was a large Green Turtle; made large, deep nest - long time 0130-0415 - surf to surf Applied Tag #AAR-204/205
HATCHING DATA
Date nest hatched: 9/6/87 (estimate?) Excavated by: DANNY JONES Date excavated: 9/9/87
Hatched eggs, from which hatchlings escaped from egg $H = 160$
Hatched, escaped from nest $HE = \frac{151}{0}$
Hatched, dead in nest $HD = 0$ Hatched, alive in nest $HA = 9$
Unhatched eggs UH = 28
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo $<$ 3 cm $\frac{N/A}{}$ Eggs with embryo $>$ 3 cm $\frac{N/A}{}$
Survival Percentage of hatchlings from nest $SP = \frac{HE + HA}{H + UH} = \frac{85}{\%}$
Comments (factors affecting hatching success, deformed hatchlings, etc) 9 turtles were in nest, they were alive and o.k.
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh,



TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 51 Date nest laid 7/15/87Time laid 0400 (xextximxxxxx)
Site Description 1.45 miles south of Riseley's Pier in wash over
Turtle observed ØN Tags ØN
Distance from high tide: 35 Ft.
Carapace length 40 1/4in. (Curved) Carapace width 36 in.
Carapace length 36 in. (Straight) Carapace width 30 in.
Nest treatment: M = Marked only W = Wire cage R = Relocated Time moved: 0435 H = Hatchery Time moved:
Relocated where? 2.1 miles north of Riseley's Pier
Number of eggs: whole: 139 broken: 0 nest depth: 20 in.
Comments (predation, description of turtle, etc) <u>CC with barnicles.</u> L flipper tag was disconnected, turned and buried in flesh.
HATCHING DATA
Date nest hatched: 9/14/87 (estimate?) Excavated by: DANNY JONES Date excavated: 9/15/87
Hatched eggs, from which hatchlings escaped from egg $H = 131$
Hatched, escaped from nest $HE = \frac{128}{1}$ Hatched, dead in nest $HD = \frac{1}{2}$ Hatched, alive in nest $HA = \frac{2}{2}$
Unhatched eggs UH = 8
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HE + HA}{H + UH} = \frac{94}{\%}$
Comments (factors affecting hatching success, deformed hatchlings, etc)
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongamé & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh, North Carolina 27611.



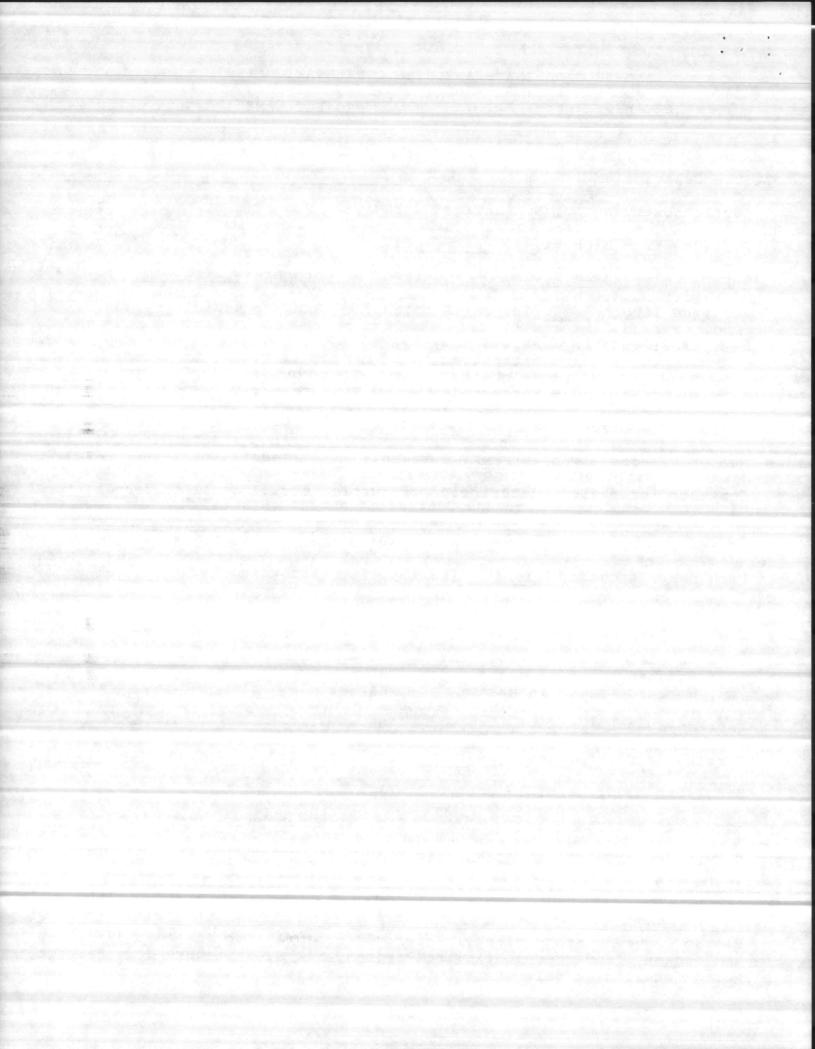
TURTLE NEST DATA SHEET	PROJECT NAME: ONSLOW BEACH
Nest # 58 Date nest laid 7/21/87Tim	e laid 0 <u>100</u> (***********************************
Site Description 2.05 miles south of R high tide, at base of 15' Turtle observed N Tags Y N	iseley's Pier, 110 ft. above last dune.
Distance from high tide: 110 Ft.	
Carapace length 46 1/4 in. (Curved)	그 그 이렇게 되어졌다면서 가장 없다면 그렇게 되었다면 하는 그렇게 되었다. 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그
Carapace length $\frac{43 1/2}{}$ in. (Straight)	Carapace width $371/2$ in.
H = Hatchery	Time moved: 0230-0330 Time moved:
Relocated where? 2.1 miles north of Ris	eley's Pier 24" (relocate)
Number of eggs: whole: 192 broken:	0 nest depth: 34 in. (or
Date nest hatched: 9/21/87 (estimate:	Excavated by: DANNY JONES Date excavated: 9/22/87
Hatched eggs, from which hatchlings eso	caped from egg H = 188
Hatched, escaped from nest HE Hatched, dead in nest HD Hatched, alive in nest HA	= O again to the second and the second again the second against the second again the second against the second again
Unhatched eggs UH	= 4
Turtles dead in pipped eggs N/A Tur	tles alive in pipped eggs N/A
Eggs with no discernible embryo N/A	
Eggs with embryo < 3 cm N/A Eggs	with embryo > 3 cm N/A
Survival Percentage of hatchlings from	nest SP = $\frac{HE + HA}{H + UH}$ = $\frac{98 \%}{}$
Comments (factors affecting hatching setc)	
Please leave no space blank. Enter "O	" or "N/A" for data not available

North Carolina

27611.

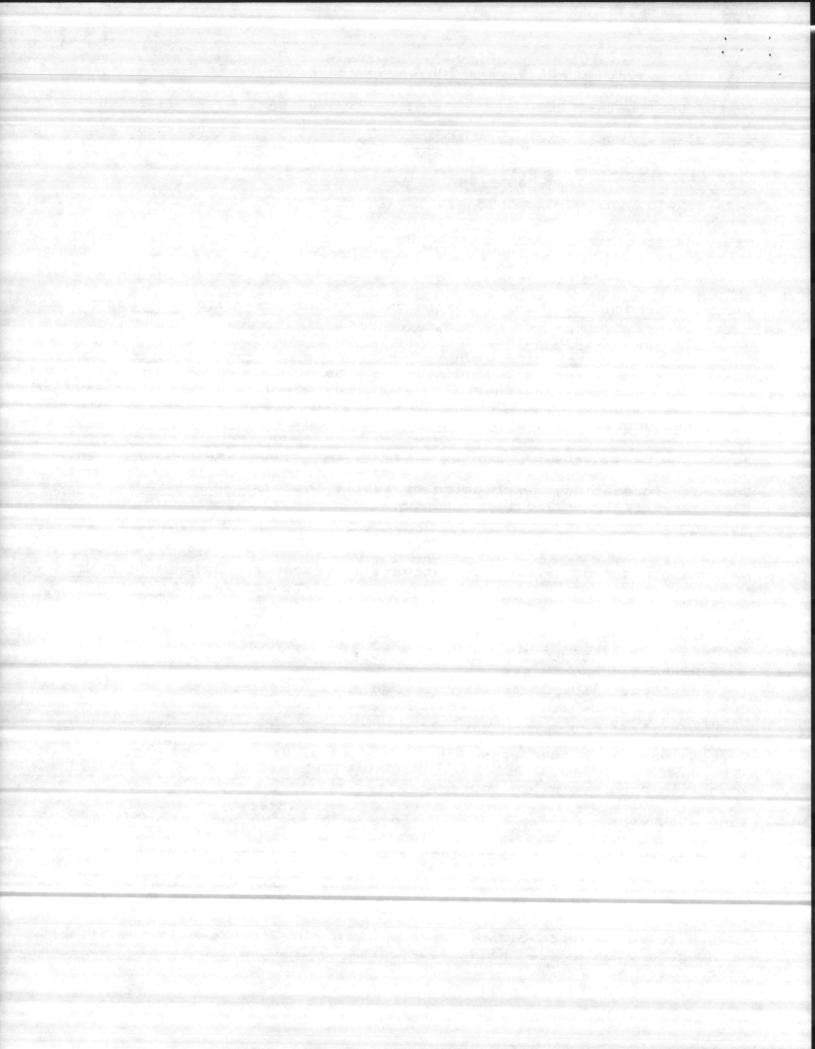
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TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH	
Nest # 59 Date nest laid 7/24/87 Time laid 2315 (************************************	
Site Description 0.1 miles north of Riseley's Pier, 1.5' from low dunes	i
vehicle tracks.	
Turtle observed (Y) N Tags Y(N)	
Distance from high tide: 45 Ft.	
Carapace length 38 3/4 in. (Curved) Carapace width 36 in.	
Carapace length 36 in. (Straight) Carapace width 25 in.	
Nest treatment: M = Marked only	
W = Wire cage R = Relocated Time moved: 0115	
R = Relocated Time moved: 0115 H = Hatchery Time moved:	
n - nacchery	
Relocated where? 1.8 miles north of Riseley's Pier	
Number of eggs: whole: 120 broken: 0 nest depth: 18 in.	
Comments (predation, description of turtle, etc) Small loggerhead tur with some barnicles. Tags AAR-206(left) AAR-209 (right)	tl
with some balliteres. rags mix 200(lere) mix 200 (right)	
HATCHING DATA	
Date nest hatched: 9/26/87 (estimate?) Excavated by: DANNY JONES Date excavated: 9/28/87	
Hatched eggs, from which hatchlings escaped from egg $H = 106$	
Hatched, escaped from nest HE = 103	
Hatched, dead in nest HD = 3	
Hatched, alive in nest $HA = 0$	
Unhatched eggs UH = 14	
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A	
Eggs with no discernible embryo N/A	
Eggs with embryo $<$ 3 cm N/A Eggs with embryo $>$ 3 cm N/A	
Survival Percentage of hatchlings from nest $SP = \frac{HE + HA}{H + UH} = \frac{86}{\%}$.	
Comments (factors affecting hatching success, deformed hatchlings,	
etc) This turtle returned 8/6/87, nested two nights later 8/8/87, 4 miles north	of
Care Fear (Bald Head Island) According to Pat Schroder: NMFS Miami FI.	
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleig	h.
North Carolina 27611.	



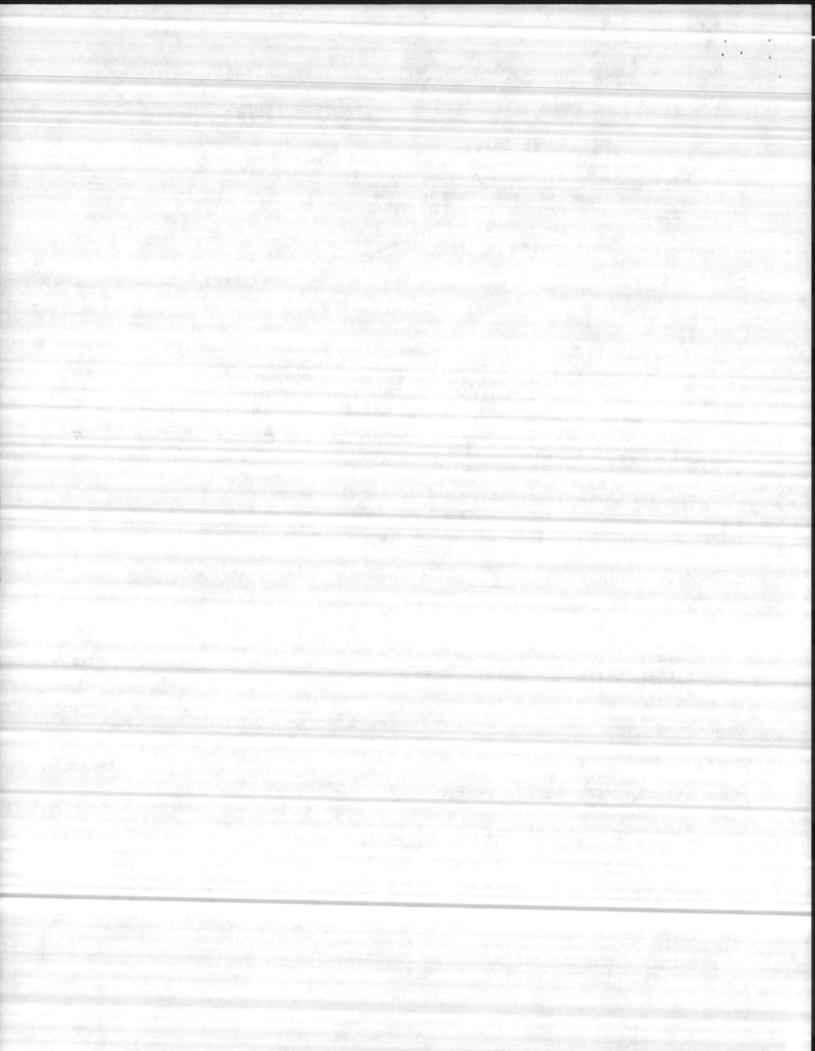
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 60 Date nest laid 7/26/87 Time laid 0130 (文文文文文文文文文文文文文文文文文文文文文文文文文文文文文文文文文文文文
Site Description 0.6 miles south of Riseley's Pier
Turtle observed N Tags Y
Distance from Krok tide: 117 Ft.
Carapace length 44 in. (Curved) Carapace width 41 in.
Carapace length 42 in. (Straight) Carapace width 31 in.
Nest treatment: M = Marked only W = Wire cage Relocated Time moved: 0145 H = Hatchery Time moved:
Relocated where? 1.8 miles north of Riseley's Pier
Number of eggs: whole: 146 broken: 0 nest depth: 23 in.
Comments (predation, description of turtle, etc) Loggerhead. Tags AAR-211/212 (#210 lost in progress)
HATCHING DATA
Date nest hatched: 9/28/87 (estimate?) Excavated by: DANNY JONES Date excavated: 9/30/87
Hatched eggs, from which hatchlings escaped from egg $H = 139$
Hatched, escaped from nest $HE = \frac{126}{0}$ Hatched, dead in nest $HD = \frac{0}{13}$ Hatched, alive in nest $HA = \frac{13}{13}$
Unhatched eggs UH = 7
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HE + HA}{H + 11H} = \frac{95}{\%}$
Comments (factors affecting hatching success, deformed hatchlings, etc)

Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh, North Carolina 27611.

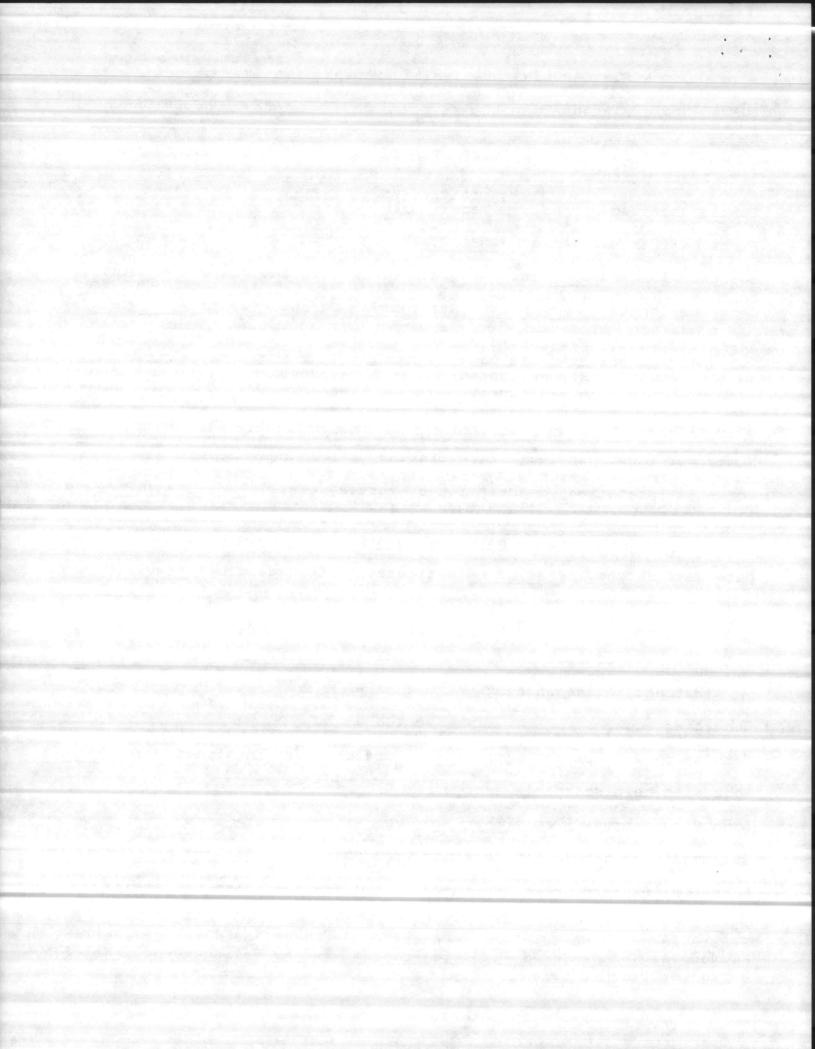


TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 70 Date nest laid 7/27/87 Time laid 2300 (physical)
Site Description 2.0 miles north of Riseley's Pier, in narrow vehicle path on edge of dune. Turtle observed
Distance from high tide: 35 Ft.
Carapace length 38 1/2 in. (Curved) Carapace width 36 in.
Carapace length 35 in. (Straight) Carapace width 25 in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: 0040-0100
Relocated where? 2.0 miles north of Riseley's Pier higher up in dunes.
Number of eggs: whole: 50 broken: 0 nest depth: 18 in.
Comments (predation, description of turtle, etc) CC with tags 817 (left) tag on right flipper is upside down and semi-buried in flesh - only #64 visible, turt did not cover nest, only poor fill-in attempt, cavity visible. HATCHING DATA Date nest hatched: 9/28/87 (estimate?) Excavated by: DANNY JONES Date excavated: 9/30/87
Hatched eggs, from which hatchlings escaped from egg. $H = 33$
Hatched, escaped from nest $HE = 31$ Hatched, dead in nest $HD = 0$ Hatched, alive in nest $HA = 2$
Unhatched eggs UH = 17
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HE + HA}{H + UH} = \frac{66 \%}{11 + UH}$
Comments (factors affecting hatching success, deformed hatchlings, etc)

Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh, North Carolina 27611.

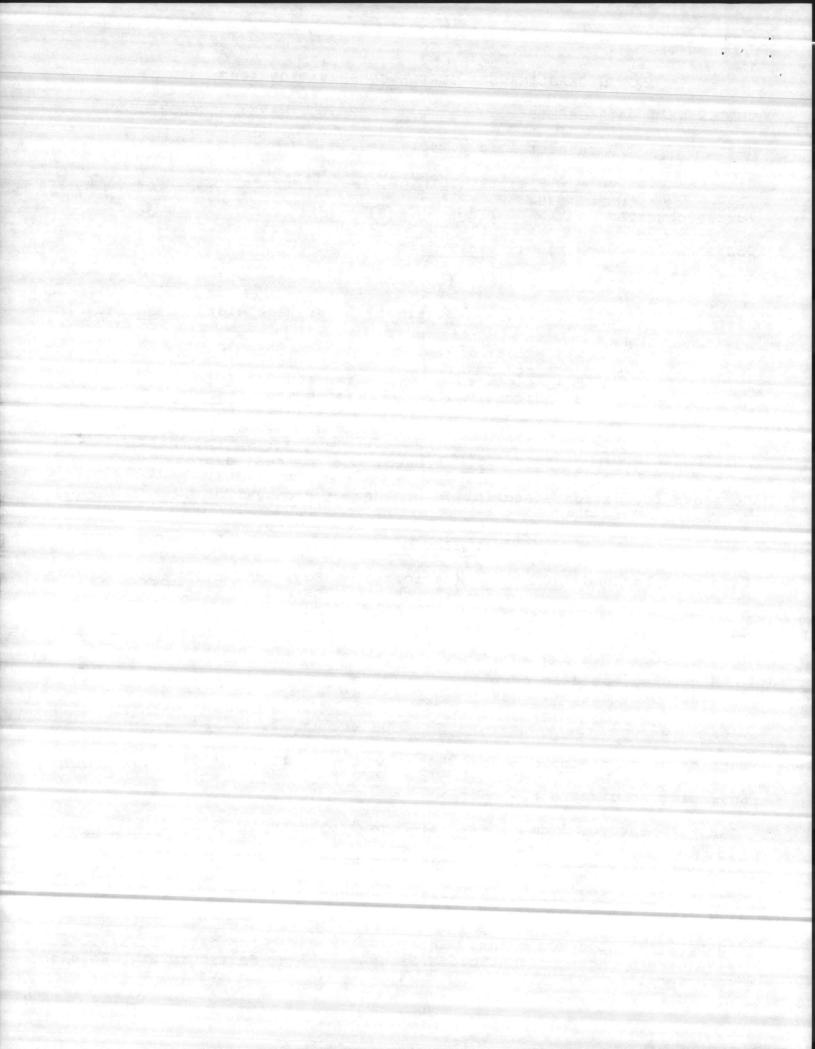


TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 75 Date nest laid 7/28/87Time laid 0220 (*********************************
Site Description 1.65 miles south of Risely's Pier about 100 yards from military vehicles on the beach.
Turtle observed N Tags N
Distance from high tide: 50 Ft.
Carapace length 38 1/4 in. (Curved) Carapace width 37 1/4in.
Carapace length 36 in. (Straight) Carapace width 26 in.
Nest treatment: M = Marked only W = Wire cage R = Relocated Time moved: 0340-0405 H = Hatchery Time moved:
Relocated where? 2.0 miles north of Riseley's Pier next to #70.
Number of eggs: whole: 124 broken: 0 nest depth: 20 in.
Comments (predation, description of turtle, etc) Large CC with Tags 119/120 Turtle had been up at 27/2349 3.3 miles south of Roseley's Pier, and was spooked by me. HATCHING DATA
Date nest hatched: 9/29/87 (estimate?) Excavated by: DANNY JONES Date excavated: 10/1/87
Hatched eggs, from which hatchlings escaped from egg $H = 111$
Hatched, escaped from nest $HE = 82$ Hatched, dead in nest $HD = 29$ Hatched, alive in nest $HA = 0$
Unhatched eggs UH = 13
Turtles dead in pipped eggs $\frac{N/A}{}$ Turtles alive in pipped eggs $\frac{N/A}{}$
Eggs with no discernible embryo N/A
Eggs with embryo $<$ 3 cm $_{N/A}$ Eggs with embryo $>$ 3 cm $_{N/A}$
Survival Percentage of hatchlings from nest SP = $\frac{HE + HA}{H + UH} = \frac{66}{\%}$
Comments (factors affecting hatching success, deformed hatchlings, etc)
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh, North Carolina 27611.

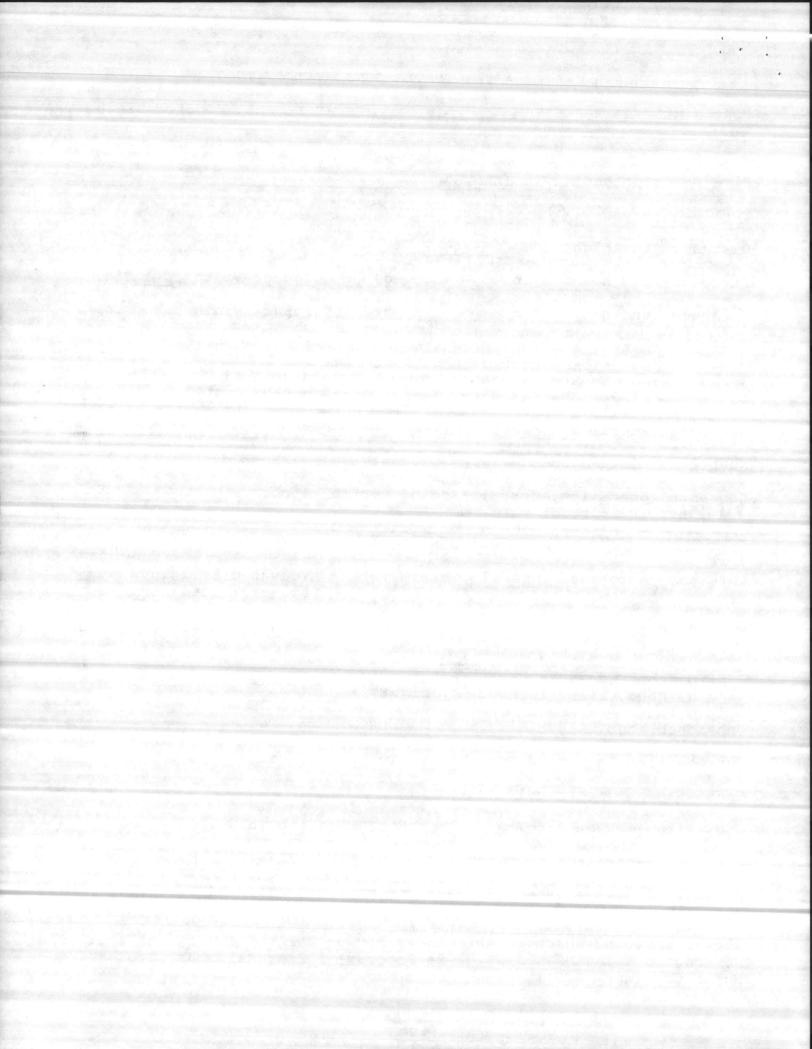


TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 77 Date nest laid 7/29/87Time laid 0135 (************************************
Site Description 0.5 miles south of Riseley's Pier in heavy vehicle tra
Turtle observed N Tags Y N
Distance from high tide: 95 Ft.
Carapace length 39 in. (Curved) Carapace width 36 1/2in.
Carapace length 36 1/2in. (Straight) Carapace width 26 in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: 0235-0320 Time moved:
Relocated where? 2.05 miles north of Riselev's Pier
Number of eggs: whole: 99 broken: 0 nest depth: 17 in.
Comments (predation, description of turtle, etc) CC with many barnicles. Looked like #76 - right flipper tag not in completely (#214) HATCHING DATA
Date nest hatched: 10/2/87 (estimate?) Excavated by: DANNY JONES Date excavated: 10/5/87
Hatched eggs, from which hatchlings escaped from egg $H = 87$
Hatched, escaped from nest $HE = 87$ Hatched, dead in nest $HD = 0$ Hatched, alive in nest $HA = 0$
Unhatched eggs . UH = 12
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo 3 cm N/A Eggs with embryo 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HE + HA}{H + UH} = \frac{88}{\%}$
Comments (factors affecting hatching success, deformed hatchlings, etc)

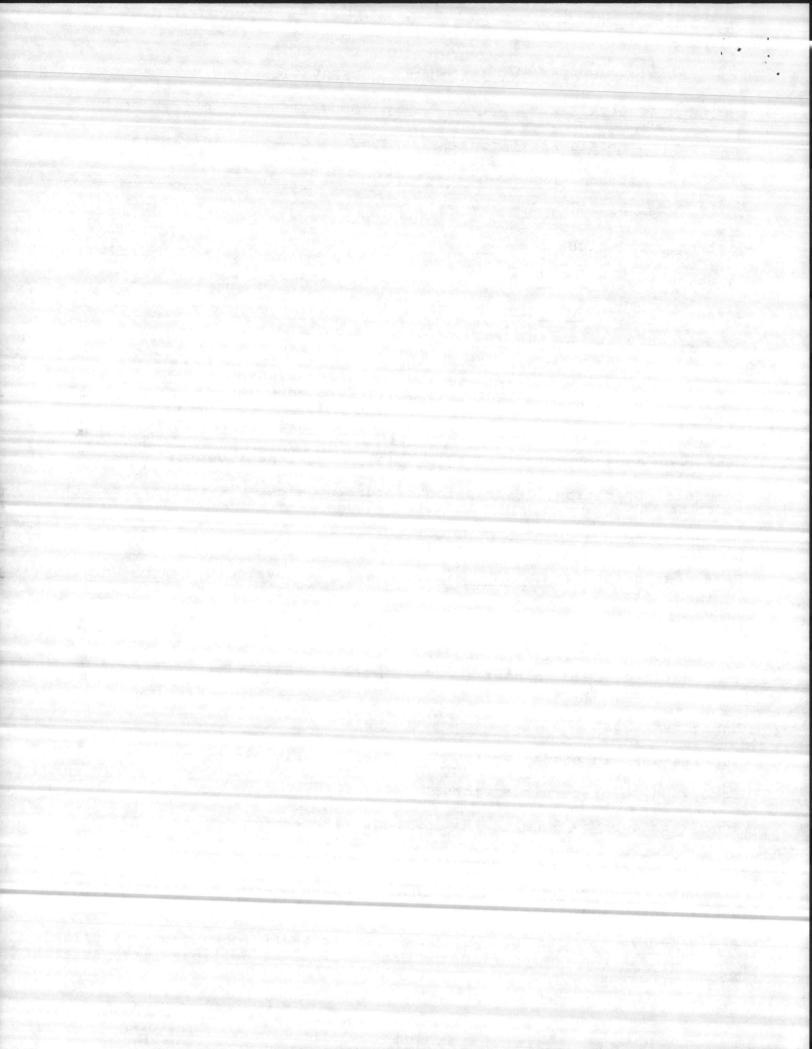
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh, North Carolina 27611.



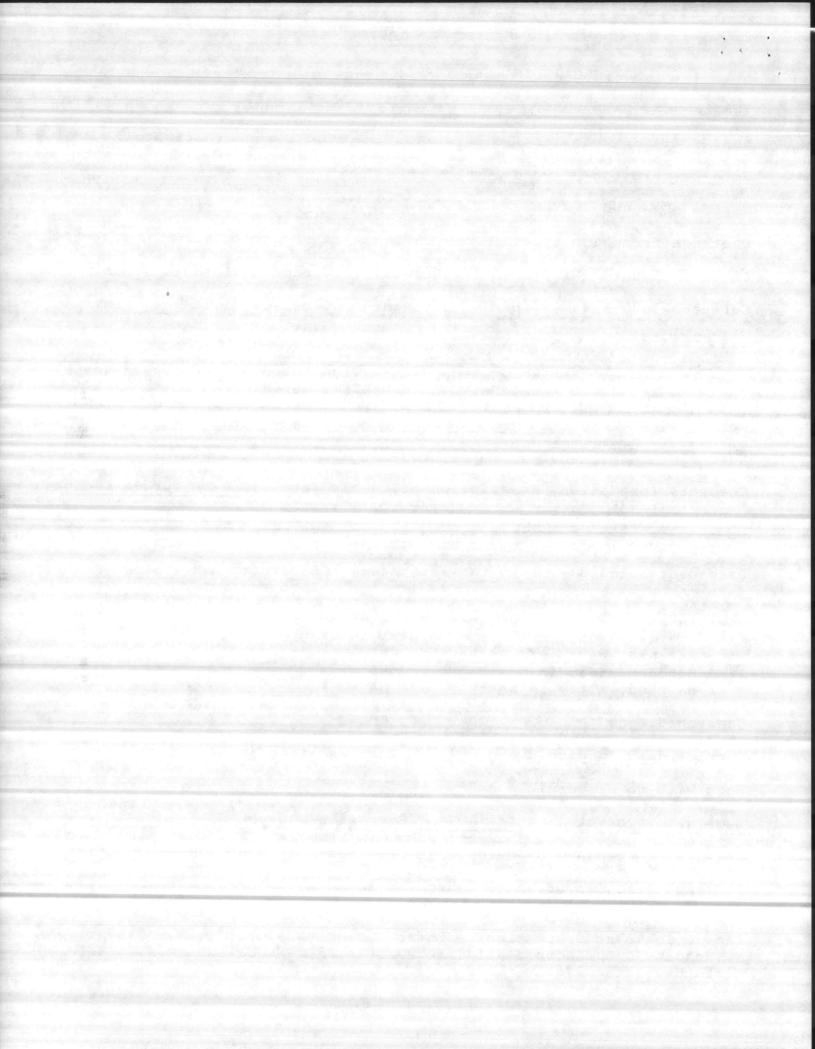
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 85 Date nest laid 7/31/87Time laid 0230 (xextxxxxxx)
Site Description 2.7 miles south of Riseley's Pier in low over wash
Turtle observed (Y) N Tags Y (V)
Distance from high tide: N/A Ft.
Carapace length $40 \frac{1}{2}$ in. (Curved) Carapace width $37 \frac{1}{2}$ in.
Carapace length 36 1/2in. (Straight) Carapace width 29 in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: 0320-0400 Time moved:
Relocated where? 2.15 miles north of Riseley's Pier
Number of eggs: whole: 121 broken: 0 nest depth: 20 in.
Comments (predation, description of turtle, etc) <u>CC - applied tags</u> #215 left, #216 right Air temp 79° F.
HATCHING DATA
Date nest hatched: 10/4/87 (estimate?) Excavated by: DANNY JONES Date excavated: 10/5/87
Hatched eggs, from which hatchlings escaped from egg $H = 68$
Hatched, escaped from nest $HE = \frac{65}{3}$ Hatched, dead in nest $HD = \frac{3}{3}$ Hatched, alive in nest $HA = \frac{0}{3}$
Unhatched eggs UH = 53
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HE + HA}{H + UH} = \frac{54}{\%}$
Comments (factors affecting hatching success, deformed hatchlings, etc) Nest ran over twice by vehicle. 25 eggs appeared busted in nest by vehicle weight. 3 hatchlings killed when run over by vehicle. Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh
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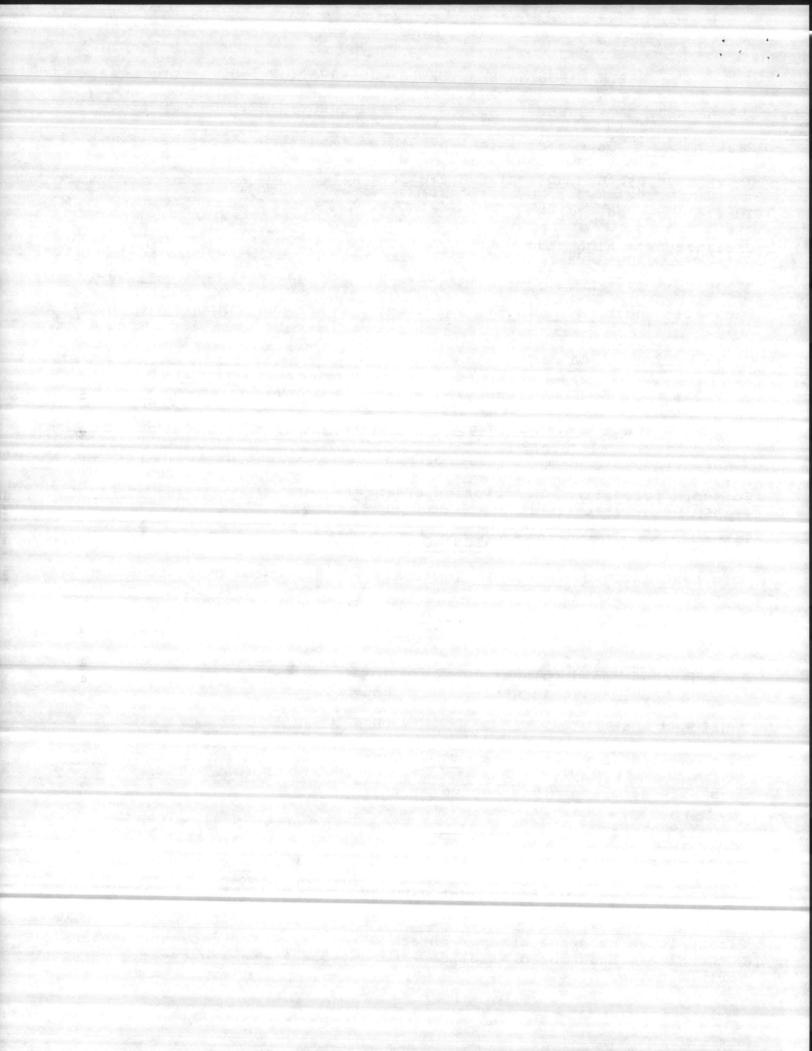
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 87 Date nest laid $8/1/87$ Time laid 0100 (estimate)
Site Description 3.0 miles north of Riseley's Pier against base of dune.
Turtle observed Y N Tags Y N
Distance from high tide: 50 Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length N/A in. (Straight) Carapace width N/A in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: 0745-0815 Time moved:
Relocated where? 1.8 miles north of Riseley's Pier incomplete
Number of eggs: whole: 4 broken: 5 nest depth: 10 in.
Comments (predation, description of turtle, etc) Racoon tracks at location but didn't dig in nest area. Eggs were 1" deep.
HATCHING DATA
Date nest hatched: 10/7/87 (estimate?) Excavated by: A.C. HENRY, JR. Date excavated: 10/8/87
Hatched eggs, from which hatchlings escaped from egg $H = 4$
Hatched, escaped from nest $HE = \frac{4}{0}$ Hatched, dead in nest $HD = \frac{0}{0}$ Hatched, alive in nest $HA = \frac{0}{0}$
Unhatched eggs UH = 0
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = HE + HA = 100 \%$
Comments (factors affecting hatching success, deformed hatchlings, etc) This was a disturbed nest - only 4 eggs were found and relocated.
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh, North Carolina 27611.



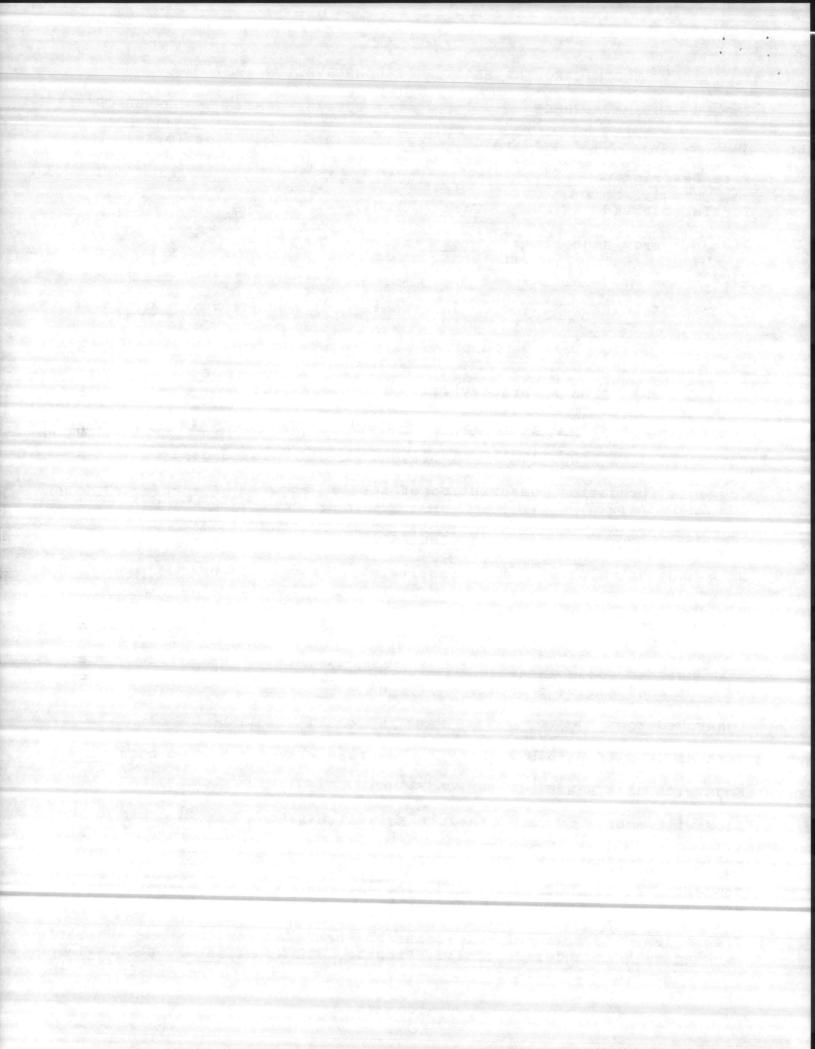
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 88 Date nest laid 8/1/87 Time laid 2300 (estimate)
Site Description Base of high sand dune
Turtle observed N Tags N
Distance from high tide: 120 Ft.
Carapace length 46 1/4in. (Curved) Carapace width 44 1/2in.
Carapace length $43 \frac{1}{2}$ in. (Straight) Carapace width $3\frac{7}{1}\frac{1}{2}$ in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: 1300 (8/23/87) Time moved:
Relocated where?l mile north of Riseley's Pier in 5' sand dune.
Number of eggs: whole: 190 broken: 0 nest depth: 23 in.
Comments (predation, description of turtle, etc) Green turtle. Enclosed in wire cage, but not relocated at this time. HATCHING DATA
Date nest hatched: 10/7/87 (estimate?) Excavated by: A.C. HENRY, JR. Date excavated: 10/8/87
Hatched eggs, from which hatchlings escaped from egg $H = 175$
Hatched, escaped from nest $HE = \frac{121}{8}$ Hatched, dead in nest $HA = \frac{8}{46}$
Unhatched eggs UH = 15
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo 3 cm N/A Eggs with embryo 3 cm N/A
Survival Percentage of hatchlings from nest $SP = HE + HA = 88 \%$
Comments (factors affecting hatching success, deformed hatchlings, etc) This nest was relocated 8/23/87 due to military training activities around original nest. Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh,
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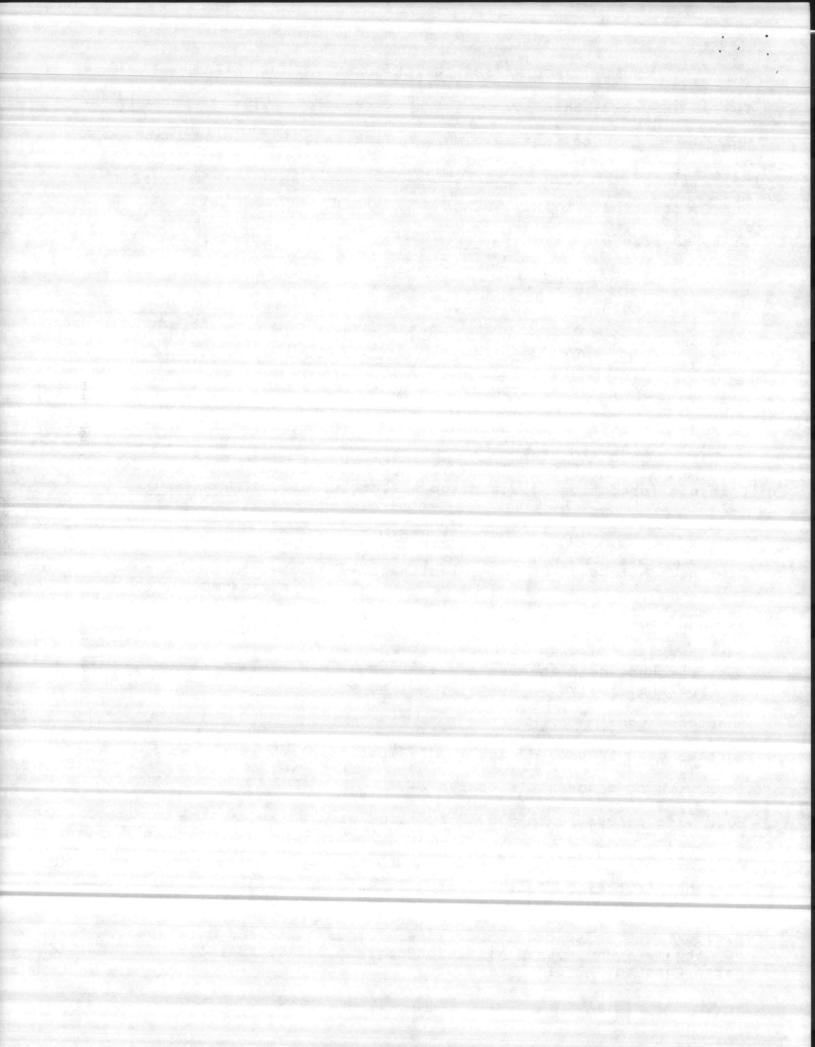
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 91 Date nest laid 8/6/87 Time laid 2330 (estimate)
Site Description 2.07 miles north of Riseley's Pier at base of steep 6' d
Turtle observed (N Tags (N
Distance from high tide: 20 Ft.
Carapace length 44 in. (Curved) Carapace width 41 in.
Carapace length 42 in. (Straight) Carapace width 31 in.
Nest treatment: M = Marked only (W) = Wire cage (R) = Relocated H = Hatchery Time moved: 0125-0200
Relocated where? 0.6 miles north of Riseley's Pier in low dunes
Number of eggs: whole: 136 broken: 0 nest depth: 15 in.
Comments (predation, description of turtle, etc) CC w/tags 221 & 212 return of N#60 (size 1.75 - 1.80 inches) HATCHING DATA Date nest hatched: 10/19/87 (estimate?) Excavated by: A.C. HENRY, JR. Date excavated: 10/22-23/87
Hatched eggs, from which hatchlings escaped from egg $H = 110$
Hatched, escaped from nest $HE = 60$ Hatched, dead in nest $HD = 5$ Hatched, alive in nest $HA = 45$
Unhatched eggs UH = 26
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest SP = HE + HA = 77 %
Comments (factors affecting hatching success, deformed hatchlings, etc) Late nest, weather cool - cold.
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh, North Carolina 27611.



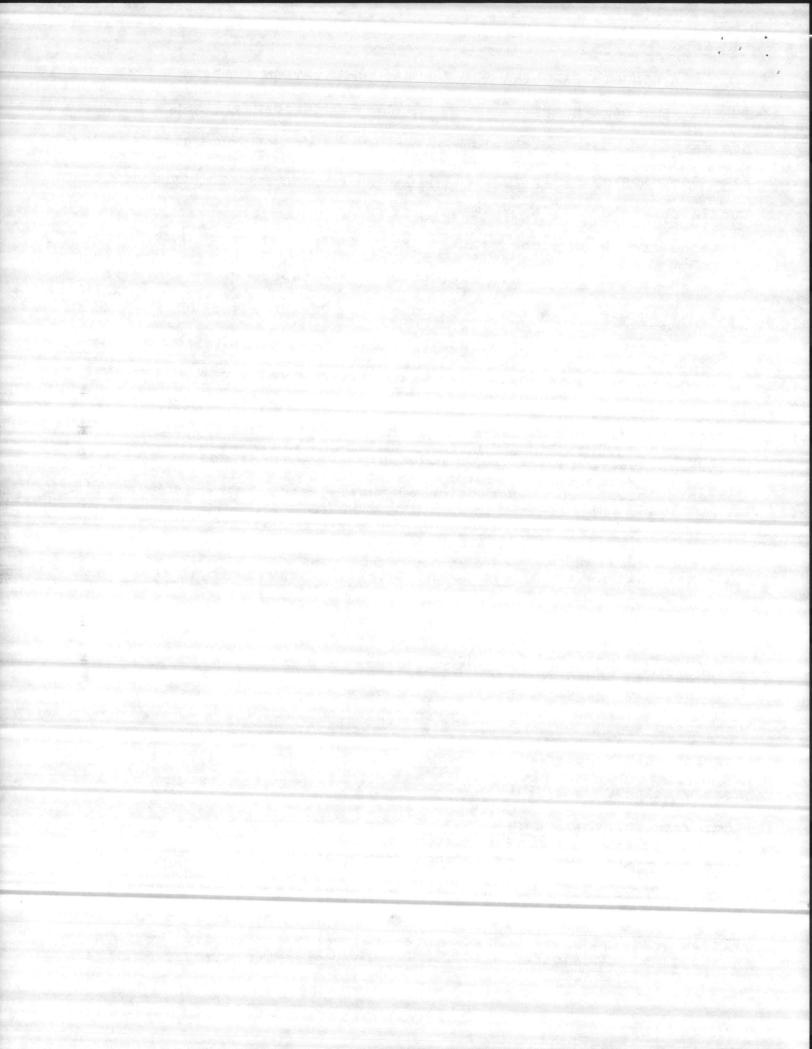
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 100 Date nest laid 8/9/87 Time laid 0220 (estimate)
Site Description 1.95 miles north of Riseley's Pier, at base of 10' dune
Turtle observed N Tags N
Distance from high tide: 90 Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length N/A in. (Straight) Carapace width N/A in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: 0630-0730
Relocated where?3 miles north of Riseley's Pier
Number of eggs: whole: 147 broken: 0 nest depth: 20 in.
#218 during the process) 79° F, 147 total eggs, none broken/Tag #071 (See FC#26/6/25 HATCHING DATA Date nest hatched: 10/20/87 (estimate?) Excavated by: A.C. HENRY, JR. Date excavated: 11/13/87
Hatched eggs, from which hatchlings escaped from egg $H = 117$
Hatched, escaped from nest $HE = \frac{3}{25}$ Hatched, dead in nest $HD = \frac{25}{89}$
Unhatched eggs $UH = 30$
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HE + HA}{H + UH} = \frac{63}{\%}$
Comments (factors affecting hatching success, deformed hatchlings, etc) Late nest hatching weather cold.
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh, North Carolina 27611.



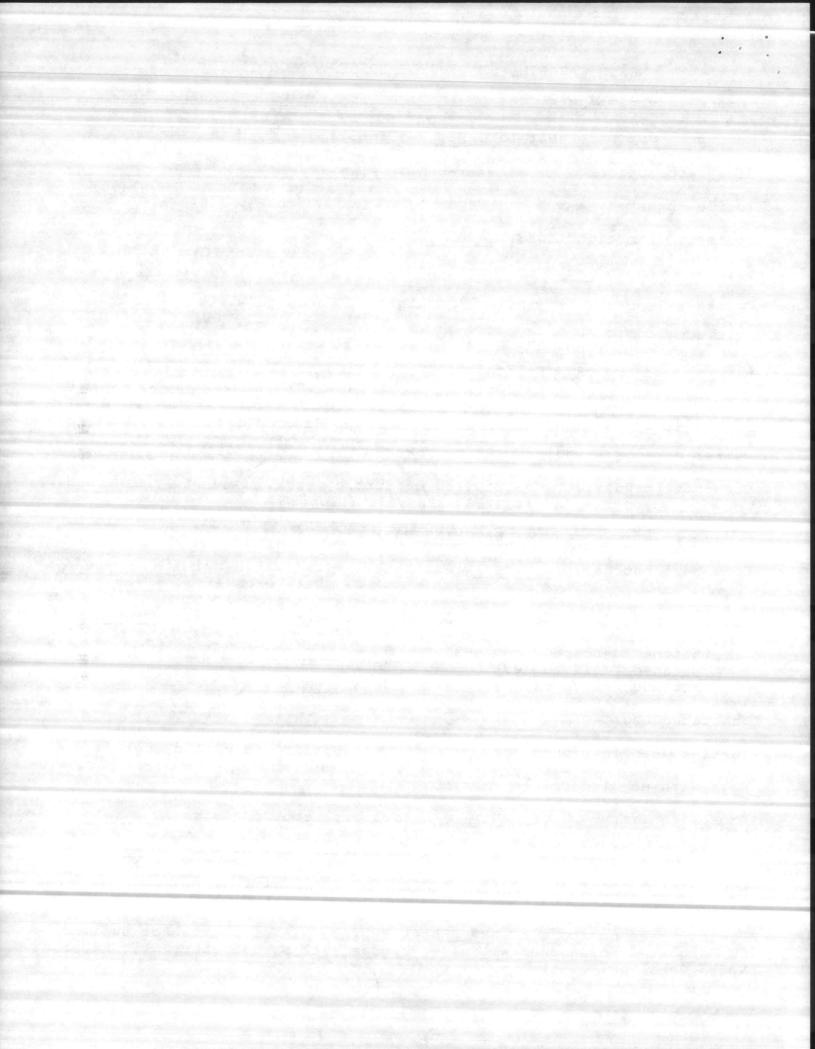
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 101 Date nest laid 8/9/87 Time laid 0320 (estimate)
Site Description 1.3 miles north of Riseley's Pier. in lighted, congested area.
Turtle observed (Y) N Tags Y(N)
Distance from high tide: 40 Ft.
Carapace length 36 in. (Curved) Carapace width 33 in.
Carapace length 32 in. (Straight) Carapace width 23 1/2 in.
Nest treatment: M = Marked only W = Wire cage R = Relocated Time moved: 0400-0430 H = Hatchery Time moved:
Number of eggs: whole: 94 broken: 0 nest depth: 18 in.
79° F nest temp. 94 total eggs, none broken HATCHING DATA Date nest hatched: 10/17/87 (estimate?) Excavated by: A.C. HENRY, JR. Date excavated: 10/19/87
Hatched eggs, from which hatchlings escaped from egg $H = 81$
Hatched, escaped from nest $HE = 46$ Hatched, dead in nest $HD = 8$ Hatched, alive in nest $HA = 27$
Unhatched eggs UH = 13
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo $<$ 3 cm N/A Eggs with embryo $>$ 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HE + HA}{H + UH} = \frac{78}{\%}$
Comments (factors affecting hatching success, deformed hatchlings, etc) Weather turning cool
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh, North Carolina 27611.



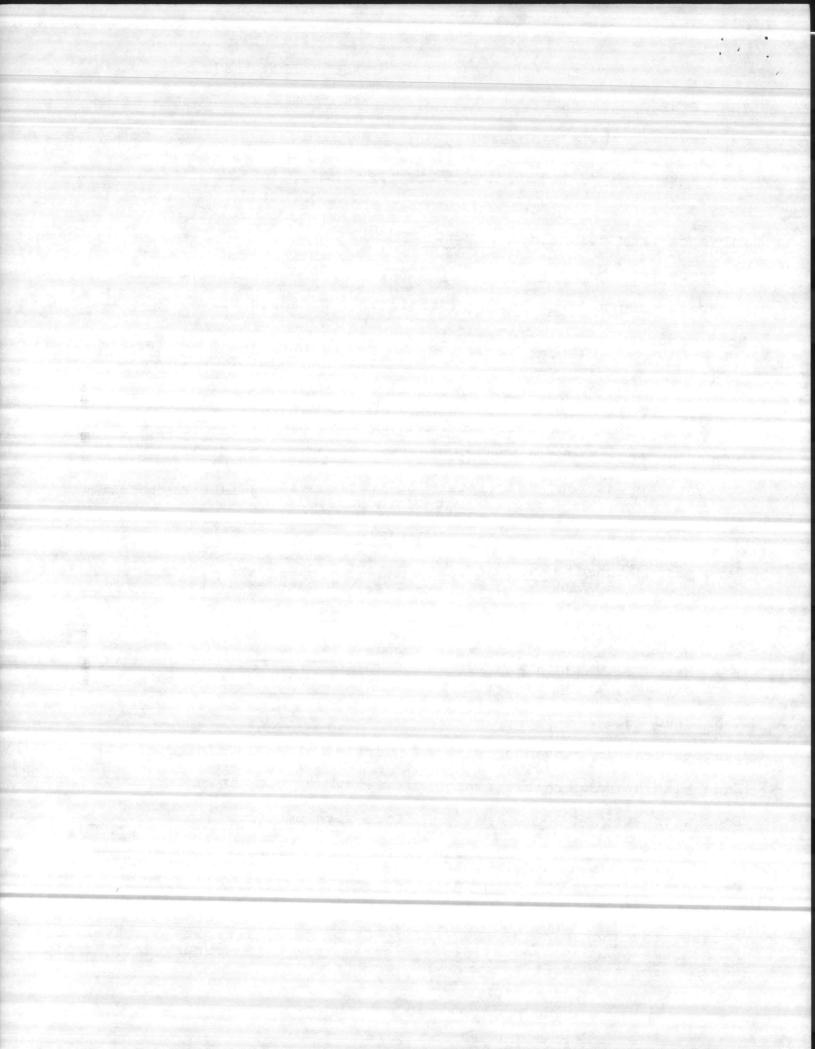
TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 104 Date nest laid 8/11/87 Time laid 0135 (extracte)
Site Description 1.2 miles south of Riseley's Pier. Air temp 78° F
Turtle observed N Tags Y N
Distance from high tide: 30 Ft.
Carapace length 40 in. (Curved) Carapace width 371/2 in.
Carapace length 37 in. (Straight) Carapace width 27 in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: Time moved: Time moved:
Relocated where? 0.5 miles north of Riseley's Pier
Number of eggs: whole: 102 broken: 0 nest depth: 18 in. Egg size 1.55 - 1.75"
Comments (predation, description of turtle, etc) 32 track CC with no tags. Lots of trouble with tags-ended up with AAR-222 in left & 224 in right flipper. Neither very good. Turtle made a long 250' crawl with a nest started 20' closer to water. HATCHING DATA Date nest hatched: 10/27/87 (estimate?) Excavated by: A.C. HENRY JED Date excavated: 11/10/87
Hatched eggs, from which hatchlings escaped from egg $H = 88$
Hatched, escaped from nest $HE = 8$ Hatched, dead in nest $HD = 6$ Hatched, alive in nest $HA = 74$
Unhatched eggs . UH = 14 .
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = HE + HA = 80\%$ Comments (factors affecting hatching success, deformed hatchlings, etc) Weather turning cool
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh



TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 113 Date nest laid 8/13/87Time laid 0215 (estable)
Site Description 2.38 miles south of Riseley's Pier on top of low dune 75 (EGG SIZE 1.75 - 1.90
Turtle observed
Distance from high tide: 30 Ft.
Carapace length 46 1/4 in. (Curved) Carapace width 44 1/2 in.
Carapace length 43 1/2in. (Straight) Carapace width 37 1/2 in.
Nest treatment: M = Marked only W = Wire cage
R = Relocated Time moved: 0330-0355 H = Hatchery Time moved:
Relocated where? _ 0.45 miles north of Riseley's Pier
Number of eggs: whole: 162 broken: 1 nest depth: 20 in.
Comments (predation, description of turtle, etc) Return of #58 & 88 CM tag #207 missing - Add Tag #AAR-225 left flipper.
HATCHING DATA
Date nest hatched: 10/27/87 (estimate?) Excavated by: A.C. HENRY, JR. Date excavated: 10/28/87
그는 나는 그 그렇게 그 맛있다. 그렇게 하는 것이 없는 것이다. 그런데 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이다.
Hatched eggs, from which hatchlings escaped from egg. $H = 139$
Hatched, escaped from nest HE = 43
Hatched, dead in nest $HD = 50$
Hatched, alive in nest $HA = 46$
Unhatched eggs UH = 23
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HE + HA}{H + UH} = \frac{55 \%}{H + UH}$
Comments (factors affecting hatching success, deformed hatchlings, etc) The 50 dead were found at the top of the nest & w/in 20' of nest. Cold weather
got most of them. Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh,

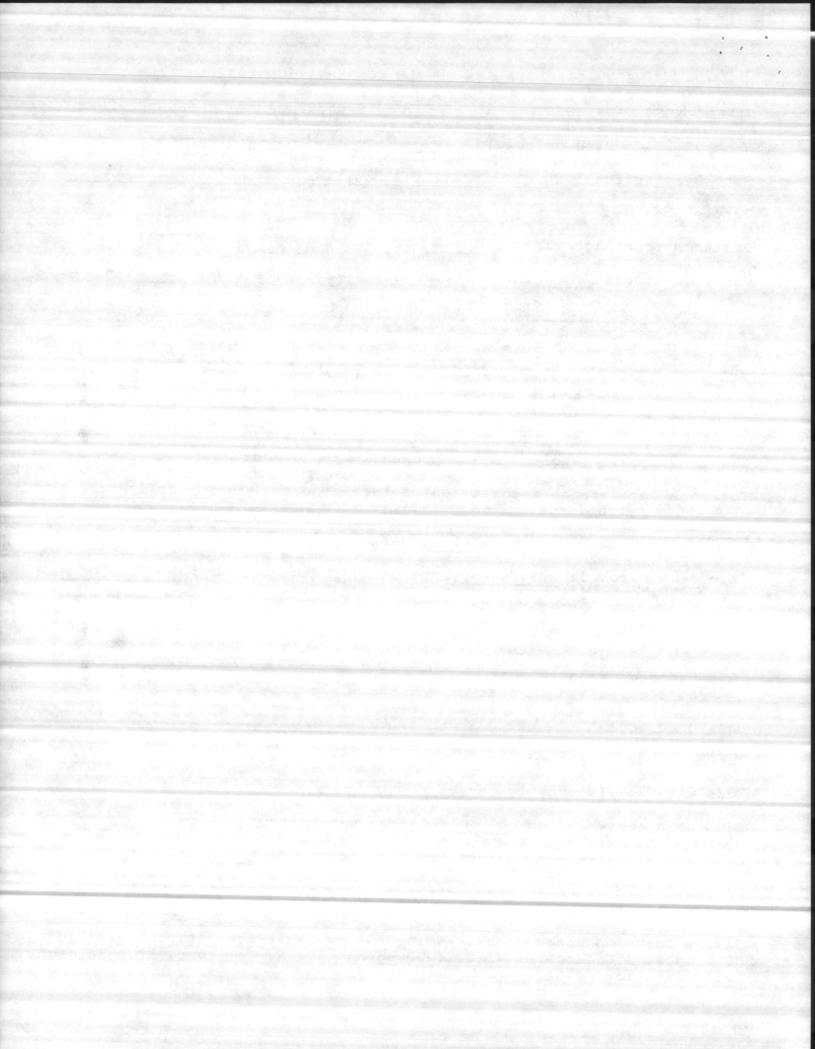


TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 118 Date nest laid 8/20/8 Time laid 2330 (estimate)
Site Description 3.1 miles north of Riseley's Pier
Turtle observed Y N Tags Y N
Distance from high tide: 35 Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length N/A in. (Straight) Carapace width N/A in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: 0730 (8/21/87) Time moved:
Relocated where? 2.0 miles north of Riseley's Pier
Number of eggs: whole: 114 broken: 0 nest depth: 21 in.
Unhatched after Date nest hatched: 85 days (estimate?) Excavated by: A.C. HENRY Date excavated: 11/13/87
Hatched eggs, from which hatchlings escaped from egg $H = 0$
Hatched, escaped from nest $HE = 0$ Hatched, dead in nest $HD = 0$ Hatched, alive in nest $HA = 0$
Unhatched eggs UH = 114
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo< 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest SP = HE + HA = 0 %
Comments (factors affecting hatching success, deformed hatchlings, etc) Nest never hatched - checked after 85 days cold weather probably burt hatchings.
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh North Carolina 27611.



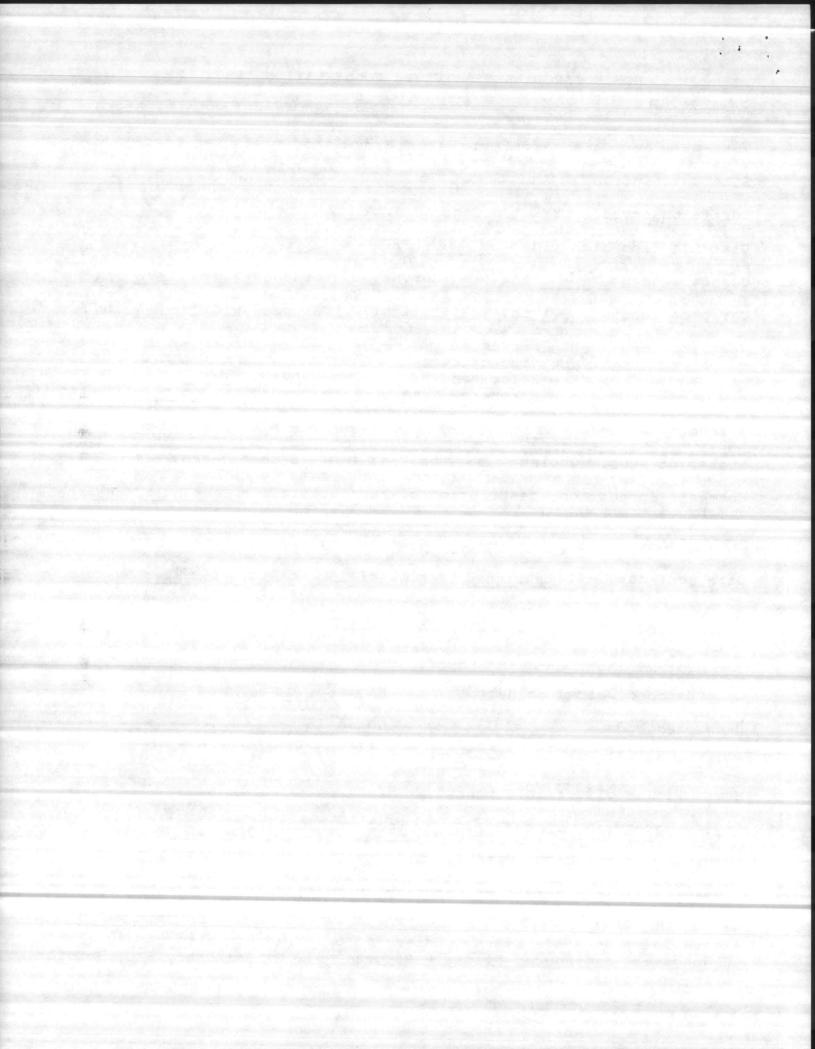
NORTH CAROLINA SEA TURTLE CONSERVATION 1987

TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 122 Date nest laid N/A Time laid N/A (estimate)
Site Description Next ot Officer's pavilion
Turtle observed Y N Tags Y N
Distance from high tide: N/A Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length N/A in. (Straight) Carapace width N/A in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: Time moved:
Number of eggs: whole: N/A broken: N/A nest depth: N/A
Date nest hatched: 8/24/87 (estimate?) Excavated by: N/A
Date excavated:
Hatched eggs, from which hatchlings escaped from egg H = 6 (estimate)
Hatched, escaped from nest $HE = 6 \text{ est.}$ Hatched, dead in nest $HD = N/A$ Hatched, alive in nest $HA = N/A$
Unhatched eggs $ UH = N/A $
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo 3 cm N/A Eggs with embryo 3 cm N/A
Survival Percentage of hatchlings from nest $SP = \frac{HE + HA}{H + UH} = \frac{50}{\%}$
Comments (factors affecting hatching success, deformed hatchlings, etc) Nest never located, only hatched turtles found, 3 dead, 3 alive.
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh,



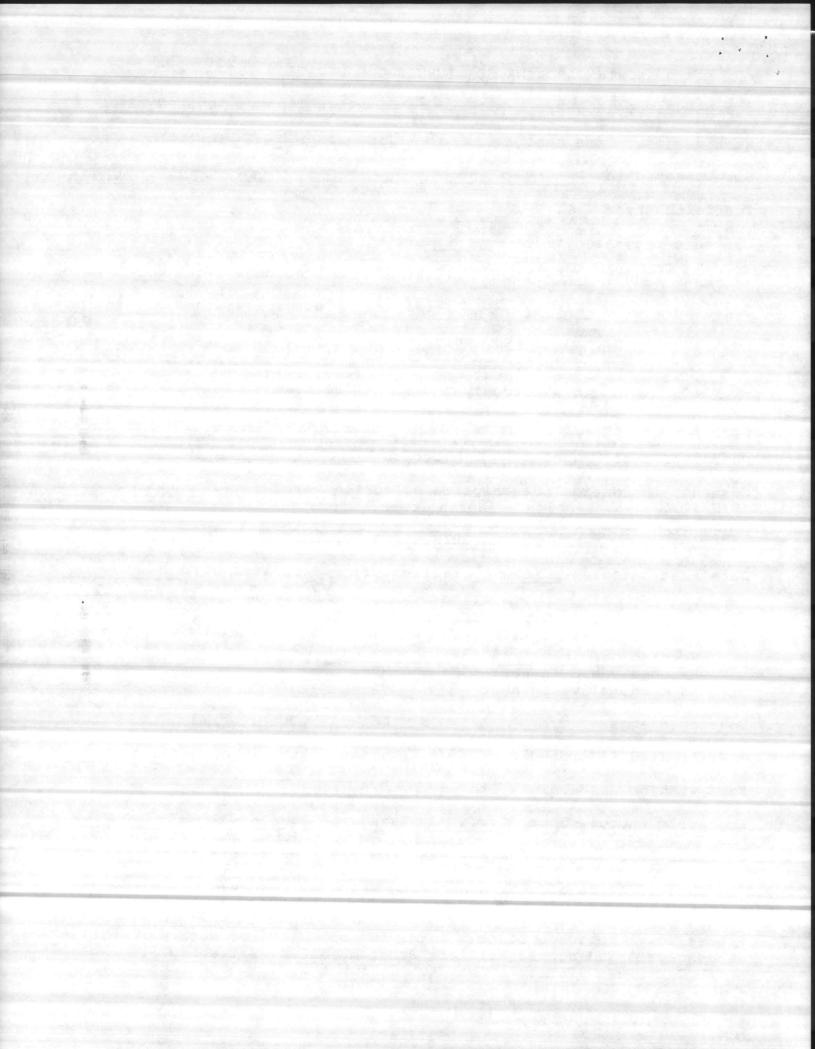
NORTH CAROLINA SEA TURTLE CONSERVATION 1987

TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 123 Date nest laid 8/28/87Time laid 0100 (estimate)
Site Description 150' from HT line between two patches of trees.
Turtle observed Y N Tags Y N
Distance from high tide: 150 Ft.
Carapace length $\frac{N/A}{}$ in. (Curved) Carapace width $\frac{N/A}{}$ in.
Carapace length $\frac{N/A}{}$ in. (Straight) Carapace width $\frac{N/A}{}$ in.
Nest treatment: M = Marked only W = Wire cage R = Relocated H = Hatchery Time moved: 0930 Time moved:
Relocated where?2 miles north of Riseley's Pier
Number of eggs: whole: 165 broken: 0 nest depth: 36 in.
Comments (predation, description of turtle, etc) Deep nest, huge hole
dug to cover up eggs.
dug to cover up eggs. HATCHING DATA
HATCHING DATA
HATCHING DATA Date nest hatched: Unhatched (estimate?) Excavated by: A.C. HENRY JR.
Date nest hatched: Unhatched (estimate?) Excavated by: A.C. HENRY JR. Date excavated: 11/17/87
Date nest hatched: Unhatched (estimate?) Excavated by: A.C. HENRY JR. Date excavated: $\frac{11}{17/87}$ Hatched eggs, from which hatchlings escaped from egg H = $\frac{0}{18}$ Hatched, escaped from nest HE = $\frac{0}{18}$ Hatched, dead in nest HD = $\frac{0}{18}$
HATCHING DATA Date nest hatched: Unhatched (estimate?) Excavated by: A.C. HENRY JR. Date excavated: 11/17/87 Hatched eggs, from which hatchlings escaped from egg H = 0 Hatched, escaped from nest HE = 0 Hatched, dead in nest HD = 0 Hatched, alive in nest HA = 0
Date nest hatched: Unhatched (estimate?) Excavated by: A.C. HENRY JR. Date excavated: 11/17/87 Hatched eggs, from which hatchlings escaped from egg H = 0 Hatched, escaped from nest HE = 0 Hatched, dead in nest HD = 0 Hatched, alive in nest HA = 0 Unhatched eggs UH = 165
Date nest hatched: Unhatched (estimate?) Excavated by: A.C. HENRY Date excavated: $\frac{11}{17/87}$ Hatched eggs, from which hatchlings escaped from egg $\frac{11}{17/87}$ Hatched, escaped from nest $\frac{11}{17/87}$ Hatched, dead in nest $\frac{11}{17/87}$ Unhatched eggs $\frac{11}{17/87}$ Unhatched eggs $\frac{11}{17/87}$ Unhatched eggs $\frac{11}{17/87}$ Unhatched eggs $\frac{11}{17/87}$ Turtles dead in pipped eggs $\frac{11}{165}$
Date nest hatched: Unhatched (estimate?) Excavated by: A.C. HENRY Date excavated: 11/17/87 Hatched eggs, from which hatchlings escaped from egg H = 0 Hatched, escaped from nest HE = 0 Hatched, dead in nest HD = 0 Hatched, alive in nest HA = 0 Unhatched eggs UH = 165 Turtles dead in pipped eggs N/A Eggs with no discernible embryo N/A Eggs with embryo 3 cm N/A Eggs with embryo 3 cm N/A
Date nest hatched: Unhatched (estimate?) Excavated by: A.C. HENRY URDate excavated: $\frac{11}{17/87}$ Hatched eggs, from which hatchlings escaped from egg H = 0 Hatched, escaped from nest HE = 0 Hatched, dead in nest HD = 0 Hatched, alive in nest HA = 0 Unhatched eggs UH = $\frac{165}{165}$ Turtles dead in pipped eggs $\frac{N}{A}$ Turtles alive in pipped eggs $\frac{N}{A}$ Eggs with no discernible embryo $\frac{N}{A}$



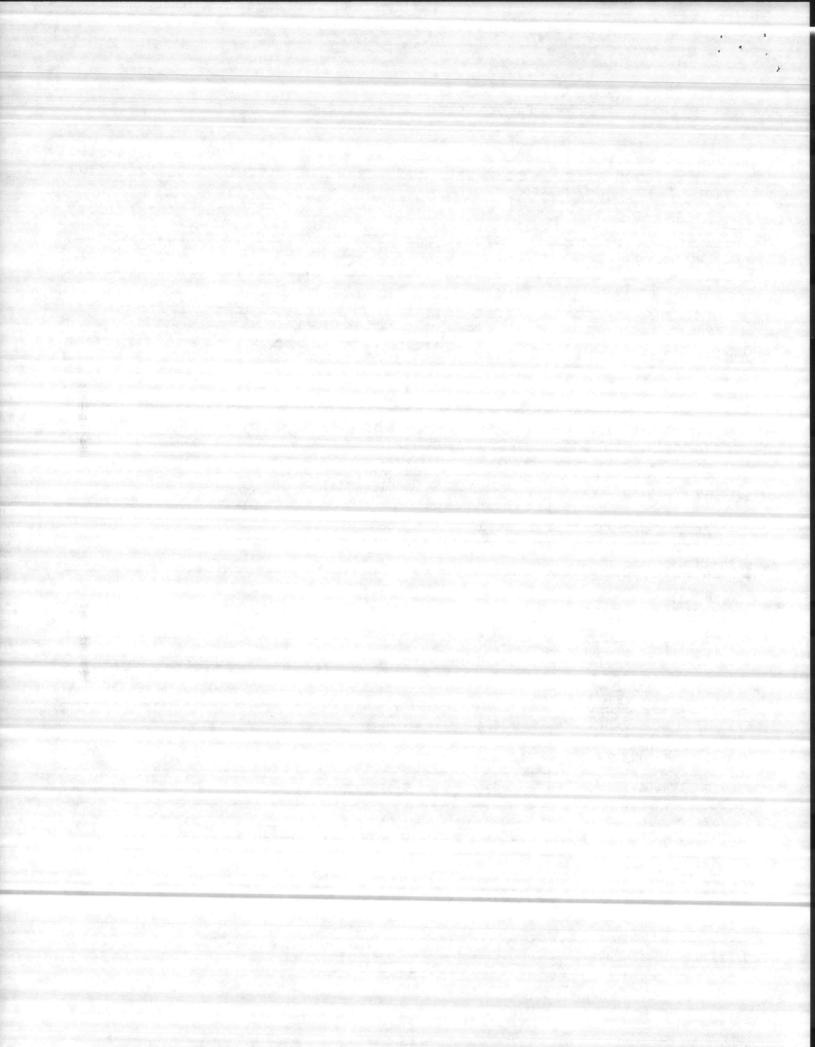
NORTH CAROLINA SEA TURTLE CONSERVATION 1987

TURTLE NEST DATA SHEET PROJECT NAME: ONSLOW BEACH
Nest # 125 Date nest laid N/A Time laid N/A (estimate)
Site Description About 400 yards north of N. Tower at base of sand dun
Turtle observed Y N Tags Y N
Distance from high tide: 30 Ft.
Carapace length N/A in. (Curved) Carapace width N/A in.
Carapace length N/A in. (Straight) Carapace width N/A in.
Nest treatment: M = Marked only W = Wire cage R = Relocated Time moved: H = Hatchery Time moved:
Relocated where? N/A
Number of eggs: whole: 156 broken: N/A nest depth: 28 in.
HATCHING DATA Date nest hatched: 10/8/87 (estimate?) Excavated by: DANNY JONES Date excavated: 10/8/87
Hatched eggs, from which hatchlings escaped from egg $H = 126$
Hatched, escaped from nest $HE = 85$ Hatched, dead in nest $HD = 5$ Hatched, alive in nest $HA = 36$
Unhatched eggs UH = 30
Turtles dead in pipped eggs N/A Turtles alive in pipped eggs N/A
Eggs with no discernible embryo N/A
Eggs with embryo < 3 cm N/A Eggs with embryo > 3 cm N/A
Survival Percentage of hatchlings from nest SP = HE + HA = 78 %
Comments (factors affecting hatching success, deformed hatchlings, etc) This nest was found hatching during morning beach patrol.
Please leave no space blank. Enter "O" or "N/A" for data not available NC Nongame & Endangered Wildlife Program, 512 N. Salisbury St., Raleigh, North Carolina 27611.



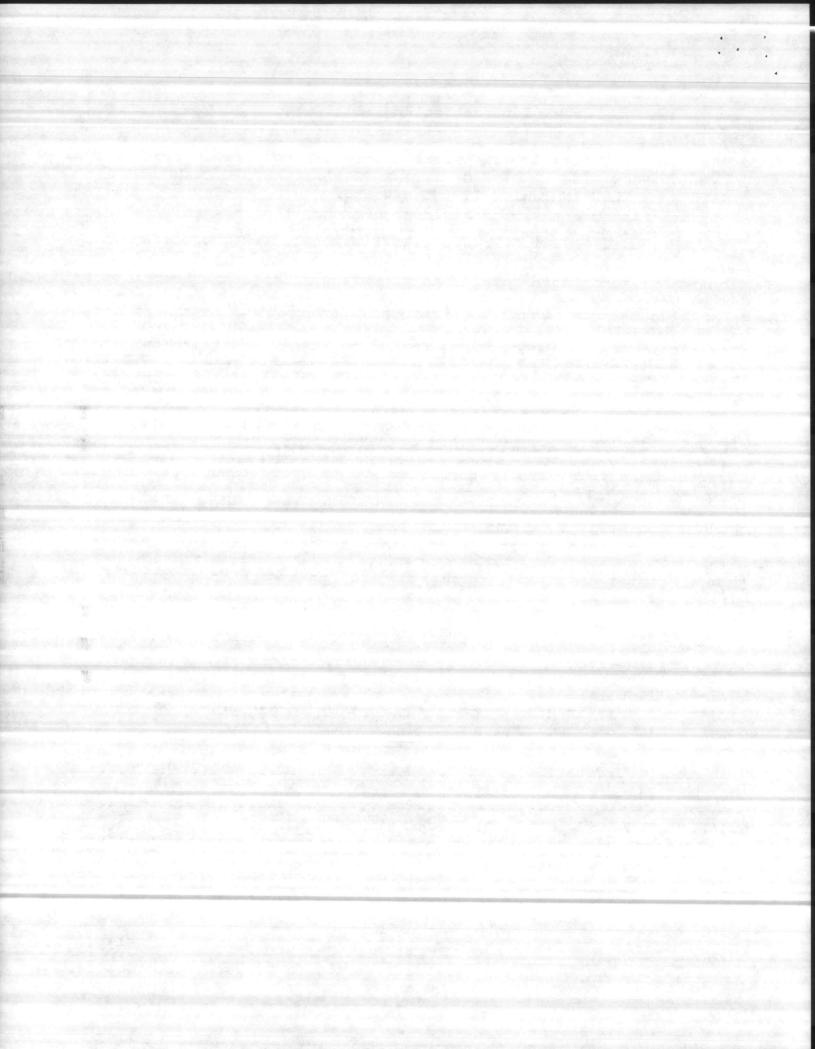
Crawl Information In Relation to Moon and Tidal Cycle

DATE	MOON RISE % ILLUMIN	TIME OF HIGH TIDE	TIME CRAWL W/O NEST	TIME CRAWL W/NEST	TOTAL
5/22/87	0211-30%	0322	0322		1
5/26/87	0402-03%	0643	0600		1
5/30/87	0701-05%	2220	2220/2220/2220		3
5/31/87	0758-10%	2223	2305/2305/2305/	2345	4
6/5/87	1253–52%	0126	0126/0222 0222/0222 ⁻	0126	5
5/8/87	1604-81%	0409	0409/0409		2
5/10/87	1831–95%	0555	0012		1
5/11/87	1946–99%	1917	2328		1
5/17/87	2400–66%	0001	0157/0345 0350		3
5/18/87	0015-55%	0051	0355		1
5/23/87	0238–10%	0533	0130/0400 0400		3
5/25/87	0403-02%	1923	2233		1
5/26/87	0455-00%	2002	2100/2300 2300		3
5/28/87	0649-03%	2118	0440/2340		2
5/29/87	0749-07%	2155	2300 .	2350	2
5/30/87	0847–12%	2234	0130		1
7/2/87	1043-27%	. 0002	0030/0045	ar transfer of the second of t	2
7/6/87	1454-67%	0231	0250/2210		2
7/7/87	1606-77%	0332	0120	0003	2
7/8/87	1720–86%	0435		0110/0130	22
7/11/87	2027–100%	0725	0400		<u>1</u>
7/12/87	2110-99%	2051	2350/2350		2
7/13/87	2 145–95%		2200/2230/2300		3



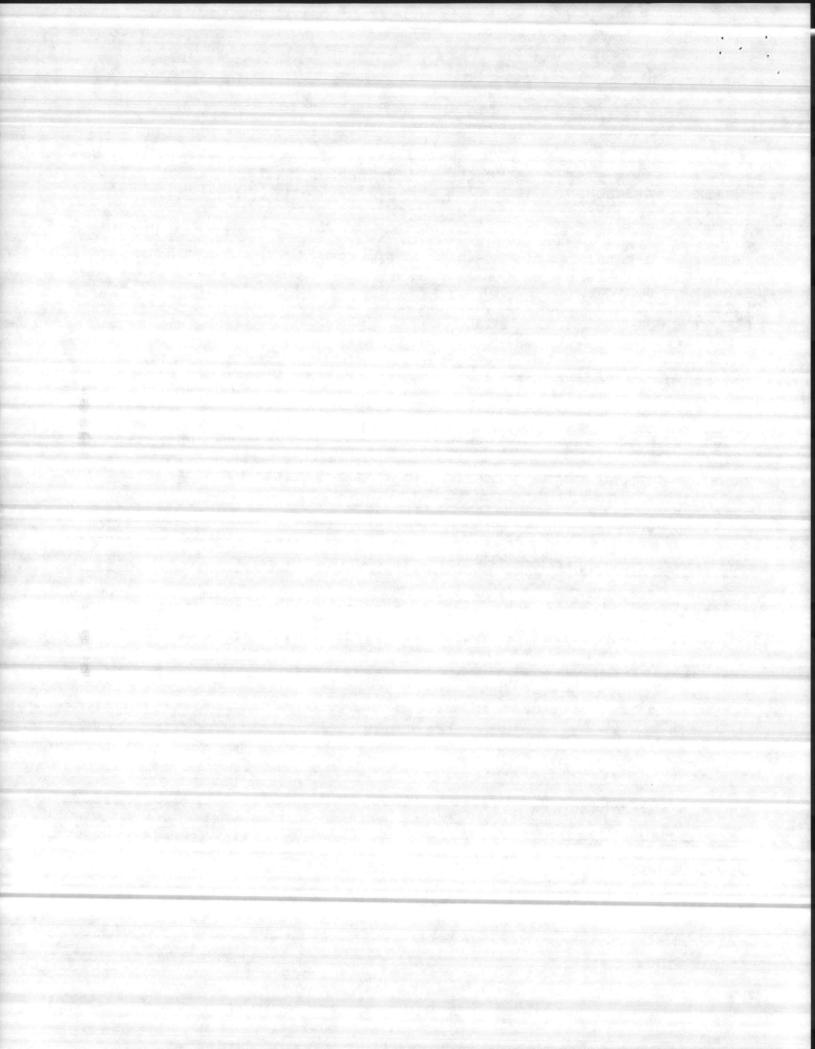
Crawl Information In Relation to Moon and Tidal Cycle

DATE	MOON RISE % ILLUMIN	TIME OF HIGH TIDE	TIME CRAWL W/O NEST	TIME CRAWL W/NEST	CRAWLS
7/15/87	2243–79%	2330	0239/2300	0325	3
7/16/87	2309–70%	2355	0005/2300		2
7/18/87	0000-49%	0115	0230		11
7/20/87	0039–29%	0320	0015/0320		2
7/21/87	0117-20%	0415		2350	11
7/24/87	0345-03%	1900		2255	1
7/26/87	0542-00%	2016	2200 2215/2230 0100/0100/0100/0100		4
7/27/87	0642-01% 0740-04%	2043	0130/2130/2349/2255 0000 0000/0315	0155	<u>9</u> 4
7/29/87	0838-09%	2155		0135	1
7/30/87	0935–15%	2234	0230/2345 2230/2315		44
3/1/87	1135-32%	2358		0100/2300	2
3/5/87	1610-74%	0307	0315		1
3/6/87	1716-83%	0417	2150	2330	2
3/7/87	1813-91%	0522	2300		1
3/8/87	1900–97%	0621	0335/0435 0530/2230 0015/0020		4
3/9/87	1939-100%	0717	0030/0330	0205/0300	6
3/10/87	2012-99%	2034	2230		1
/11/87	2042-96%	2124	2100/2100 2300/2300/2300	0135	6
3/12/87	2109-91%	2212	0200/2230 2300/2300/2300		5
3/13/87	2137–83%	2301		0125	1
3/15/87	2238–64%	0053	0100		1
3/17/87	2357–44%	0143	2200		1



Crawl Information In Relation to Moon and Tidal Cycle

DATE	MOON RISE % ILLUMIN	TIME OF HIGH TIDE	TIME CRAWL W/O NEST	TIME CRAWL W/NEST	TOTAL
8/20/87	0138-18%	1707		2330	1
8/22/87	0335-06%	0618	0120/0550	en e	2
8/25/87	0632-00%	0802	0100		1
8/27/87	0892-06%	2128		. 0001	1
* 6/12/87	2054–100%	2012	0105		1
* 6/27/87	0551-01%	2040	2321 	~	<u>l</u>
* 7/31/87	1043-23%	2313	0430	0205	5
	- 73 - 7 A.S.				
* LATE EN	TRIES		en e		



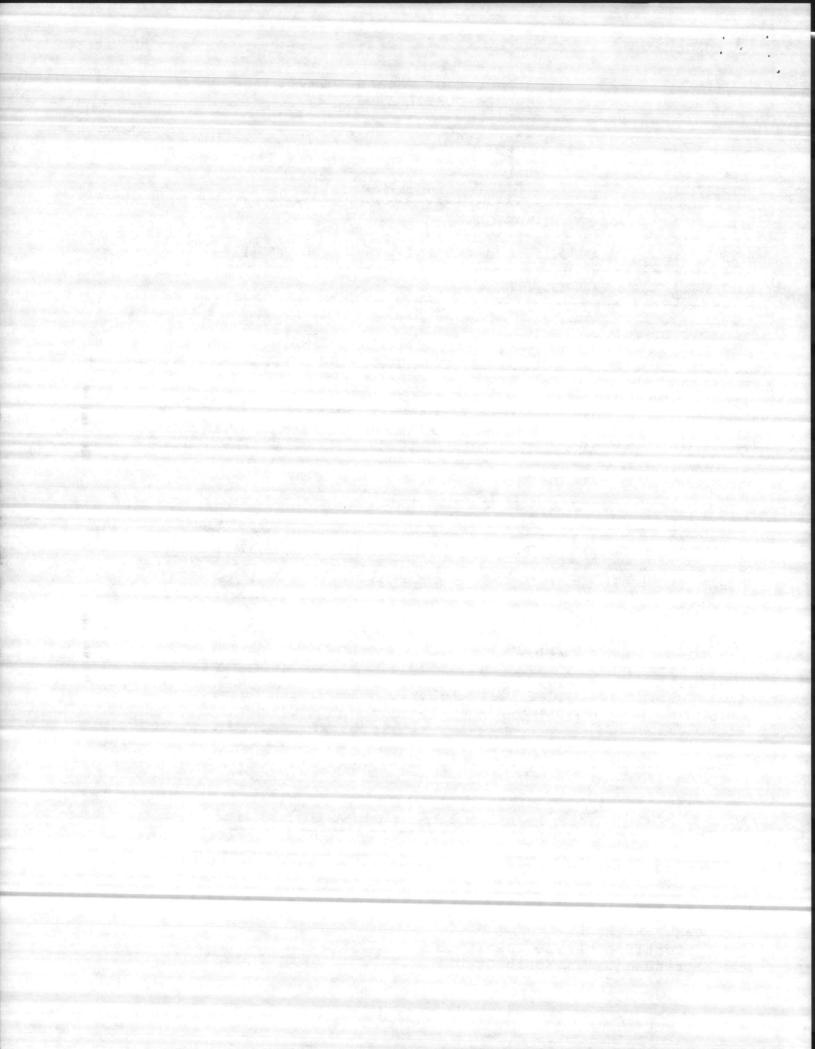
Return Record of Tagged Turtles 1987 SEA-TURTLE INVENTORY

6/12/87(1) 817 7/27/87(2) 6/17/87(1) MFS, MIAMI, FL 6/25/87(1) AAR-071 (a) 8/9/87(2) 8/22/87(1) 6/27/87(1) AAR-196/197 6/28/87(1) AAR-198 6/29/87(2) AAR-199/200 7/2/87(1) AAR-119 7/28/87(2) 7/6/87(1) AAR-119 7/28/87(2) 7/6/87(1) AAR-202/203 7/8/87(2) AAR-202/203 7/8/87(2) AAR-204/205 7/15/87(2) AAR-204/205 7/15/87(2) AAR-211/212 8/6/87(2) 7/26/87(2) AAR-211/212 8/6/87(2) 7/29/87(2) AAR-211/216 8/6/87(1) AAR-215/216 8/6/87(1) AAR-206/209 8/9/87(2) AAR-219/220 8/11/87(2) AAR-222/224	Date Tagged	Tag Number	Return	Return	Return
6/25/87(1) AAR-071 (a) 8/9/87(2) 8/22/87(1) 6/27/87(1) AAR-196/197 6/28/87(1) AAR-198 6/29/87(2) AAR-199/200 7/2/87(1) AAR-119 7/28/87(2) 7/6/87(1) AAR-105/201 7/7/87(1) 7/8/87(2) 7/31/87(1) 7/7/87(2) AAR-202/203 7/8/87(2) AAR-204/205 7/15/87(2) AAR-074 7/21/87(2) AAR-207/208 8/2/87(3) (b) 8/13/87(2) 7/26/87(2) AAR-211/212 8/6/87(2) 7/29/87(2) AAR-213/214 7/31/87(2) AAR-215/216 8/6/87(1) AAR-206/209 8/9/87(2) AAR-219/220	5/12/87(1)	817	7/27/87(2)		
6/27/87(1) AAR-196/197 6/28/87(1) AAR-198 6/29/87(2) AAR-199/200 7/2/87(1) AAR-119 7/28/87(2) 7/6/87(1) AAR-105/201 7/7/87(1) 7/8/87(2) 7/31/87(1) 7/7/87(2) AAR-202/203 7/8/87(2) AAR-204/205 7/15/87(2) AAR-274 7/21/87(2) AAR-27/208 8/2/87(3) (b) 8/13/87(2) 7/26/87(2) AAR-211/212 8/6/87(2) 7/29/87(2) AAR-213/214 7/31/87(2) AAR-215/216 8/6/87(1) AAR-206/209 8/9/87(2) AAR-219/220	6/17/87(1)	MFS, MIAMI, FL	e english da en		
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6/29/87(2) AAR-199/200 7/2/87(1) AAR-119 7/28/87(2) 7/6/87(1) AAR-105/201 7/7/87(1) 7/8/87(2) 7/31/87(1) 7/7/87(2) AAR-202/203 7/8/87(2) AAR-204/205 7/15/87(2) AAR-074 7/21/87(2) AAR-207/208 8/2/87(3) (b) 8/13/87(2) 7/26/87(2) AAR-211/212 8/6/87(2) 7/29/87(2) AAR-213/214 7/31/87(2) AAR-215/216 8/6/87(1) AAR-206/209 8/9/87(2) AAR-219/220	6/27/87(1)	AAR-196/197			
7/2/87(1) AAR-119 7/28/87(2) 7/6/87(1) AAR-105/201 7/7/87(1) 7/8/87(2) 7/31/87(1) 7/7/87(2) AAR-202/203 7/8/87(2) AAR-204/205 7/15/87(2) AAR-074 7/21/87(2) AAR-207/208 8/2/87(3) (b) 8/13/87(2) 7/26/87(2) AAR-211/212 8/6/87(2) 7/29/87(2) AAR-213/214 7/31/87(2) AAR-215/216 8/6/87(1) AAR-206/209 8/9/87(2) AAR-219/220	6/28/87(1)	AAR-198		the second of the second	
7/6/87(1) AAR-105/201 7/7/87(1) 7/8/87(2) 7/31/87(1) 7/7/87(2) AAR-202/203 7/8/87(2) AAR-204/205 7/15/87(2) AAR-074 7/21/87(2) AAR-207/208 8/2/87(3) (b) 8/13/87(2) 7/26/87(2) AAR-211/212 8/6/87(2) 7/29/87(2) AAR-213/214 7/31/87(2) AAR-215/216 8/6/87(1) AAR-206/209 8/9/87(2) AAR-219/220	6/29/87(2)	AAR-199/200			
7/7/87(2) AAR-202/203 7/8/87(2) AAR-204/205 7/15/87(2) AAR-074 7/21/87(2) AAR-207/208 8/2/87(3) (b) 8/13/87(2) 7/26/87(2) AAR-211/212 8/6/87(2) 7/29/87(2) AAR-213/214 7/31/87(2) AAR-215/216 8/6/87(1) AAR-206/209 8/9/87(2) AAR-219/220	7/2/87(1)	AAR-119	7/28/87(2)		
7/8/87(2) AAR-204/205 7/15/87(2) AAR-074 7/21/87(2) AAR-207/208 8/2/87(3) (b) 8/13/87(2) 7/26/87(2) AAR-211/212 8/6/87(2) 7/29/87(2) AAR-213/214 7/31/87(2) AAR-215/216 8/6/87(1) AAR-206/209 8/9/87(2) AAR-219/220	7/6/87(1)	AAR-105/201	7/7/87(1)	7/8/87(2)	7/31/87(1)
7/15/87(2) AAR-074 7/21/87(2) AAR-207/208 8/2/87(3) (b) 8/13/87(2) 7/26/87(2) AAR-211/212 8/6/87(2) 7/29/87(2) AAR-213/214 7/31/87(2) AAR-215/216 8/6/87(1) AAR-206/209 8/9/87(2) AAR-219/220	7/7/87(2)	AAR-202/203			
7/21/87(2) AAR-207/208 8/2/87(3) (b) 8/13/87(2) 7/26/87(2) AAR-211/212 8/6/87(2) 7/29/87(2) AAR-213/214 7/31/87(2) AAR-215/216 8/6/87(1) AAR-206/209 8/9/87(2) AAR-219/220	7/8/87(2)	AAR-204/205			
7/26/87(2) AAR-211/212 8/6/87(2) 7/29/87(2) AAR-213/214 7/31/87(2) AAR-215/216 8/6/87(1) AAR-206/209 8/9/87(2) AAR-219/220	7/15/87(2)	AAR-074			
7/29/87(2) AAR-213/214 7/31/87(2) AAR-215/216 8/6/87(1) AAR-206/209 8/9/87(2) AAR-219/220	7/21/87(2)	AAR-207/208	8/2/87(3)	(b) 8/13/87(2)	
7/31/87(2) AAR-215/216 8/6/87(1) AAR-206/209 8/9/87(2) AAR-219/220	7/26/87(2)	AAR-211/212	8/6/87(2)		tana ay
8/6/87(1) AAR-206/209 8/9/87(2) AAR-219/220	7/29/87(2)	AAR-213/214			
8/9/87(2) AAR-219/220	7/31/87(2)	AAR-215/216			
	8/6/87(1)	AAR-206/209		en e	
8/11/87(2) AAR-222/224	8/9/87(2)	AAR-219/220			
	8/11/87(2)	AAR-222/224			
	(a) 8/9/87(2) -	Turtle found iwt	ch only one tag A	AR-071, added tag	AAR-217
(a) 8/9/87(2) - Turtle found iwth only one tag AAR-071, added tag AAR-217	(b) 8/13/87(2)	- Turtle lost tag	AAR-207, Retago	ged with AAR-225	

⁽¹⁾ Crawl Without Nest

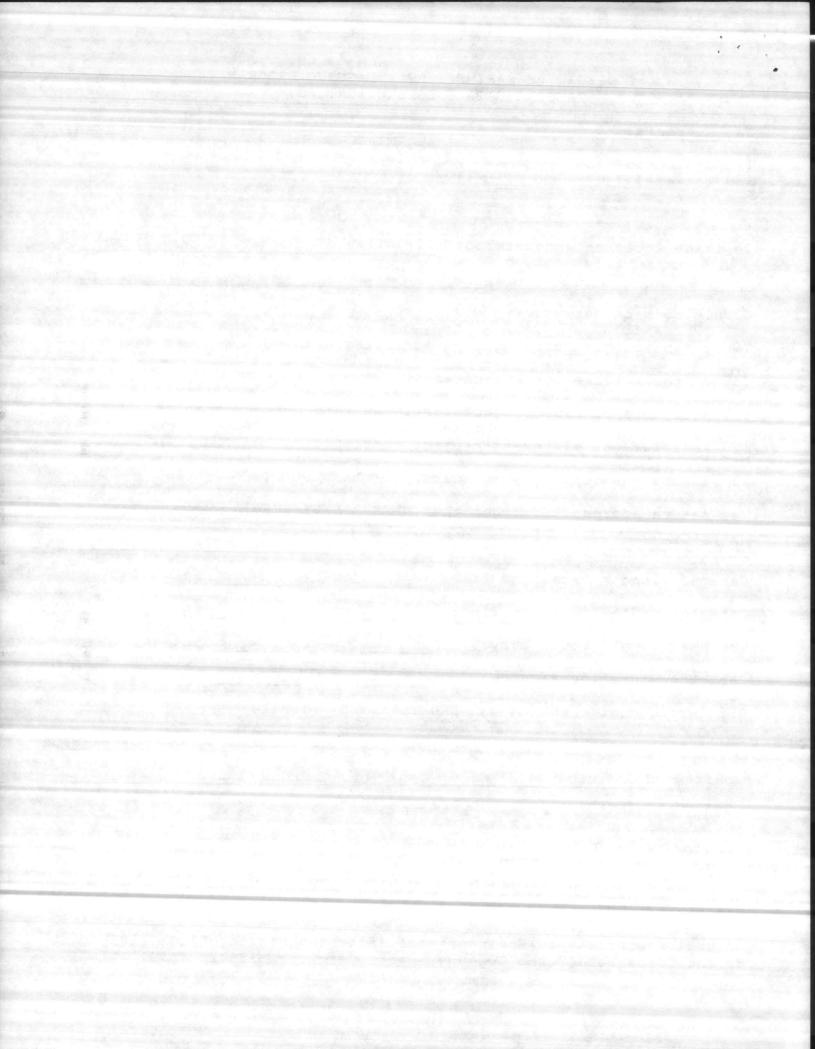
⁽²⁾ Crawl With Nest

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



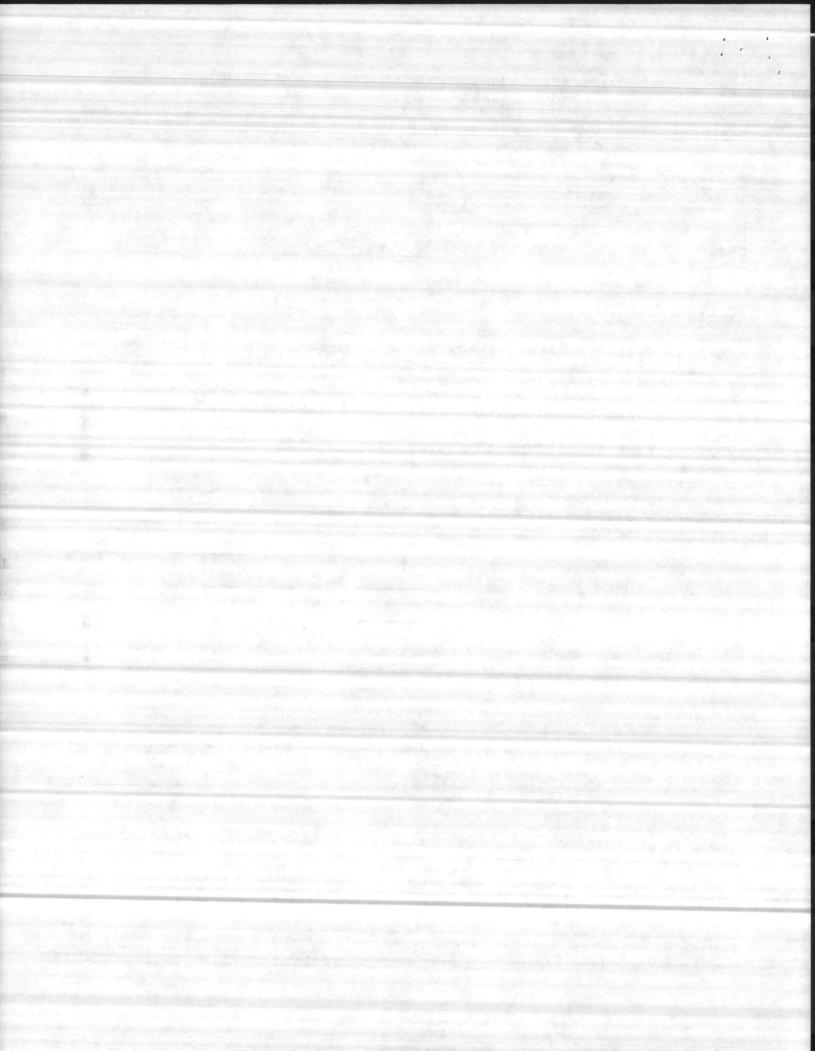
Tag Number(s)	817	Species _	CC	Date Enc	ountered	6/12/87
(list all tag and letters)	#'s Morehead Ci	ty; IMS				
Describe locat	tion encount	ered: 1.9	miles no	rth of Ri	seley's Pi	er,
Camp Lejeune,	North Carol	ina Crawl	#18.			
Circle correct	t answer:					
"New" turtle	(not carryin	g any tag o	r tag so	car)	YES (N	9
If no, then c	ircle correc	t category:				
(1) Recapture	of same pro	ject turtle	(within	n season o	or multi-a	nnual)
(2) Recapture	of differen	t project t	urtle			
(3) Turtle ha	s definite t	ag scars				
Tag return ad	dress (If ot	her than NM	IFS Lab/	Vir Key)	Institute	of
Marine Science	e, Morehead	City, North	Carolin	ıa		and the second
Carapace leng	th (straight	line)	cm	36	_ in.	
Carapace widt	h (straight	line)	cm	27	_ in.	
Carapace leng	th (over cur	ve)	cm	38	in.	
Carapace widt	h (over curv	/e)	cm	35	in.	
Did turtle ne	st? YES	O UNDETER	RMINED	(circle o	ne)	
Additional re	marks or dat	ta (use back	if nec	essary)	Turtle wa	as digging
nest when di	isturbed - No	eggs were	laid.	Tag on rig	ht flippe	r is
buried in fl	lesh and can	't be read.				

Organization Tagging:



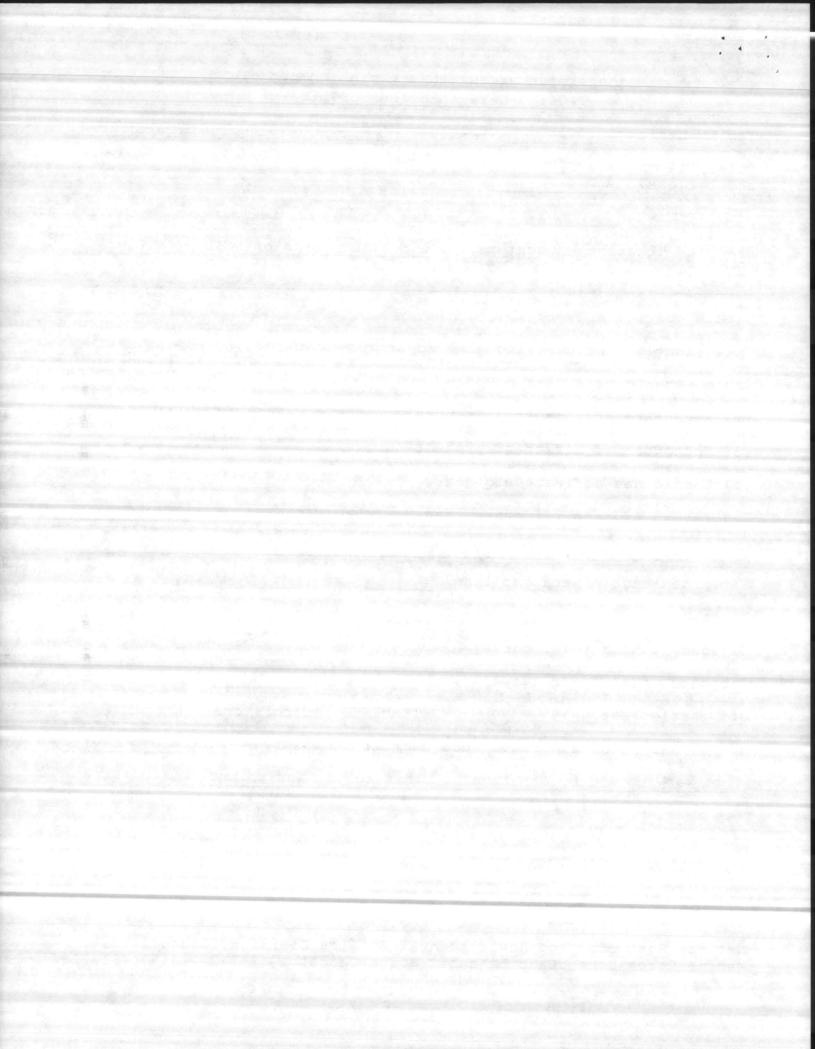
Tag Number(s) MFS, Miami, FLSpecies	CC I	Date Enc	ountered	6/17/87
(list all tag #'s and letters)				
Describe location encountered: 2.6 Crawl #20	miles sou	th of Ri	seley's E	Pier,
Circle correct answer:				
"New" turtle (not carrying any tag or	r tag sca	r)	YES (60
If no, then circle correct category:				
(1) Recapture of same project turtle	(within	season o	r multi-	annual)
(2) Recapture of different project to				•
(3) Turtle has definite tag scars				
Tag return address (If other than NM	FS Lab/Vi	r Key) <u>M</u>	liami. Flo	orida .
Carapace length (straight line)	cm	44	_ in	
Carapace width (straight line)	cm	32	in.	
Carapace length (over curve)	cm	52	in.	
Carapace width (over curve)	cm	39	in.	
Did turtle nest? YES NO UNDETER	MINED (c	ircle o	ne)	
Additional remarks or data (use back	if neces	ssary)	Curtle ha	d made
the cavity, but no eggs were laid.		1900		

Organization Tagging:



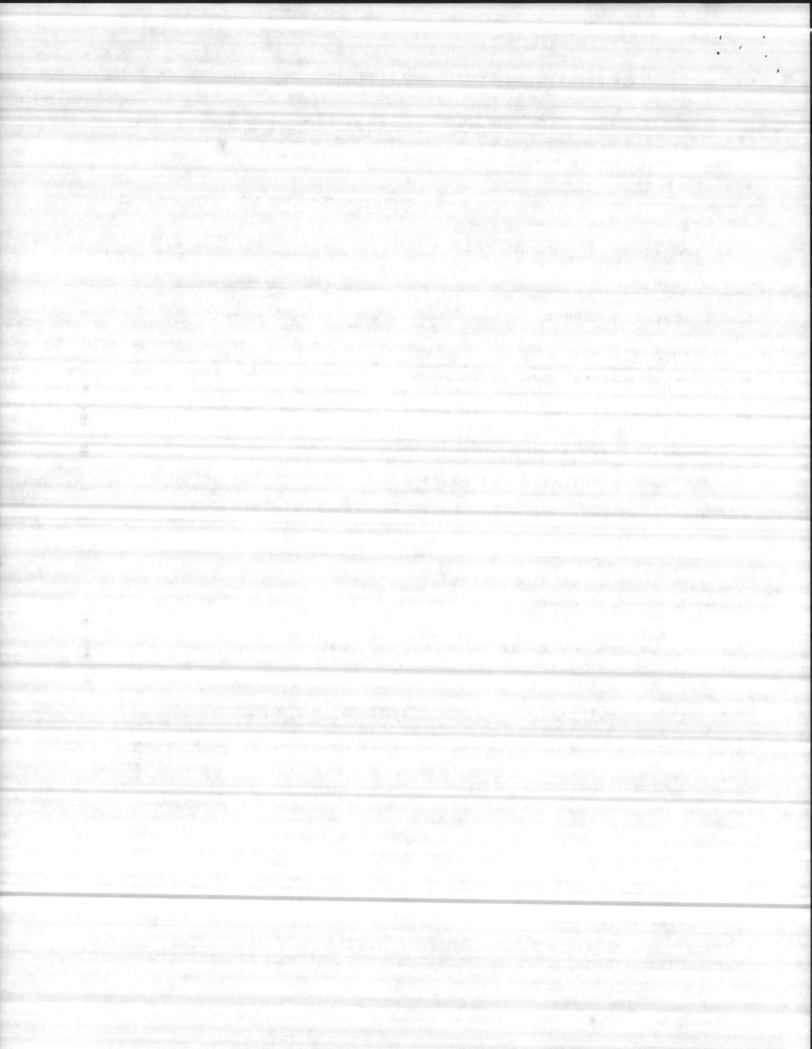
Tag Number(s) 071 Species _	CC I	Date Enc	ountered	6/25/87
(list all tag #'s and letters) AAR				
Describe location encountered: 1.8 Crawl #26	miles nor	th of Ri	seley's	Pier,
Circle correct answer:				
"New" turtle (not carrying any tag o	r tag sca	r)	YES (10
If no, then circle correct category:				
(1) Recapture of same project turtle	(within	season o	r multi-	annual)
2 Recapture of different project t	urtle			
(3) Turtle has definite tag scars				
Tag return address (If other than NM	FS Lab/Vi	r Key) <u>1</u>	Miami, Fl	orida
Carapace length (straight line)	cm	43	_ in.	
Carapace width (straight line)	cm	30	_ in.	
Carapace length (over curve)	cm	47	_ in.	
Carapace width (over curve)	cm	43	_ in.	
Did turtle nest? YES NO UNDETER	RMINED (c	ircle or	ne)	
Additional remarks or data (use back	if neces	sary)	Turtle du	ug cavity,
but was spooked by car lights. Thi	s turtle	was up a	nd nested	d twice
in 1985.				

Organization Tagging:



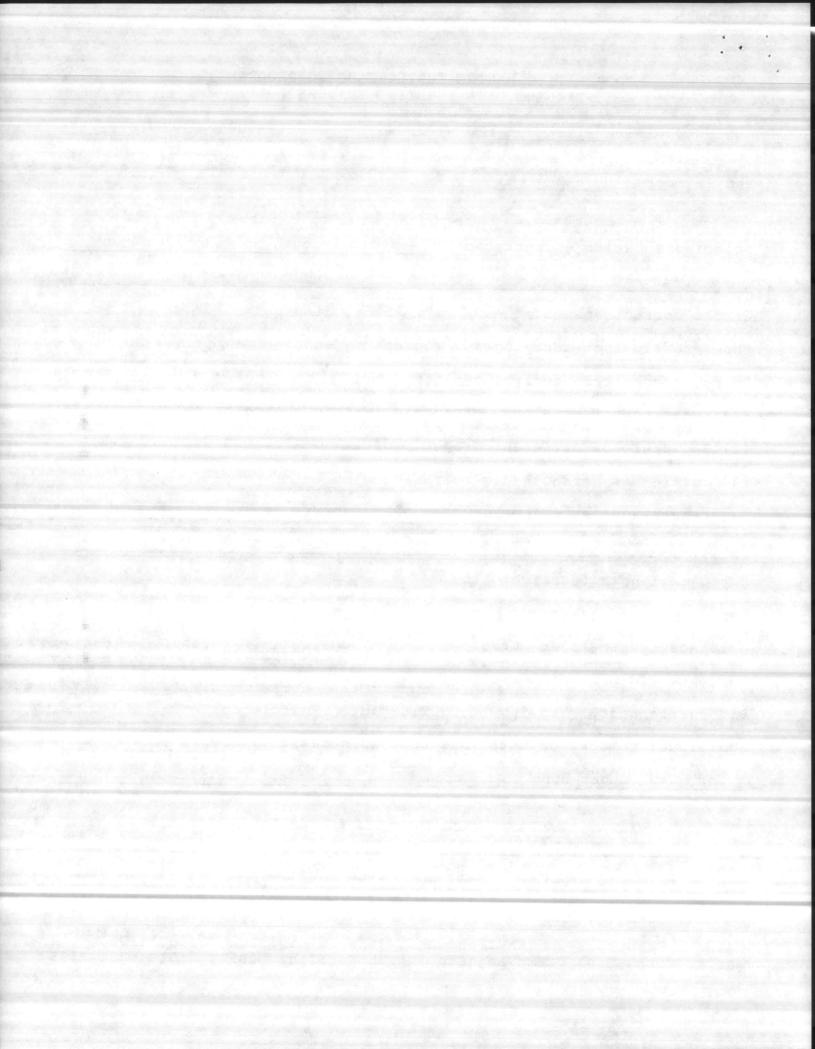
Tag Number(s) 196/197 Species	CC I	Date Enc	ountered 6	5/27/87
(list all tag #'s and letters) AAR				
Describe location encountered: 1.2 mg	iles sout	h of Ris	eley's Pie	er.
Crawl #30				
Circle correct answer: "New" turtle (not carrying any tag or If no, then circle correct category: (1) Recapture of same project turtle (2) Recapture of different project turtle (3) Turtle has definite tag scars Tag return address (If other than NMF	(within	season o	YES No	
Carapace length (straight line)	cm	38	_ in.	
Carapace width (straight line)	cm	29	_ in.	
Carapace length (over curve)	cm	40	_ in.	
Carapace width (over curve)	cm	36 1/	<u>4</u> in.	
Did turtle nest? YES NO UNDETERM	MINED (c	ircle or	ne)	
Additional remarks or data (use back	if neces	sary)	Half of ba	ck
right flipper was missing.			19	

Organization Tagging:



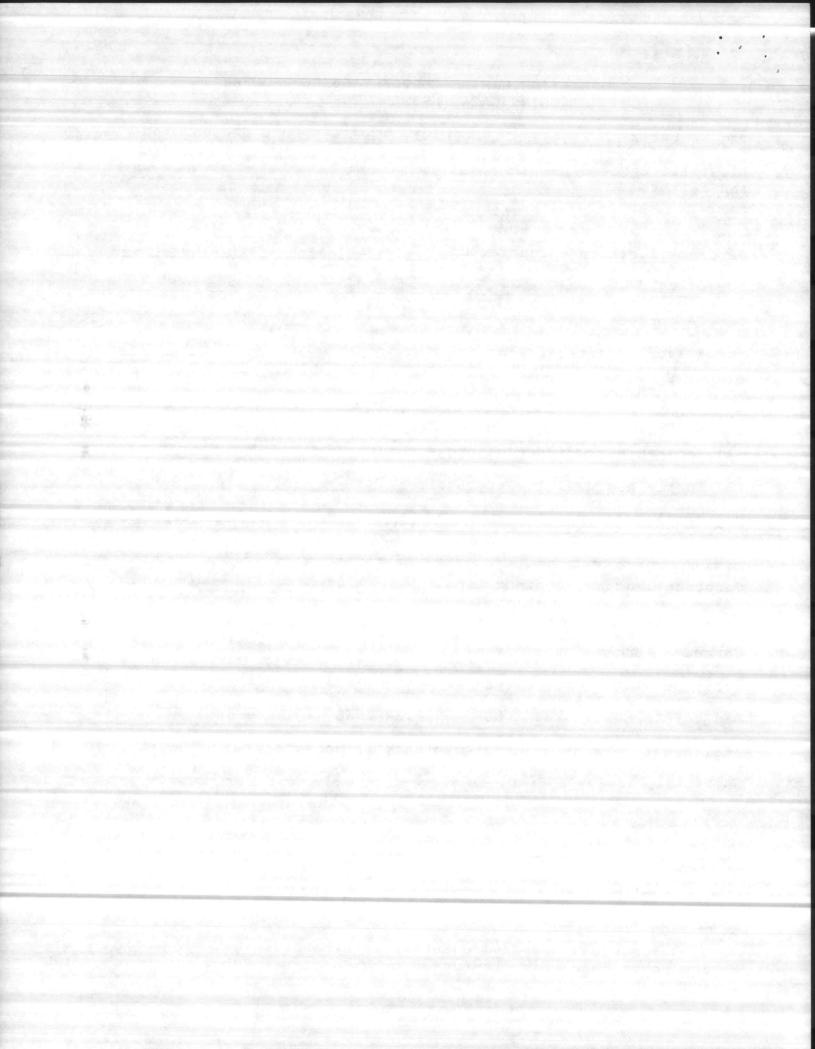
Tag Number(s) 198 Specie	es <u>CC</u>	Date Enc	ountered	6/28/87
(list all tag #'s and letters) AAR				
Describe location encountered: Crawl #31.	4.8 miles	south of R	iseley's	Pier,
Circle correct answer:				
"New" turtle (not carrying any t	ag or tag so	car)	YES N	10
If no, then circle correct categ	ory:			
(1) Recapture of same project tu	rtle (within	n season o	r multi-a	annual)
(2) Recapture of different proje	ct turtle			
(3) Turtle has definite tag scar	s			
Tag return address (If other than	n NMFS Lab/	Vir Key) _		
Carapace length (straight line)	cm	44	_ in.	
Carapace width (straight line)	cm	32	_ in.	
Carapace length (over curve)	cm	45	_ in.	
Carapace width (over curve)	cm	41	_ in.	
Did turtle nest? YES NO UNI	DETERMINED	(circle or	ne)	1124
Additional remarks or data (use	back •if nec	essary) _	Came in	at low
tide, was caught hung up in tre	es, helped h	er out.		1000

Organization Tagging:



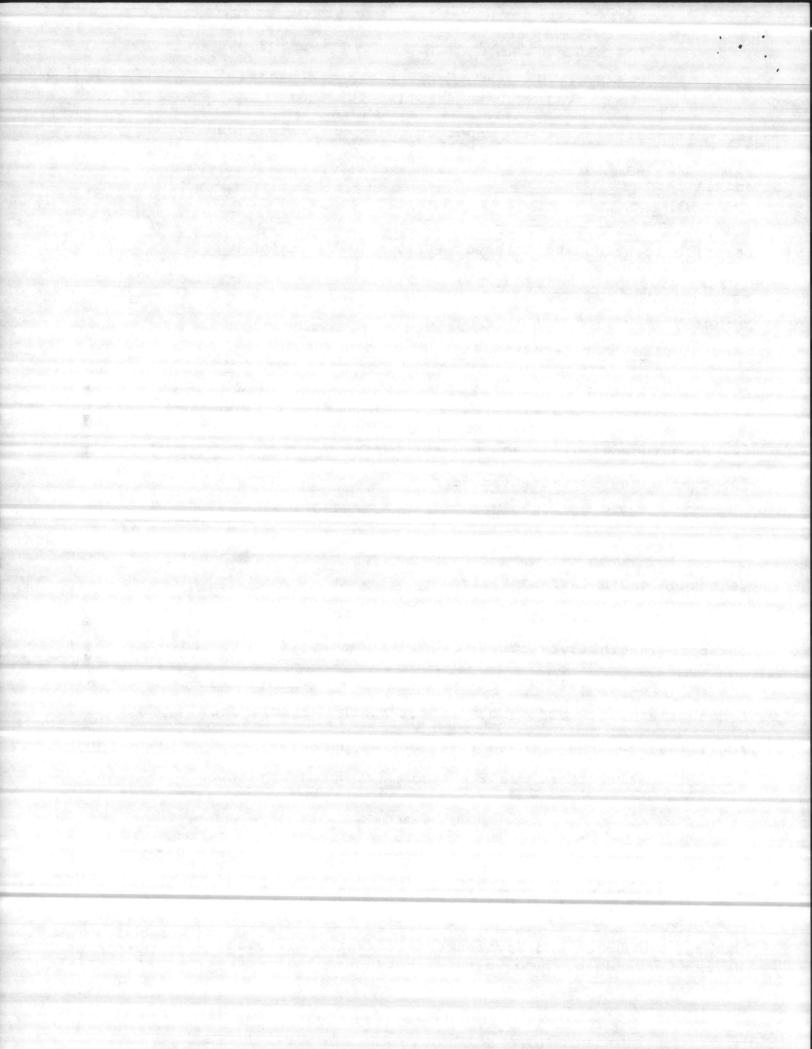
Tag Number(s) 199/200 Species	CC	Date Enc	ountered (5/29/87			
(list all tag #'s and letters) AAR							
Describe location encountered:							
Circle correct answer:							
"New" turtle (not carrying any tag or	r tag sca	r)	YES N	0			
If no, then circle correct category:							
(1) Recapture of same project turtle	(within	season o	or multi-a	nnual)			
(2) Recapture of different project to							
(3) Turtle has definite tag scars							
Tag return address (If other than NM	FS Lab/Vi	r Key)					
Carapace length (straight line)	cm	32	in.				
Carapace width (straight line)	cm	27	_ in.				
Carapace length (over curve)	cm	38	in.				
Carapace width (over curve)	cm	31	in.				
Did turtle nest? YES NO UNDETER		ircle o	ne)				
Additional remarks or data (use back				.5 miles			
north of Riseley's Pier. 128 eggs.							

Organization Tagging:



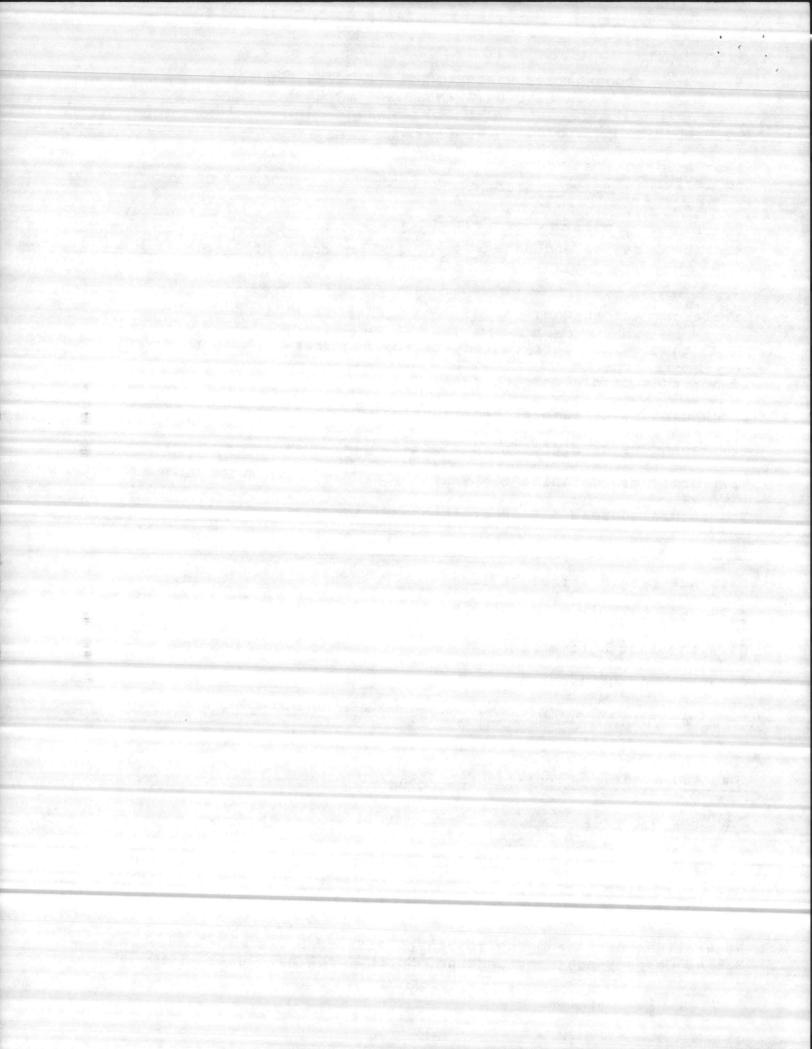
Tag Number(s) 119 Species	CC D	ate Enc	ountered 7/2/87
(list all tag #'s and letters) AAR			
			la la Dian
Describe location encountered: 2.6	miles sou	th of Ri	seley's Pier.
Crawl #37.			
Circle correct answer:			
"New" turtle (not carrying any tag	or tag scar	-)	YES NO
If no, then circle correct category:			
(1) Recapture of same project turtle		season o	r multi-annual)
(2) Recapture of different project			
	cur cro		
(3) Turtle has definite tag scars			
Tag return address (If other than NI	MFS Lab/Vi	Key) _	
Carapace length (straight line)	cm	34	_ in.
Carapace width (straight line)	cm	30	_ in.
Carapace length (over curve)	cm	39	_ in
Carapace width (over curve)	cm	35	_ in.
Did turtle nest? YES NO UNDETE	RMINED (c.	ircle or	ne)
Additional remarks or data (use bac	k if neces	sary) _	Turtle only had

Organization Tagging:



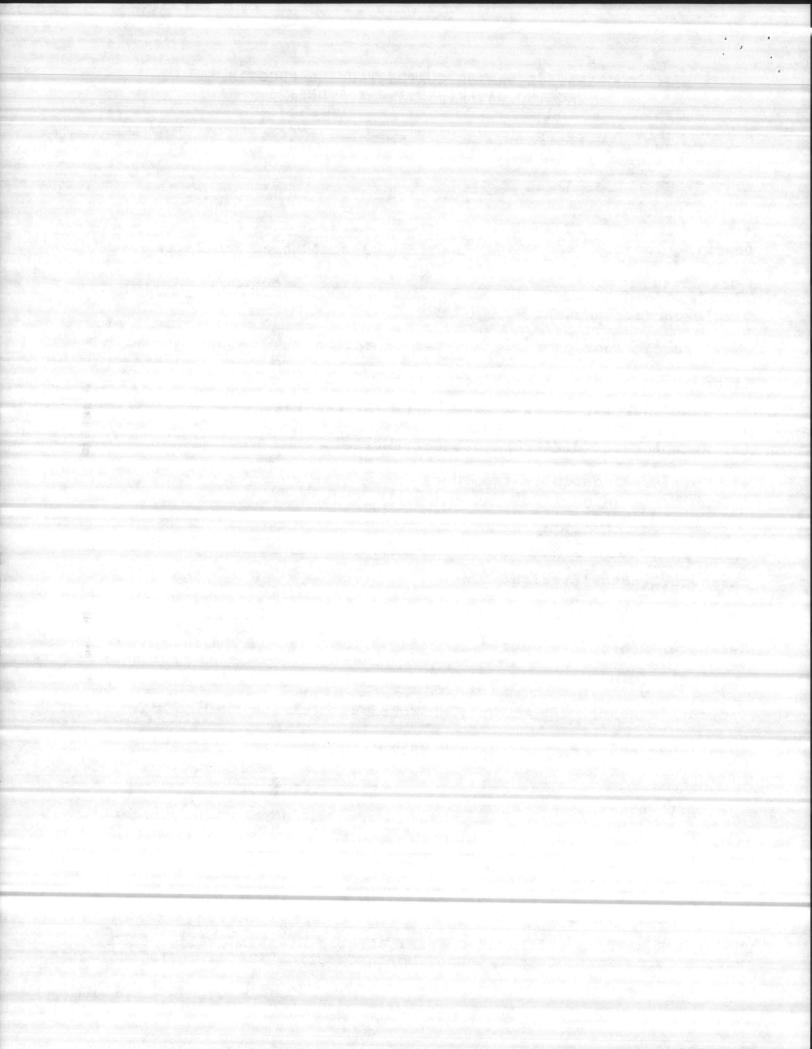
Tag Number(s) 105/201 Species	CC I	ate Encou	intered <u>7/6/87</u>			
(list all tag #'s and letters) AAR						
Describe location encountered: 1.0 miles south of Riseley's Pier,						
Crawl #38						
Circle correct answer:						
"New" turtle (not carrying any tag or	r tag scar	r)	YES NO			
If no, then circle correct category:						
Recapture of same project turtle	(within	season or	multi-annual)			
(2) Recapture of different project to	urtle					
(3) Turtle has definite tag scars						
Tag return address (If other than NM	FS Lab/Vi	r Key)				
Carapace length (straight line)	cm	37	in.			
Carapace width (straight line)	cm	31 .	in.			
Carapace length (over curve)	cm	38 1/2	in.			
Carapace width (over curve)	cm	37	in.			
Did turtle nest? YES NO UNDETER	MINED (c	ircle one)			
Additional remarks or data (use back	if neces	sary) <u>Cr</u>	awl -			
One tag missing - replaces with AAR-	201.	16.2.15				

Organization Tagging:



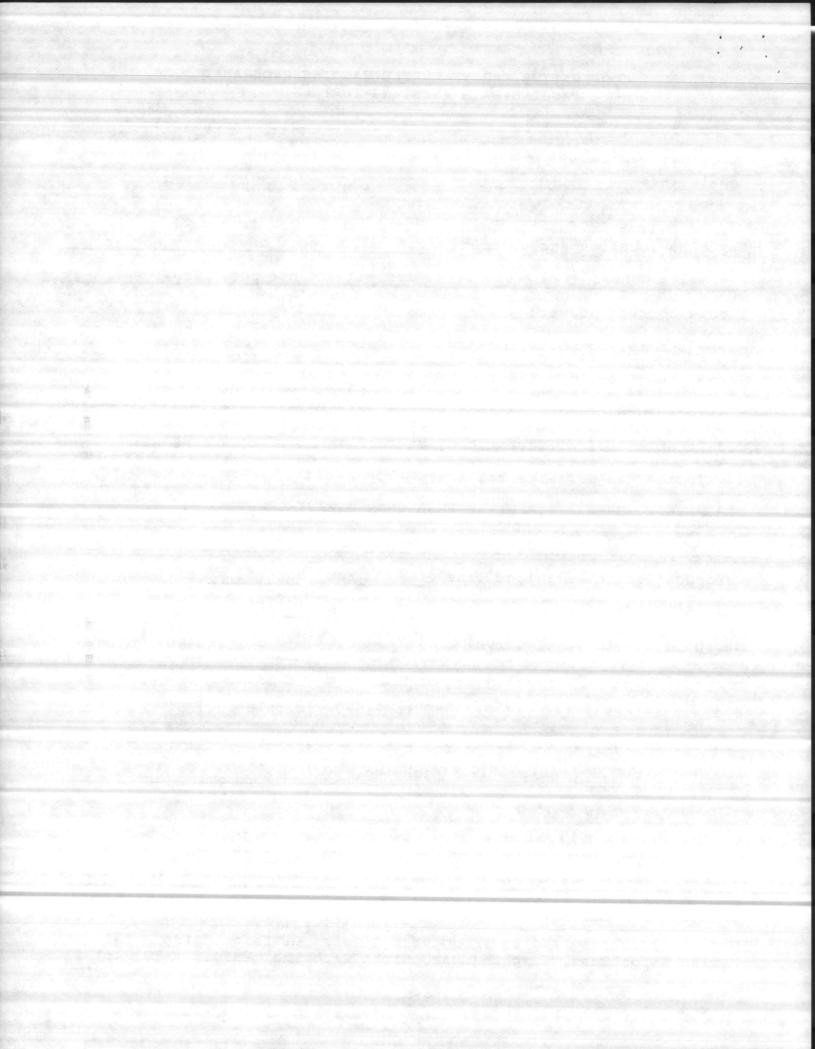
Tag Number(s) 202/203 Species _	CC	Date Enco	untered <u>7/7/87</u>
(list all tag #'s and letters) AAR			
Describe location encountered:35	miles sou	th of Ris	seley's Pier
Crawl #40.			
Circle correct answer:			
"New" turtle (not carrying any tag o	r tag sca	ir)	YES NO
If no, then circle correct category:			
(1) Recapture of same project turtle	(within	season or	multi-annual)
(2) Recapture of different project t			
(3) Turtle has definite tag scars			
	no tab/W	- Va)	
Tag return address (If other than NM	r'S Lab/VI	r key)	
Carapace length (straight line)	cm	36	in.
Carapace width (straight line)	cm	35	_in.
Carapace length (over curve)	cm	39 3/	<u>4</u> in.
Carapace width (over curve)	cm	38 1/	2 in.
Did turtle nest? YES NO UNDETER	The Inc. State A. Casal	circle one	e)
Additional remarks or data (use back			
nest was moved to 2.1 miles south o	rkiserey	s riei -	will be lefocated
to north of Riseley's Pier after 15	days.		

Organization Tagging:



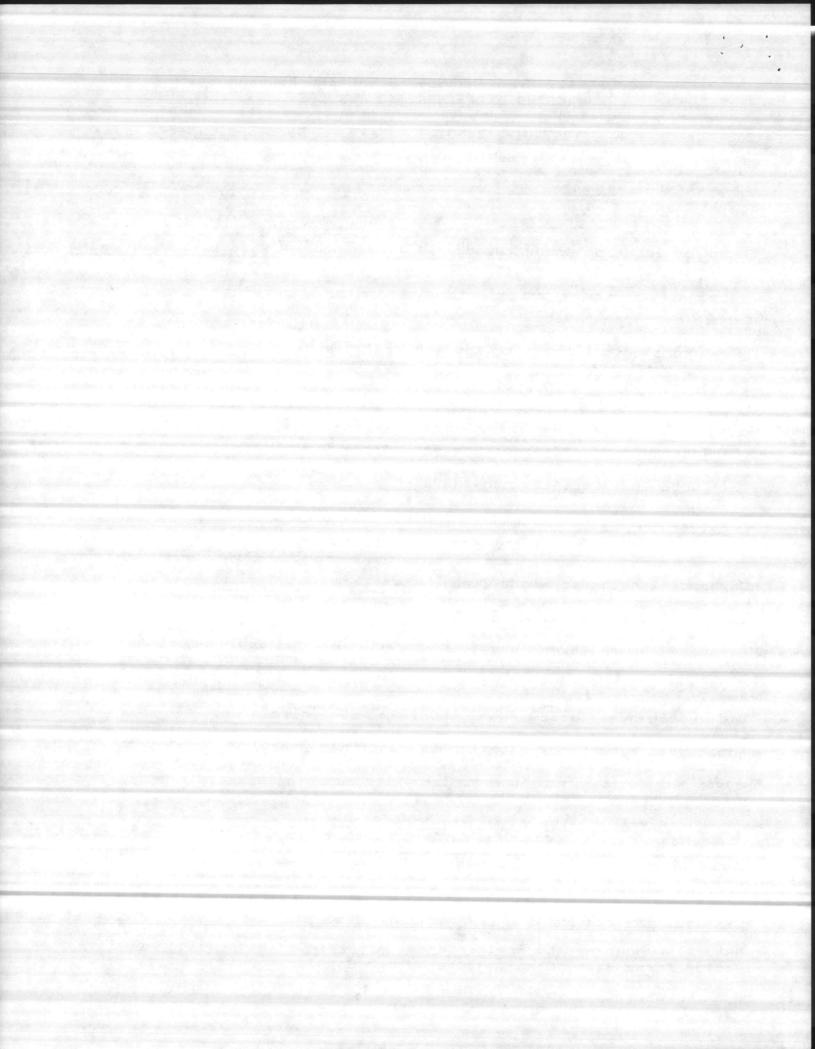
Tag Number(s) 105/201 Species (D D	ate Encou	ntered <u>7/7/87</u>
(list all tag #'s and letters) AAR			
Describe location encountered: 2.6 mm	iles sout	h of Rise	eley's Pier.
Very low dunes. Two areas were "teste	ed" but n	ot dug.	Crawl #41
Circle correct answer:			
"New" turtle (not carrying any tag or	tag scar	•)	YES NO
If no, then circle correct category:			
(1) Recapture of same project turtle	(within s	eason or	multi-annual)
(2) Recapture of different project tur	rtle		
(3) Turtle has definite tag scars			
Tag return address (If other than NMF:	S Lab/Vir	Key)	
Carapace length (straight line)	cm	37	in.
Carapace width (straight line)	cm	31	in.
Carapace length (over curve)	cm	38 1/2	in.
Carapace width (over curve)	cm	37	in.
Did turtle nest? YES NO UNDETERM	INED (c:	ircle one)
Additional remarks or data (use back	if neces	sary) M	easurements
were taken from previous days sightin	g.		

Organization Tagging:



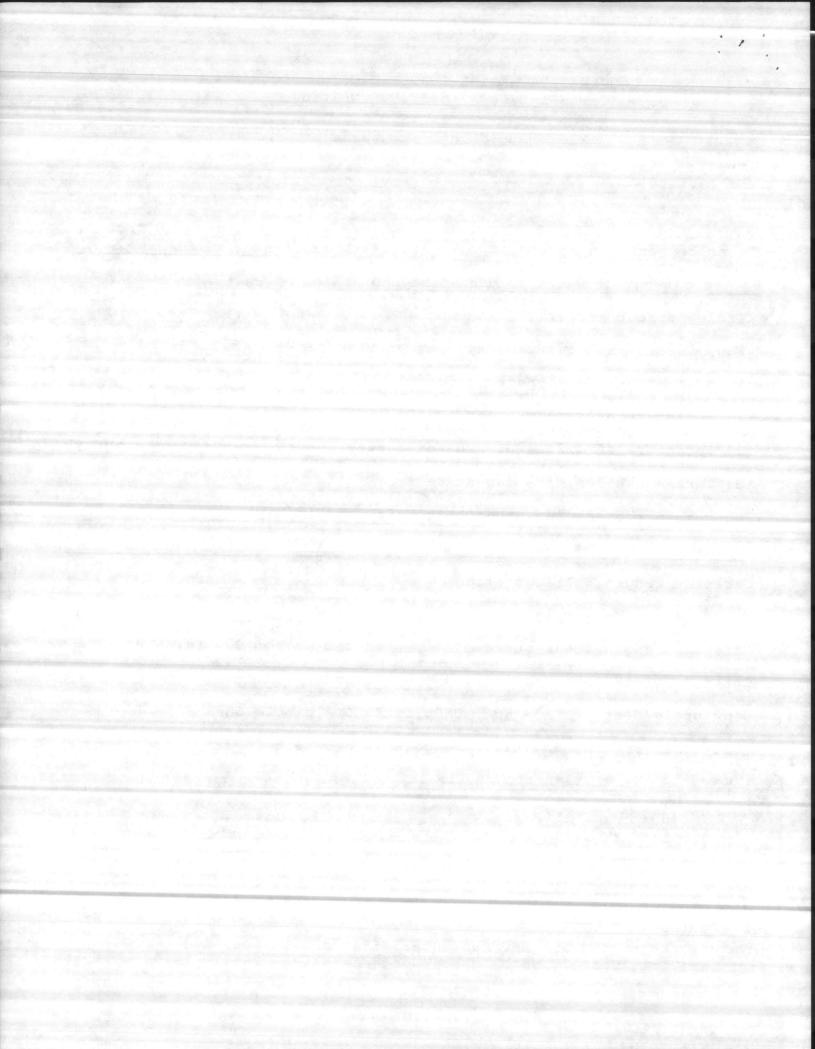
Tag Number(s) 105/201 Species 0	CC Date	Encountered 7/8/87					
(list all tag #'s and letters) AAR							
Describe location encountered: 2.1 miles north of Riseley's Pier Crawl #42							
Circle correct answer:							
"New" turtle (hot carrying any tag or	tag scar)	YES NO					
If no, then circle correct category:							
(1) Recapture of same project turtle (on or multi-annual)					
(2) Recapture of different project tur	tle						
(3) Turtle has definite tag scars							
Tag return address (If other than NMFS	Lab/Vir Ke	(y)					
Carapace length (straight line)	_ cm	37 in.					
Carapace width (straight line)	_ cm	31 in.					
Carapace length (over curve)	_ cm	38 1/2 in.					
Carapace width (over curve)	_ cm	37 in.					
Did turtle nest? YES NO UNDETERMI	NED (circ)	e one)					
Additional remarks or data (use back i	f necessary	Laid 138 eggs and					
nest was moved up on dune at 2.1 miles	s north of	Riseley's Pier.					

Organization Tagging:



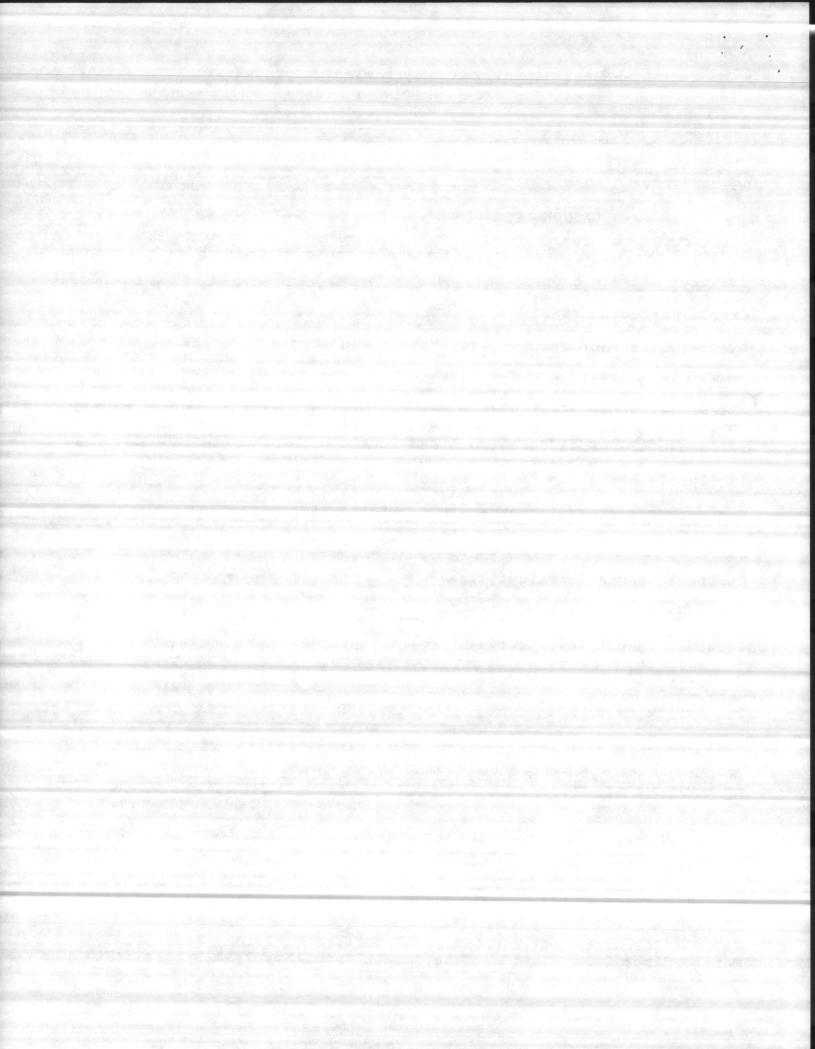
Tag Number(s) 204/205 Species	CM D	ate Encour	ntered <u>7/8/87</u>
(list all tag #'s and letters)AAR			
Describe location encountered: 2.0			
Straight out of water to dune base	and nested	. Crawl #	43
Circle correct answer:			
"New" turtle (not carrying any tag	or tag scar	-)	YES NO
If no, then circle correct category:			
(1) Recapture of same project turtle	e (within s	season or	multi-annual)
(2) Recapture of different project t	urtle		
(3) Turtle has definite tag scars			
Tag return address (If other than N	MFS Lab/Vi	Key)	
Carapace length (straight line)	cm	42	in.
Carapace width (straight line)	cm	40	in.
Carapace length (over curve)	cm	. 45 3/4	in.
Carapace width (over curve)	cm	45 3/4	in
Did turtle nest? YES NO UNDETER	RMINED (c.	ircle one)	
Additional remarks or data (use back	k if neces	sary) <u>188</u>	large eggs.
Moved to 2.1 miles north of Riseley	's Pier.		

Organization Tagging:



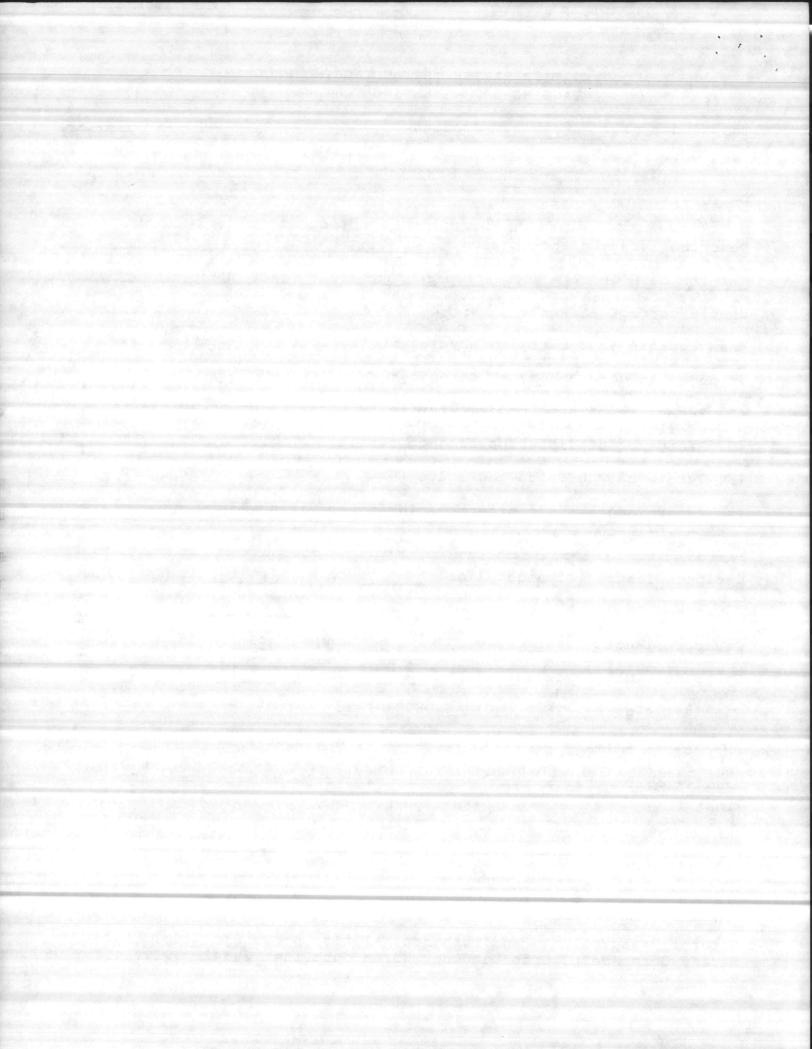
Tag Number(s) 074 Species	CC I	ate Encou	intered 7/15	/87
(list all tag #'s and letters) AAR				
<u>UNKNOWN (in</u> flesh)				
Describe location encountered: 1.45	ıles sou	th of Rise	eley's Pier,	190
35 feet aobve high tide in wash over	area. C	rawl #51		
Circle correct answer:				
"New" turtle (not carrying any tag or	tag sca	r)	YES NO	
If no, then circle correct category:				
(1) Recapture of same project turtle	(within	season or	multi-annua	al)
(2) Recapture of different project tu	rtle			
(3) Turtle has definite tag scars				
Tag return address (If other than NMF	S Lab/Vi	r Key)	•	
			* **	
Carapace length (straight line)	cm	36	in.	
Carapace width (straight line)	cm	30	in.	
Carapace length (over curve)	cm	40 1/4	in.	
Carapace width (over curve)	cm	36	in.	
Did turtle nest? YES NO UNDETERM	IINED (c	ircle one)	
Additional remarks or data (use back	if neces	sary) Ne	est with 139	eggs
Relocated to 2.1 miles north of Risel	ev's Pie	r.		

Organization Tagging:



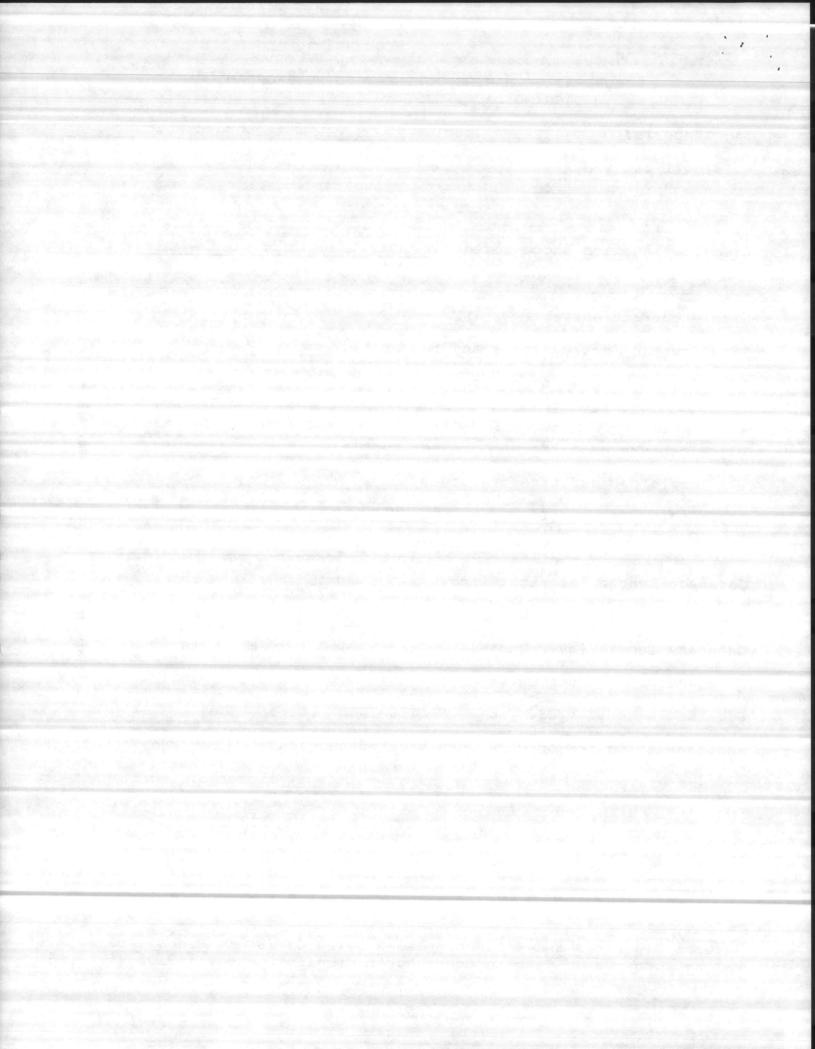
Tag Number(s)	207/208	Species	CM	Date Enc	ountered	7/21/87
(list all tag # and letters)	AAR					
Describe locati	on encounte	ered: 2.0	5 miles s	outh of R	iseley's	Pier
at the base of	12' dune,	set back f	rom front	line. N	ested ne	ar vehicle
path. Crawl # Circle correct	58. answer:					
"New" turtle fr		g any tag	or tag sc	ar)	YES	NO
If no, then cir	cle correct	t category				
(1) Recapture	of same pro	ject turtl	e (within	season c	r multi-	-annual)
(2) Recapture						
(3) Turtle has						
Tag return add	ress (If ot	her than N	MFS Lab/V	ir key) _		
Carapace lengt	h (straight	line)	cm	43 1/	<u>2</u> in.	
Carapace width	(straight	line)	cm	37 1/	<u>2</u> in.	
Carapace lengt	h (over cur	ve)	cm	46 1/	4 in.	
Carapace width	(over curv	e)	cm	44 1/	'2 in.	
Did turtle nes	t? YES N	O UNDETE	RMINED (circle o	ne)	
Additional rem		a (use bac	k if nece	ssary)	Nest - I	L92 eggs.
Relocated to 2	2.1 miles no	orth of Ris	seley's Pi	er. NOTE	: Tag	#207.was
lost later as	observed or	#88 retur	n.			

Organization Tagging:



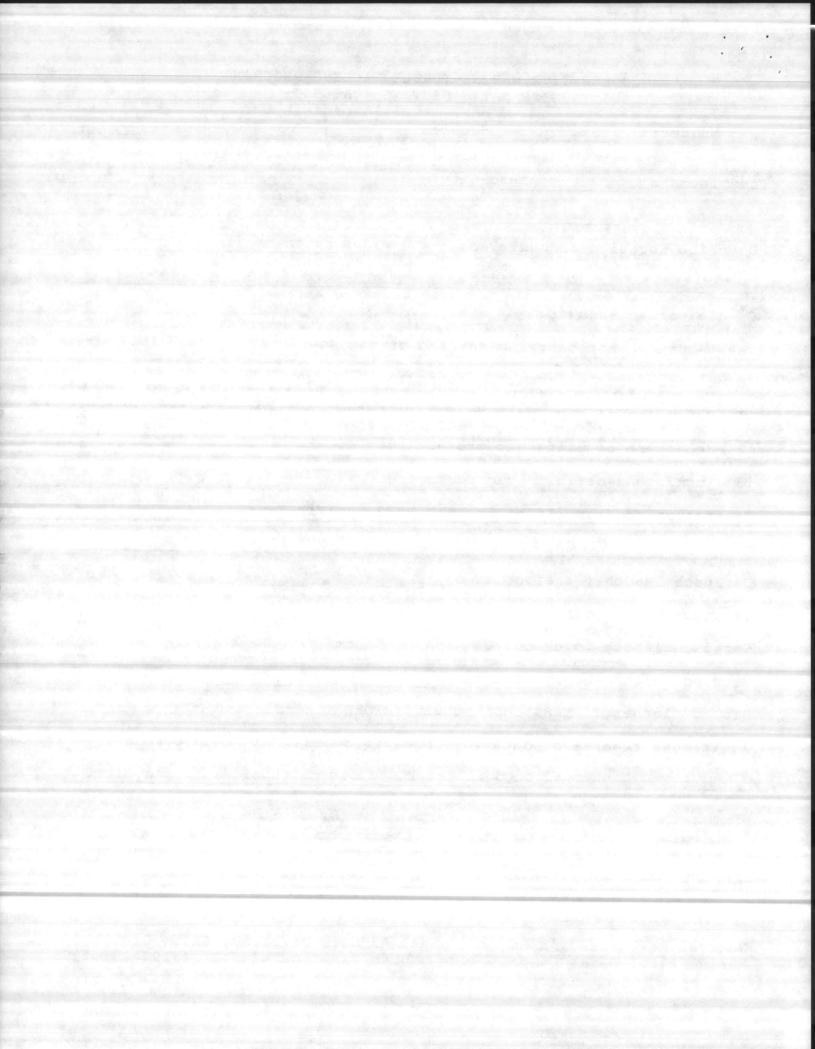
Tag Number(s) 211/212 Species	CC I	Date Enc	ountered 7/	26/87
(list all tag #'s and letters) AAR				
Describe location encountered: 0.6 m.	iles sout	h of Ri	seley's Pier	
Crawl #60				
Circle correct answer:				
"New" turtle (not carrying any tag or	tag sca	r)	YES NO	
If no, then circle correct category:				
(1) Recapture of same project turtle	(within	season o	or multi-anr	nual)
(2) Recapture of different project tu	irtle			
(3) Turtle has definite tag scars				
Tag return address (If other than NME	S Lab/Vi	r Key)		
Carapace length (straight line)	cm	42	_ in.	
Carapace width (straight line)	cm	31	_ in.	
Carapace length (over curve)	cm .	44	in.	
Carapace width (over curve)	cm	41	in.	
Did turtle nest? YES NO UNDETER	MINED (c	ircle o	ne)	
Additional remarks or data (use back	if neces	sary)	146 eggs -	relocated
to 1.8 miles north of Riseley's Pier	. Laid a	t low t	ide. NOTE:	AAR-210
was lost during tagging process.				

Organization Tagging:



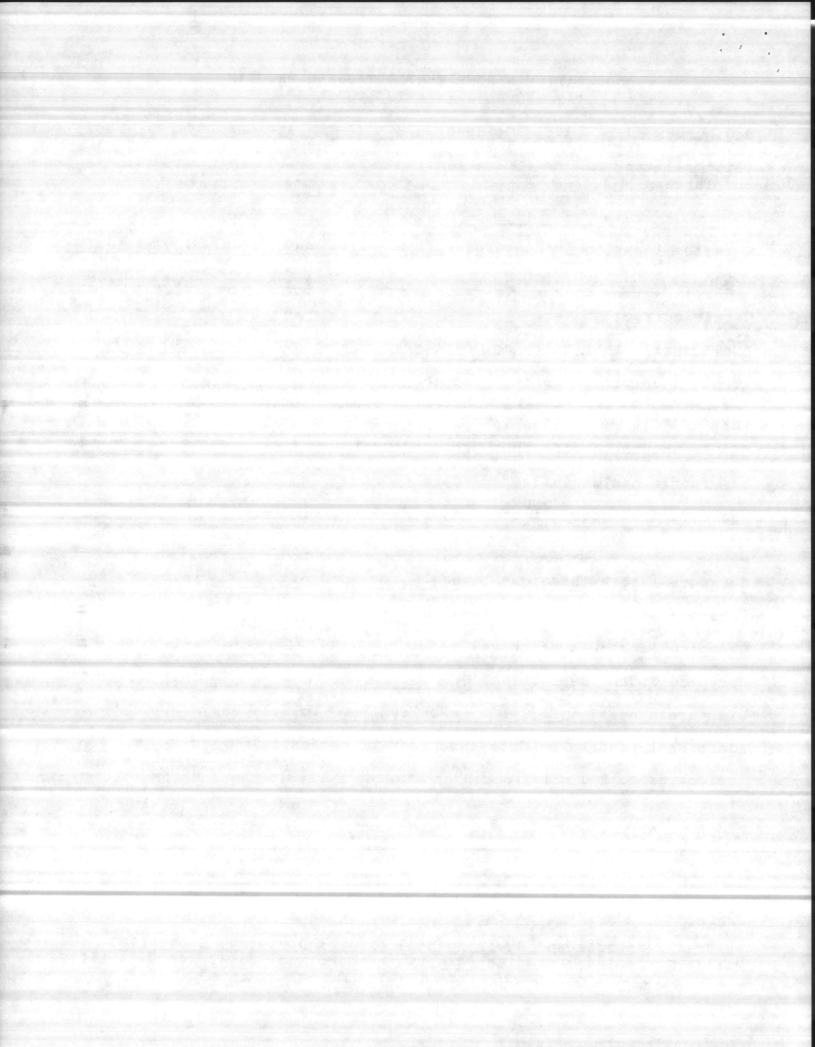
Tag Number(s) 817 Species	CC I	Date Enco	untered <u>7/27/87</u>
(list all tag #'s and letters) IMS Morehead City			
Describe location encountered: 2.0 Crawl #70	miles nor	th of Ris	seley's Pier,
Circle correct answer:			
"New" turtle (not carrying any tag or	tag sca	r)	YES NO
If no, then circle correct category:			
(1) Recapture of same project turtle	(within	season or	multi-annual)
(2) Recapture of different project to	urtle		
(3) Turtle has definite tag scars			
Tag return address (If other than NMI	FS Lab/Vi	r Key) _	
Carapace length (straight line)	cm	35	in.
Carapace width (straight line)	cm	36	in.
Carapace length (over curve)	cm	38 1/	2 in.
Carapace width (over curve)	cm	25	in.
Did turtle nest? (ES) NO UNDETER	MINED (c	ircle one	e)
Additional remarks or data (use back			
Nest moved higher up on dunes at 2.0) miles n	orth of R	iseley's Pier.

Organization Tagging:



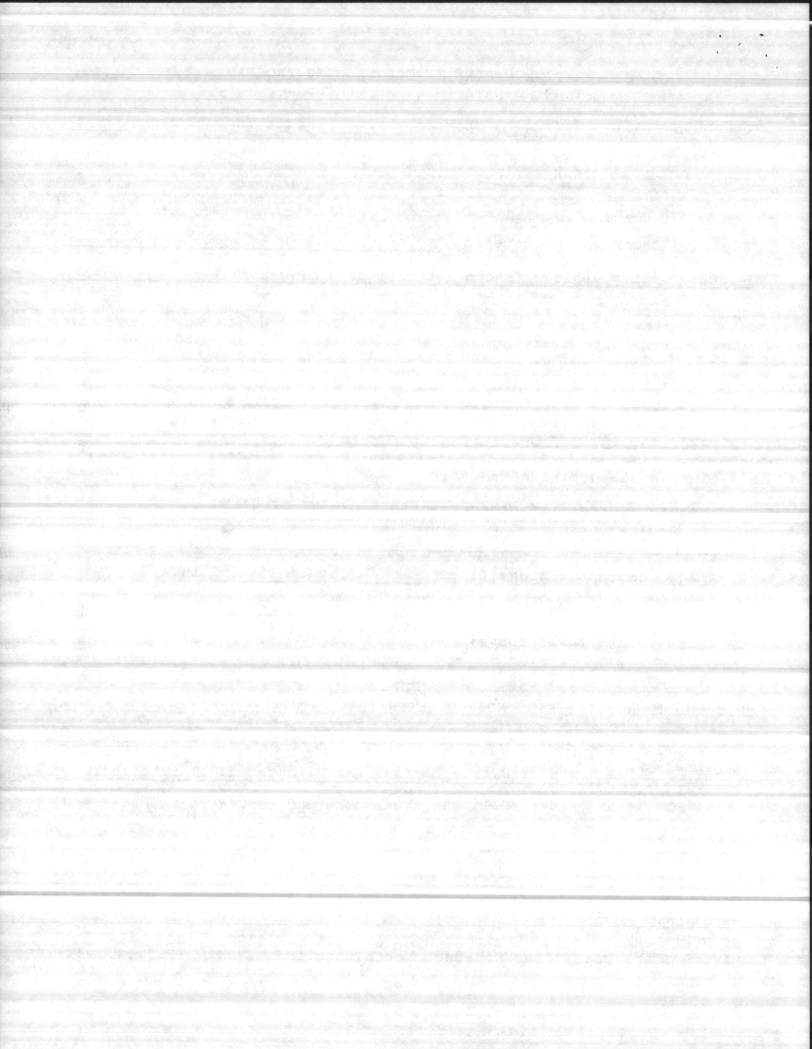
Tag Number(s)	119	Species _	CC	Date Enco	untered	7/28/87
(list all tag # and letters) _	's AAR					
Describe locati Crawl #75	on encount	ered: 1.65	miles s	outh of R	iseley's	Pier,
Circle correct "New" turtle (no in the circle correct) If no, then circle correct (1) Recapture of (2) Recapture of (3) Turtle has Tag return address	ot carryin cle correc f same pro f differen definite t	t category: ject turtle t project t ag scars	(within urtle	season or		annual)
Carapace length	(straight	line)	cm	36	in.	
Carapace width			cm	26	in.	
Carapace length			cm	38 1/	4 in.	
Carapace width			a law as all Silver	37 1/	4 in.	
Did turtle nest	? YES N	O UNDETER	MINED (circle on	e)	
Additional rema	arks or dat	a (use back	if nece	ssary) _	124 eggs	- nest
relocated to 2	.0 miles n	orth of Ris	eley's Pi	er. Tag	scar on	left flipper.

Organization Tagging:



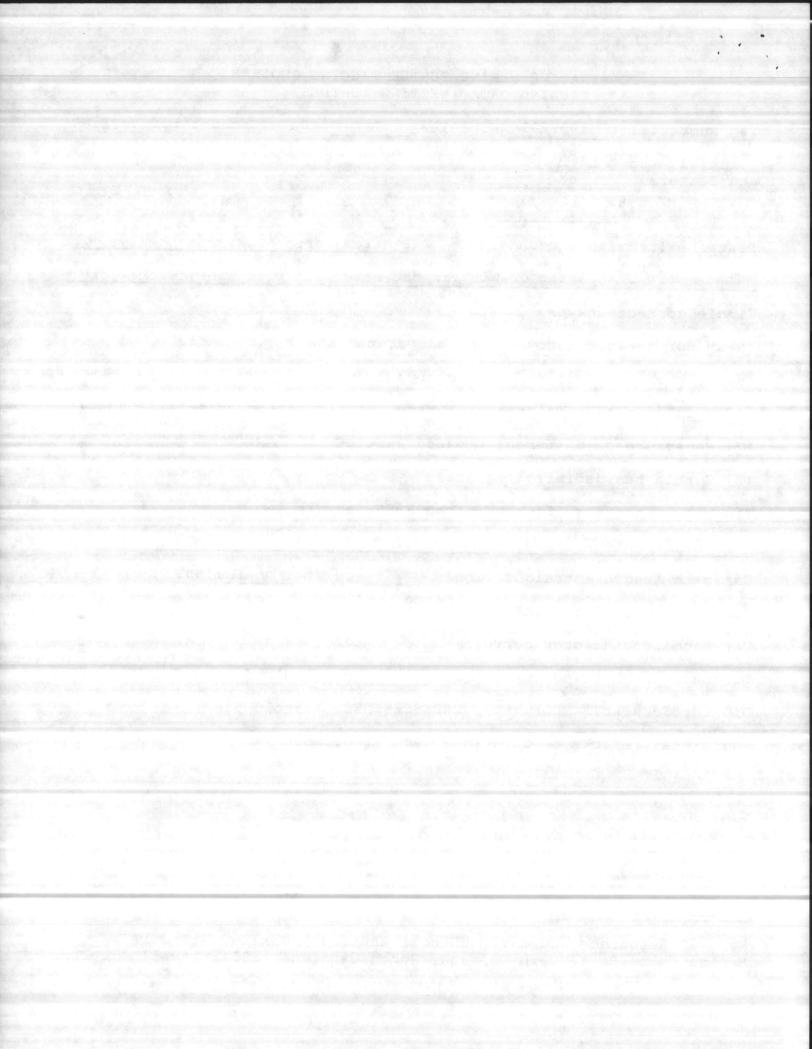
Tag Number(s)	213/214	species _	CC	Date Enco	untered 1/2	.3/07
(list all tag # and letters)	AAR					
<u>.</u>						
Describe locati	on encounter	ed: 0.5	miles sou	th of Ri	seley's Pier	in .
area of heavy	vehicle track	ks, 95 fee	t from hi	gh tide	line, crawl	#77
Circle correct	answer:					
"New" turtle (r	ot carrying	any tag o	r tag sca	r)	YES NO	
If no, then cir	cle correct	category:				
(1) Recapture	of same proje	ct turtle	(within	season or	: multi-annu	ual)
(2) Recapture	of different	project to	urtle			
(3) Turtle has	definite tag	scars				
Tag return add	ess (If othe	r than NM	FS Lab/Vi	r Key) _		
Carapace length	n (straight l	ine)	cm	36 1/	<u>2</u> in.	
Carapace width	(straight li	ne)	cm	26	_ in.	
Carapace length	n (over curve		cm	39	_ in.	
Carapace width	(over curve)		cm	36 1/	2 in.	
Did turtle nes	t? YES NO	UNDETER	MINED (c	ircle on	e)	
Additional rem	arks or data	(use back	if neces	sary) R	elocated 99	eggs
to 2.05 miles	north of Ris	eley's Pie	er and wi	ce caged.	Turtle loc	oked
like FC #76 o	f 7/28/87/031	5 which wa	as observe	ed return	ing to water	r and
had no tags.						

Organization Tagging:



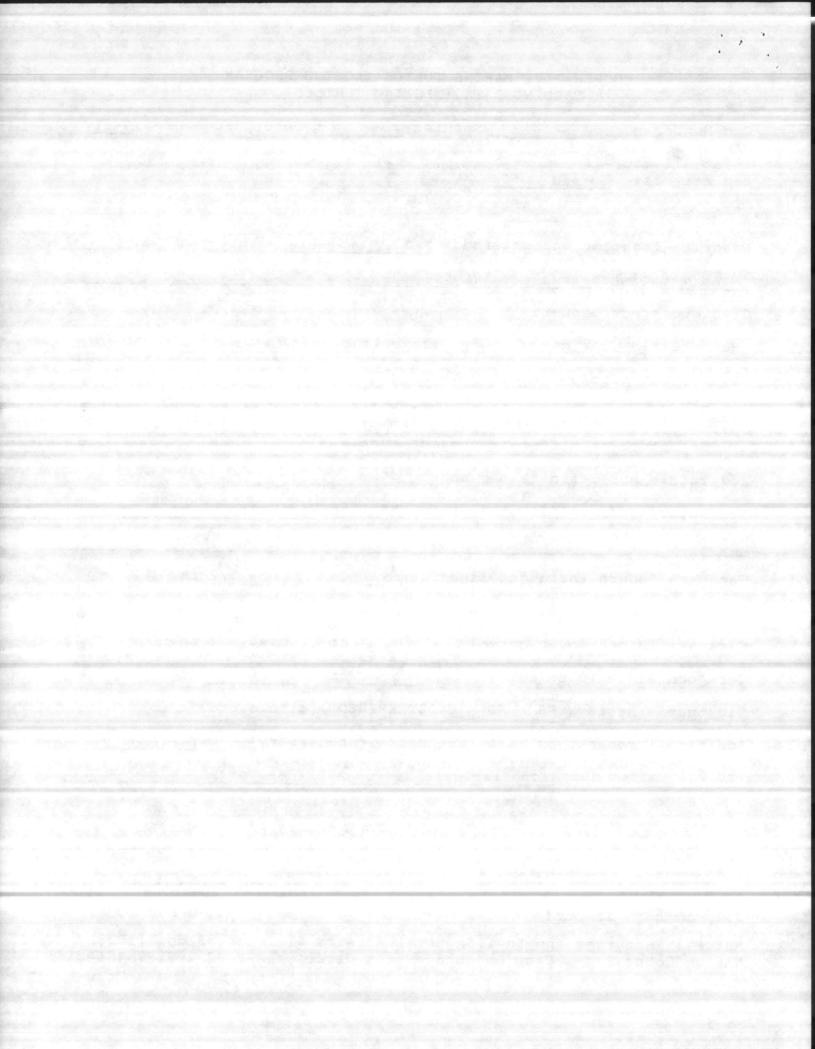
Tag Number(s) 105/201 Species CC Date Encountered 7/31/87
(list all tag #'s and letters) AAR AAR
Describe location encountered: 2.2 miles north of Riseley's Pier.
There were 3 separate crawls (in the same area with same track width)
Crawl #81 Circle correct answer: "New" turtle (not carrying any tag or tag scar) YES NO
If no, then circle correct category:
(1) Recapture of same project turtle (within season or multi-annual)
(2) Recapture of different project turtle
(3) Turtle has definite tag scars
Tag return address (If other than NMFS Lab/Vir Key)
Carapace length (straight line) cm Not availablen.
Carapace width (straight line) cm Not availablen.
Carapace length (over curve) cm 38 1/4 in.
Carapace width (over curve) cm 36 in.
Did turtle nest? YES NO UNDETERMINED (circle one)
Additional remarks or data (use back if necessary) CC was observed
returning.

Organization Tagging:



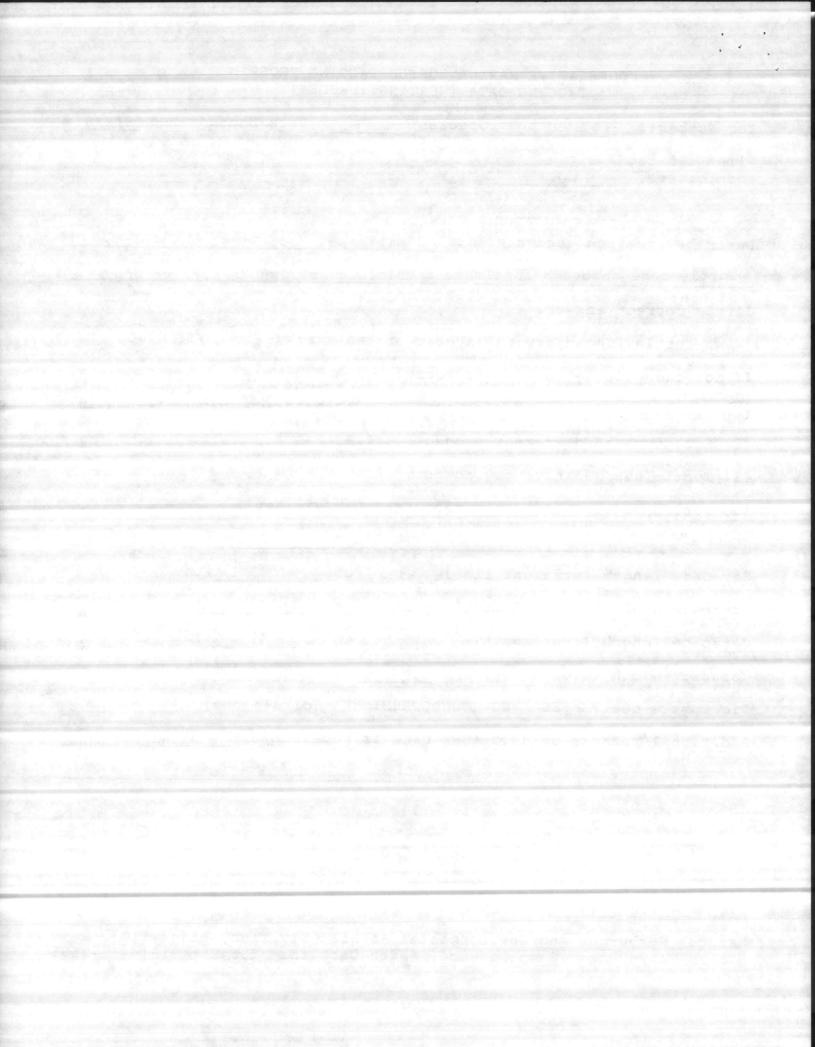
Tag Number(s)	215/216	Species _	CC	Date Enco	untered 7	/31/87
(list all tag # and letters)	's AAR					
Describe locati	on encounte	ered: 2.7	miles sout	h of Rise	eley's Pie	<u>-</u>
in low overwas	sh area. Cr	awl #85				
Circle correct	answer:					
"New" turtle (n	ot carrying	g any tag	or tag sca	r)	YES NO	
If no, then cir	cle correct	category				
(1) Recapture of				season o	multi-an	nual)
(2) Recapture						
(3) Turtle has						
Tag return addr			MES Lab/Vi	r Key)		
Tag return addi	ess (II oti	ier chan N	Mrs Dab/VI	I key, _		
Carapace length	(straight	line)	cm	36 1/	2 in.	
Carapace width				29	in.	
Carapace length			cm	40 1/		
				36 1/		
Carapace width	and the second		cm			
Did turtle nest	e? (YES) NO	O UNDETE	RMINED (c	ircle on	e)	
Additional rema	arks or data	a (use bac	k if neces	sary)	Relocated	121 eggs
to 2.15 miles	north of Ri	seley's Pi	er. Air t	emp 79°	F.	26,73,75

Organization Tagging:



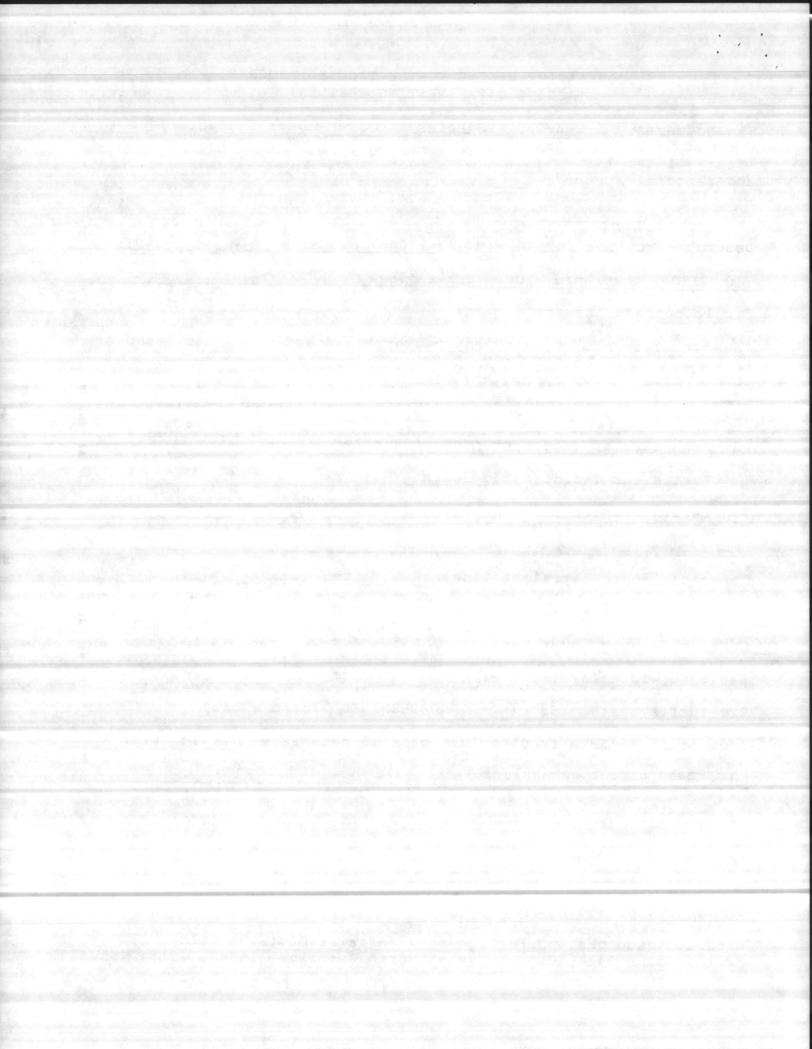
Tag Number(s)	208	Species	CM	Date Enc	ountered	8/2/87
(list all tag # and letters)	's AAR					
Describe locati Turtle came or		the transfer of the second second second				
· within 10 minu Circle correct	ites of sam			* and the same		
"New" turtle (n	ot carryin	g any tag or	tag sc	ar)	YES (40)
If no, then cir	cle correc	t category:				
Recapture o	f same pro	ject turtle	(within	season o	r multi-	annual)
(2) Recapture o	f differen	t project to	irtle			
(3) Turtle has	definite t	ag scars				
Tag return addr	ess (If ot	her than NM	FS Lab/V	ir Key) _		
Carapace length	(straight	line)	cm	45 1,	<u>/2</u> in.	
Carapace width	(straight	line)	cm	36	_ in.	
Carapace length	(over cur	ve)	cm	47	_ in.	
Carapace width	(over curv	re)	cm	41 1,	<u>/2</u> in.	
Did turtle nest	? YES N	O UNDETER	MINED (circle or	ie)	
Additional rema	arks or dat	a (use back	if nece	ssary) _	Missing	tag in
left flipper,	unable to	retag her, s	she also	dug a ho	le that s	he
couldn't get o	out of.					

Organization Tagging:



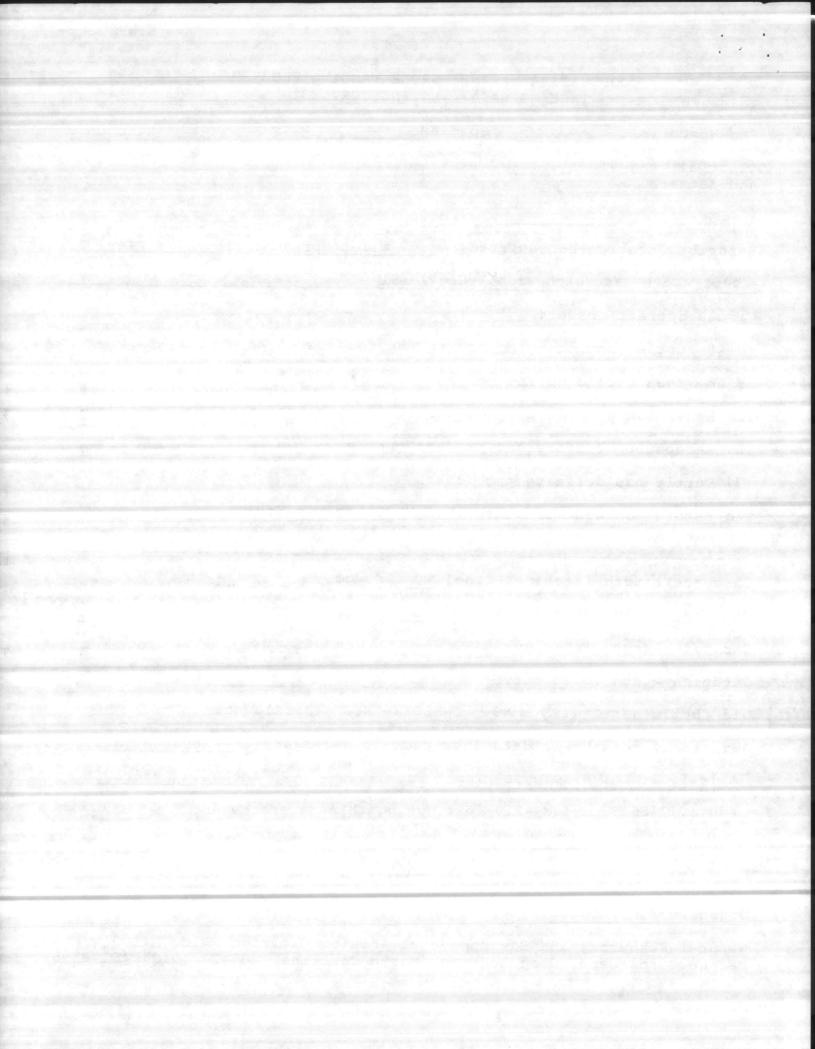
Tag Number(s)	206/209	Species _	CC I	ate Enco	untered 8/	6/87
(list all tag # and letters) _						
Describe locati	on encount	ered: 1.0	miles nor	th of Ris	seley's Pie	<u>r</u>
at 2150 - abou	ut mid tide	. Crawl #9	0	1000		
Circle correct "New" turtle (T	not carryin			r)	YES NO	
(2) Recapture (of same pro	ject turtle	e (within	season or	multi-ann	ual)
(3) Turtle has	definite t	ag scars				
Tag return add	ress (If ot	her than N	MFS Lab/Vi	r Key) _		
Carapace length	n (straight	line)	cm	36	in.	
Carapace width	(straight	line)	cm	25	in.	
Carapace length	h (over cur	ve)	cm	. 38 -3/	4 in.	
Carapace width	(over curv	re)	cm ·	36	in.	
	to VES (O UNDETE	RMINED (c	ircle one	e)	
Did turtle nes	c: ira					

Organization Tagging:



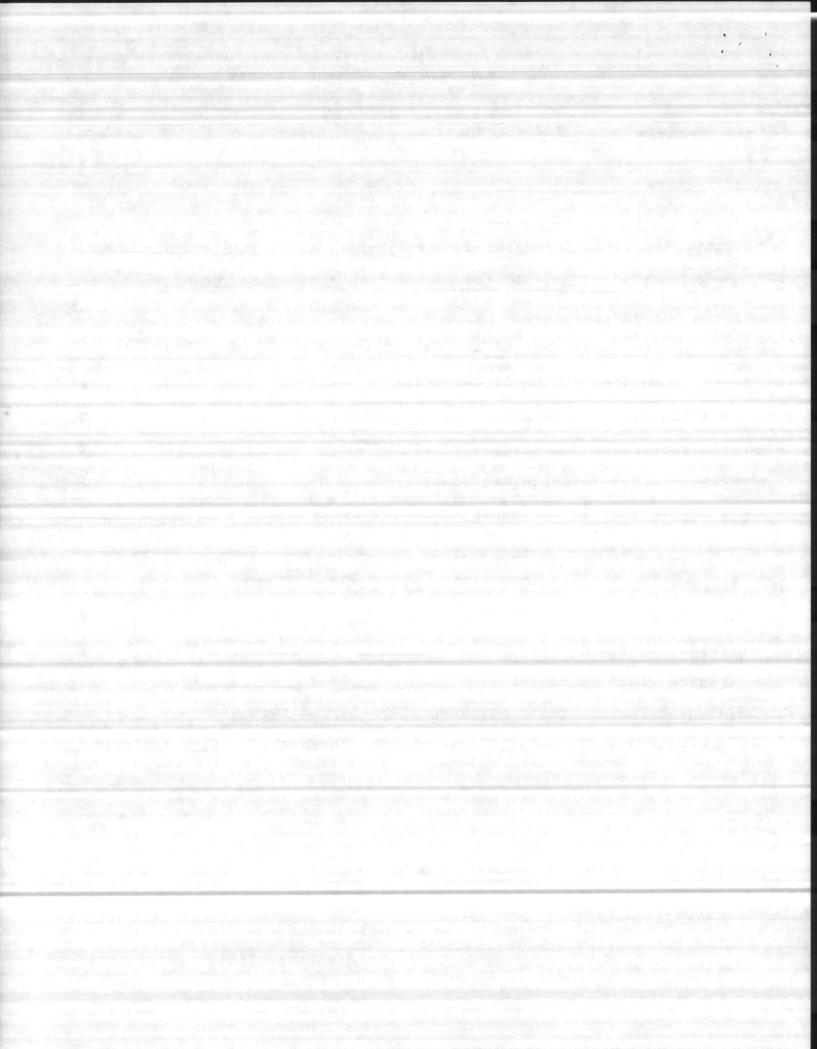
Tag Number(s)	211/212 Specie	s CC	Date Enc	ountered 8	/6/87
(list all tag # and letters)					
	on encountered: 2 t high tide. Craw		north of Ri	seley's Pi	er. 20
	ot carrying any ta		car)	YES NO	
Recapture o	cle correct categor f same project tur f different projec	tle (withi	n season o	r multi-an	nual)
(3) Turtle has	definite tag scars	3			
Tag return addr	ess (If other than	n NMFS Lab/	Vir Key) _		84
Carapace length	(straight line)	cm	42	_ in.	
Carapace width	(straight line)	cm	31	_ in.	
Carapace length	(over curve)	cm	44	_ in.	
Carapace width	(over curve)	· cm	41	_ in.	
	? YES NO UND			ie)	
Additional rema	rks or data (use	back if nec	essary)	Relocated t	0 0.6
miles north of	Riseley's Pier.	Eggs 1.75	- 1.80 incl	nes. Retur	n of
#60 of 7/26/87	. Tag #210 lost o	during this	tagging e	vent.	

Organization Tagging:



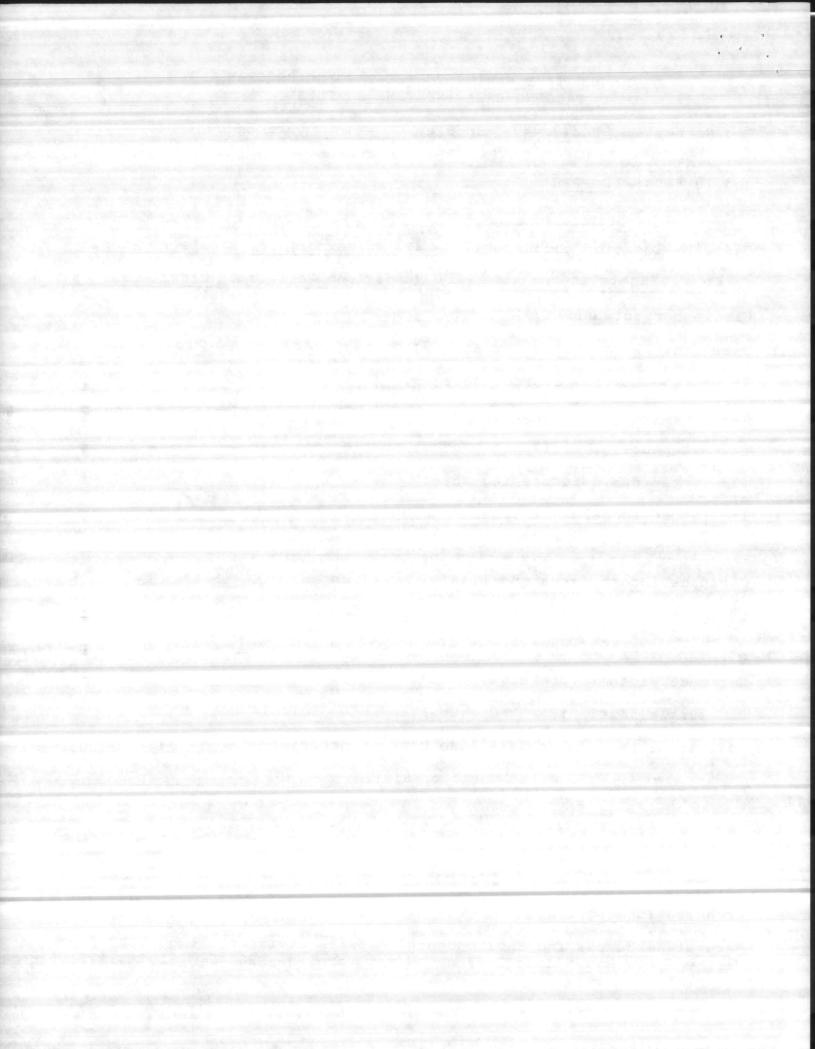
Tag Number(s) 071/217 Species 0	C Date End	countered 8/9/87						
list all tag #'s and letters) AAR								
Describe location encountered: 1.95 m	niles north of	Riseley's Pier						
at base of 10' dune. 90 feet above hi	gh tide line.	Crawl #100						
Circle correct answer: "New" turtle (not carrying any tag or If no, then circle correct category:	tag scar)	YES NO						
(1) Recapture of same project turtle ((2) Recapture of different project tur (3) Turtle has definite tag scars Tag return address (If other than NMFS	tle							
Carapace length (straight line)	cm ·	in.						
Carapace width (straight line)	_ cm	in.						
Carapace length (over curve)	_ cm	in.						
Carapace width (over curve)	_ cm	in.						
Did turtle nest? YES NO UNDETERMI	NED (circle o	ne)						
Additional remarks or data (use back i	f necessary)	Loss tag #218						
while working on this turtle. Laid la	17 eggs							

Organization Tagging:



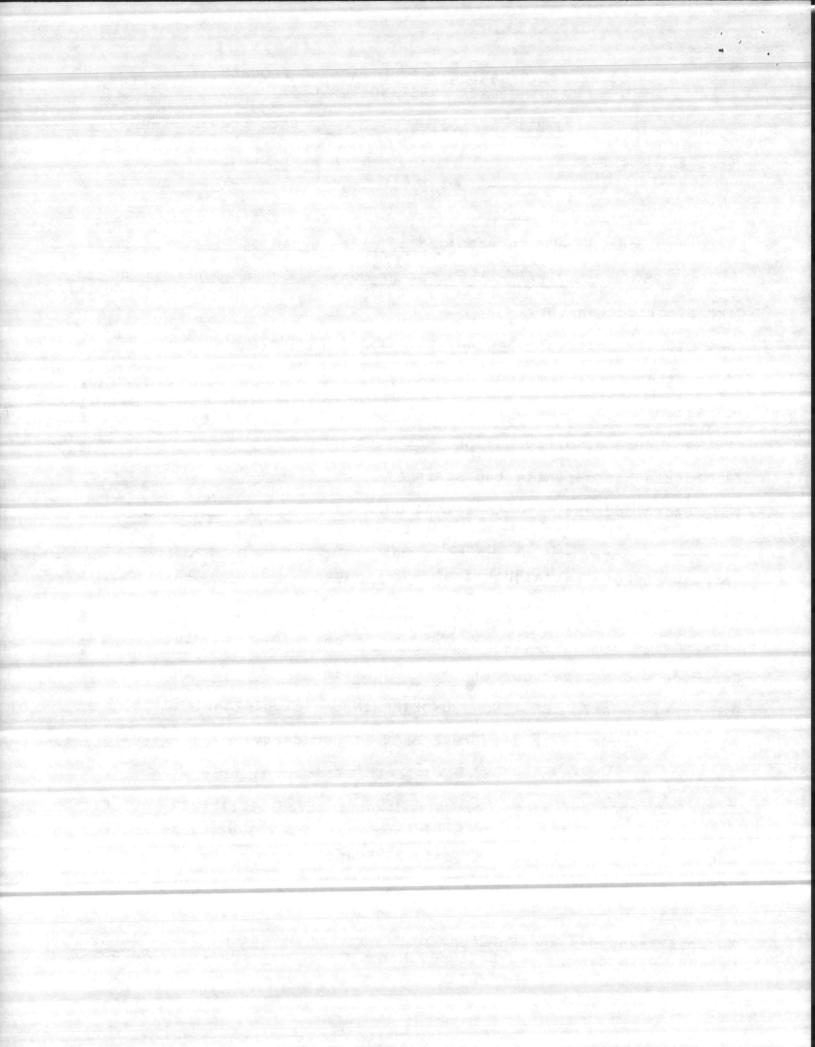
Tag Number(s) 219/220 Species	CC I	ate Encounte	red <u>8/9/87</u>						
(list all tag #'s and letters) AAR AAR									
Describe location encountered: 1.3 Alot of lights in the area, 100 yard									
Circle correct answer:									
"New" turtle (not carrying any tag or	tag scar	r) YES) NO						
If no, then circle correct category:									
(1) Recapture of same project turtle	(within	season or mul	ti-annual)						
(2) Recapture of different project to									
(3) Turtle has definite tag scars									
Tag return address (If other than NMI	FS Lab/Vi	r Key)							
Carapace length (straight line)	cm	32 in.							
Carapace width (straight line)	cm	23 1/2 in							
Carapace length (over curve)	cm	. 36 in							
Carapace width (over curve)	cm	33 in							
Did turtle nest? YES NO UNDETER		ircle one)							
Additional remarks or data (use back	if neces	sary) 94	eggs						
Relocated to 0.25 miles north of Ris	seley's P	Ler.							

Organization Tagging:



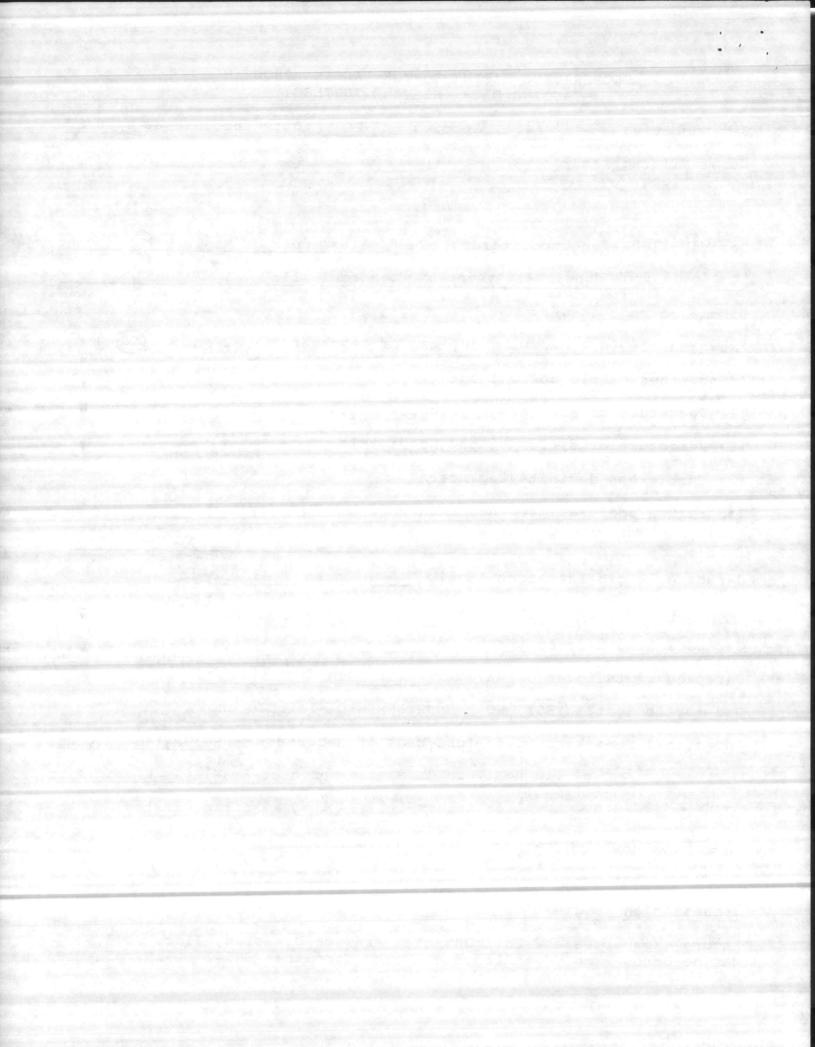
Tag Number(s)	222/224	Species _	СС	Date Enc	ountered 8/1	1/87
(list all tag and letters)	#'s AAR					
Describe locat: a long (250') Crawl #104	crawl but no					
Circle correct "New" turtle (gany tag (or tag so	ar)	YES NO	
If no, then ci				s concor	or multi-annu	al)
(1) Recapture				i season (or marcrama	
(2) Recapture	of different	: project	turtle			
(3) Turtle has	definite ta	g scars				
Tag return add	ress (If oth	ner than NI	MFS Lab/	Vir Key)		
Carapace lengt	h (straight	line)	cm	37	in.	
Carapace width	(straight	line)	cm	27	_ in.	
Carapace lengt	h (over cur	ve)	cm	40	_ in.	
Carapace width	(over curve	e)	cm	37 1/	2 in.	
Did turtle nes	t? YES NO	O UNDETE	RMINED	(circle o	ne)	
Additional rem	arks or data	a (use bac	k if nec	essary)	Relocated 102	eggs
to 0.5 miles r	orth of Rise	eley's Pier	r. Had m	uch troub	le with tags.	<u>Th</u> e
first try bent flipper bent h right flipper loose skin due Organization	but didn't co but loose and to nest man	lasp but wind lost, #	wouldn't	come out.	#223 applie	ed to
Natural Resour	cas and Env	ironmental ejeune, No	Affairs	Division lina 285	, Bldg. 1103 42 (919) 45	1-2195

13z



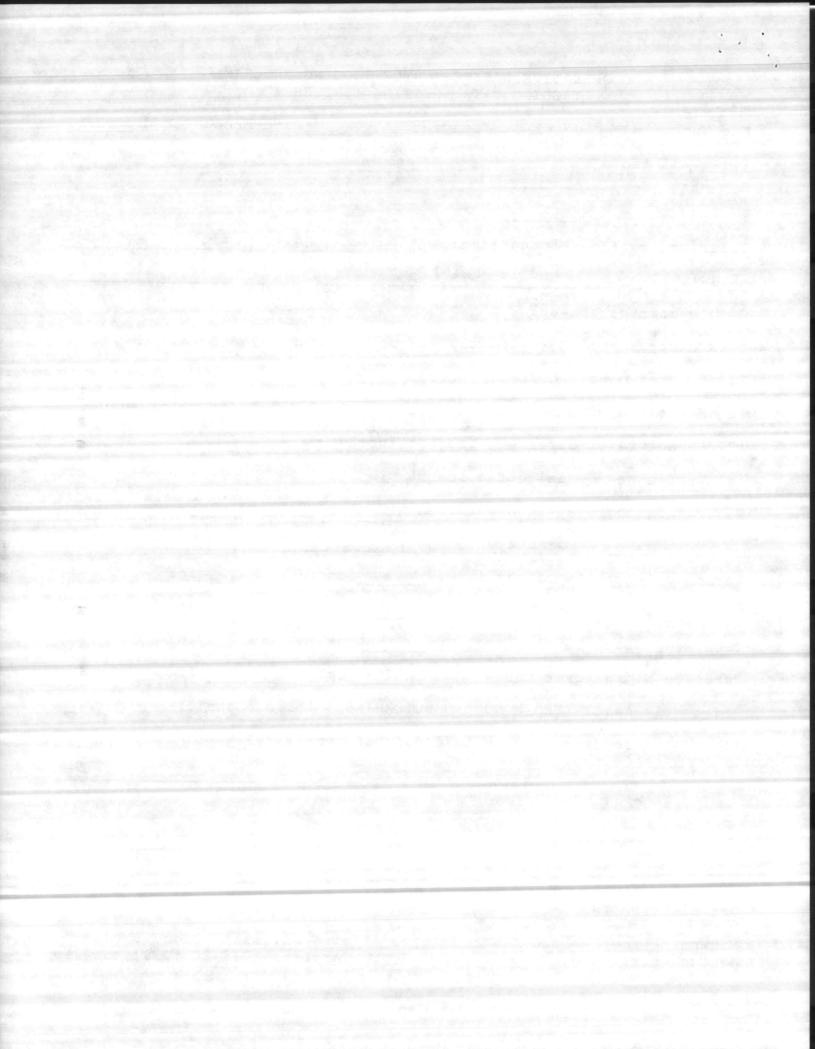
Tag Number(s)	208/225	Species _	CM	Date Encour	ntered 8/13/8/
(list all tag and letters)	#'s AAR				
	_	-			
Describe locat	tion encounte	ered: 2.38	B miles s	outh of Ris	lely's Pier on
top of 7 foot	dune. Ait	temp 75° F.	. Crawl	#113	
Circle correct	t answer:				
"New" turtle	(not carrying	g any tag o	or tag sc	ar)	YES NO
If no, then c	ircle correct	t category:			
(1) Recapture	of same pro	ject turtle	(within	season or	multi-annual)
(2) Recapture	of different	t project t	urtle		
(3) Turtle has	s definite t	ag scars			
Tag return add	dress (If oth	her th an NN	MFS Lab/V	ir Key)	
Carapace leng	th (straight	line)	_ cm	43 1/2	in.
Carapace widt	h (straight	line)	cm	37 1/2	in.
Carapace leng	th (over cur	ve)	cm	46 1/4	in.
Carapace widt	h (over curv	e)	cm	44 1/2	in.
Did turtle ne	st? YES N	O UNDETE	RMINED (circle one)	
Additional re	marks or dat	a (use bac	k if nece	ssary) Re	located 163 eqqs
includes 1 br	oken (in nes	t) to 0.45	mile nor	th of Risel	ey's Pier. Air
temp 75° F.	Egg size 1.8	5 inches (1	1.75 - 1.	90) 3rd time	e nested
N58 = 192 egg N88 = unknow					

Organization Tagging:



Tag Number(s) 071/217 Species CC Date	Encountered 8/22/87
(list all tag #'s and letters) AAR	
Describe location encountered:15 miles north or	f Riseley's Pier.
Crawl #119	
Circle correct answer:	
"New" turtle (not carrying any tag or tag scar)	YES NO
If no, then circle correct category:	
Recapture of same project turtle (within seas	on or multi-annual)
(2) Recapture of different project turtle	
(3) Turtle has definite tag scars	
Tag return address (If other than NMFS Lab/Vir Ke	у)
Carapace length (straight line) cm	in.
Carapace width (straight line)cm	in.
Carapace length (over curve) cm	in.
Carapace width (over curve) cm	in.
Did turtle nest? YES NO UNDETERMINED (circl	e one)
Additional remarks or data (use back if necessary	Only observed
turtle returning to water.	

Organization Tagging:



AERIAL SURVEY

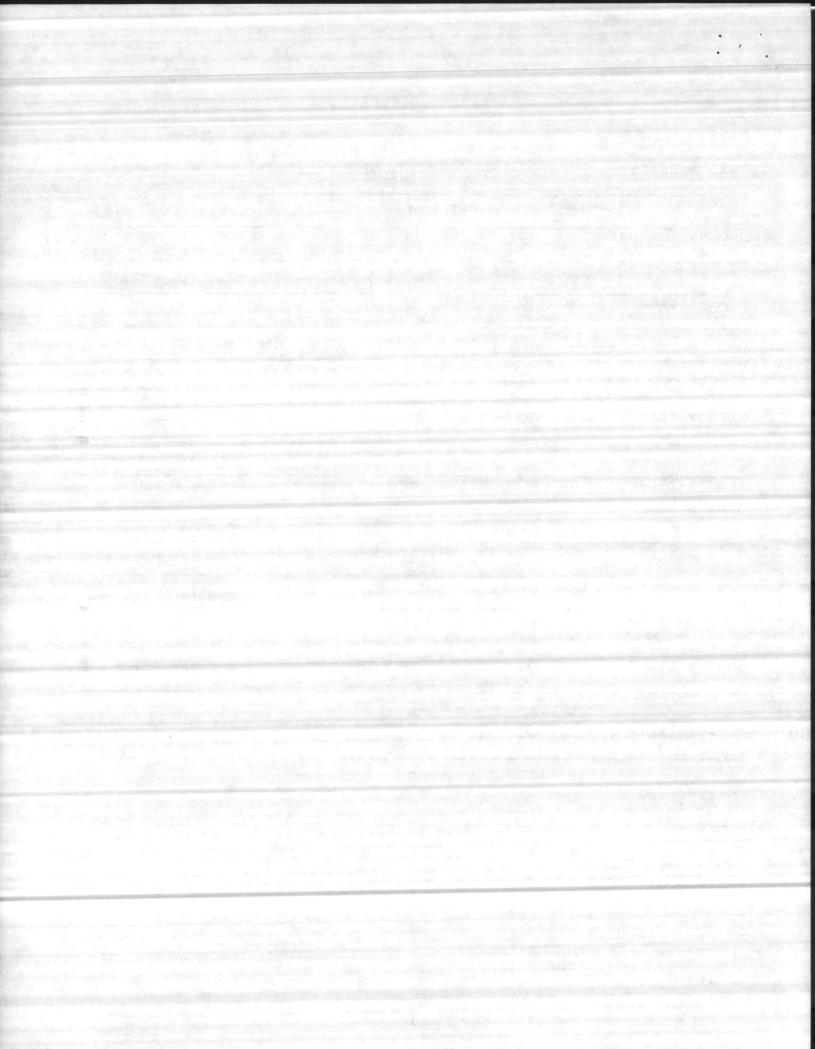
DATE	:	6./	2/87	
			A STATE OF THE STA	

ONSLOW BEACH:	NC	oc	NN	ON	NP	OP	WEATHER		
	6	0	6	0	0	0	THIN FOG / CLE	AR	
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP			
	1	0	1	0	0	0	THIN FOG / CLE	AF	
BEAR ISLAND:	NC	oc	NN	ON	NP	OP			
	1	0	1	0	0	0	THIN FOG / CLE	AF	
DATE: 6/5/87									
ONSLOW BEACH:	NC	oc	NN	ON	NP	OP	WEATHER		
	2	1	2	1	0	0	CLOUDY / FOG		
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP			
	2	0	2	0	. 0	0	CLOUDY / FOG		
BEAR ISLAND:	NC	oc	NN	ON	NP	OP			
	0	1	0	0	0	0	CLOUDY / FOG		
DATE: 6/9/87									
ONSLOW BEACH:	NC	oc	NN	ON.	NP	OP	WEATHER	WEATHER	
	0	0	0	0	0	0	CLEAR		
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP			
	0	0	0	0	0	0	CLEAR		
BEAR ISLAND:	NC	oc	NN	ON	NP	OP			
	1	0	1	0	0	0	CLEAR		

--SYMBOLS: NC = NEW CRAWL

OC = OLD CRAWL NN = NEW NEST ON = OLD NEST

NP = NEW PREDATION OP = OLD PREDATION



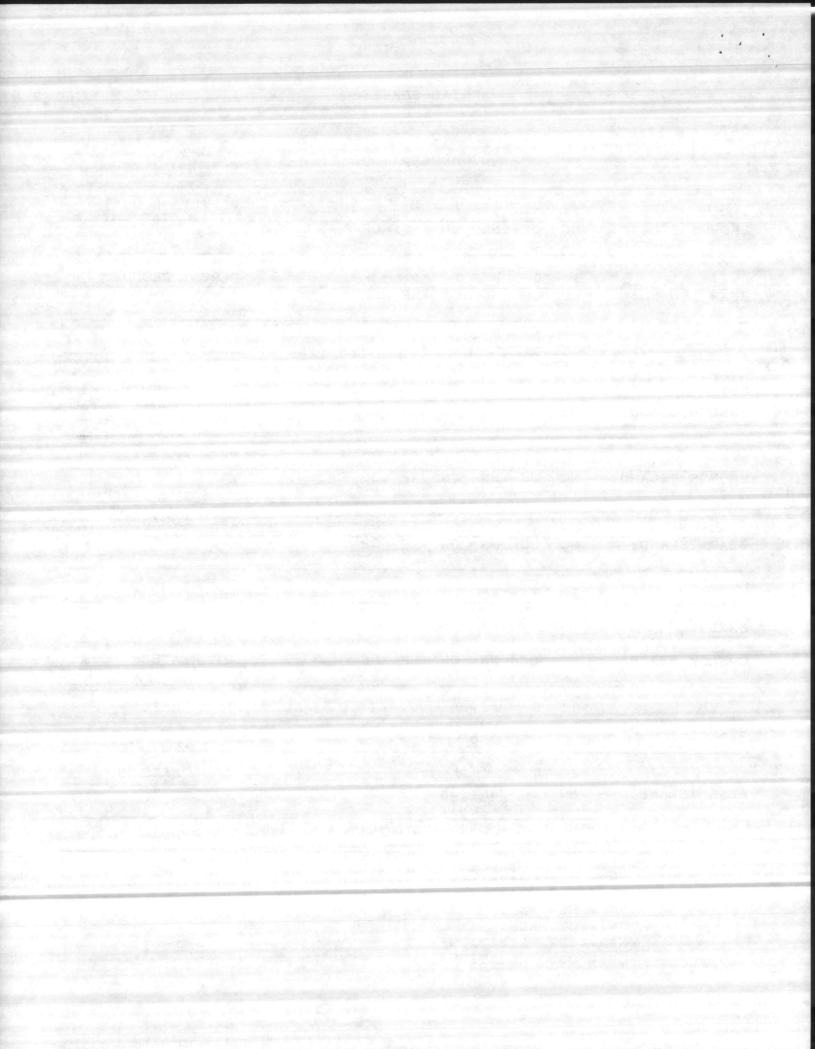
DATE: 6/12/87

ONSLOW BEACH:	NC	oc	NN	ON	NP	OP	WEATHER
	2	0	2	0	0	0	PARTLY CLOUDY
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP	
	1	0	1	0	0	0	PARTLY CLOUDY
BEAR ISLAND:	NC	oc	NN	ON	NP	OP	
	0	0	0	0	0	0	PARTLY CLOUDY
DATE: 6/16/87							
ONSLOW BEACH:	NC	. oc	NN	ON	NP	OP	WEATHER
	0	1	0	0	0	0	THIN FOG/HAZE
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP	
	0	.0	0	0 .	. 0	0	THIN FOG/HAZE
BEAR ISLAND:	NC	oc	NN	ON	NP	OP	
	3 ·	0	3	0	0	0	THIN FOG/HAZE
DATE: 6/19/87							
ONSLOW BEACH:	NC	oc	NN	ON	NP	OP	WEATHER .
	0	0	0	0	0	0	HAZE
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP	
	2	0	2	0	0	0	HAZE
BEAR ISLAND:	NC	oc	NN	ON	NP	OP	
	0	0	0	0	0	0	HAZE

-- SYMBOLS: NC = NEW CRAWL

OC = OLD CRAWL NN = NEW NEST

ON = OLD NEST

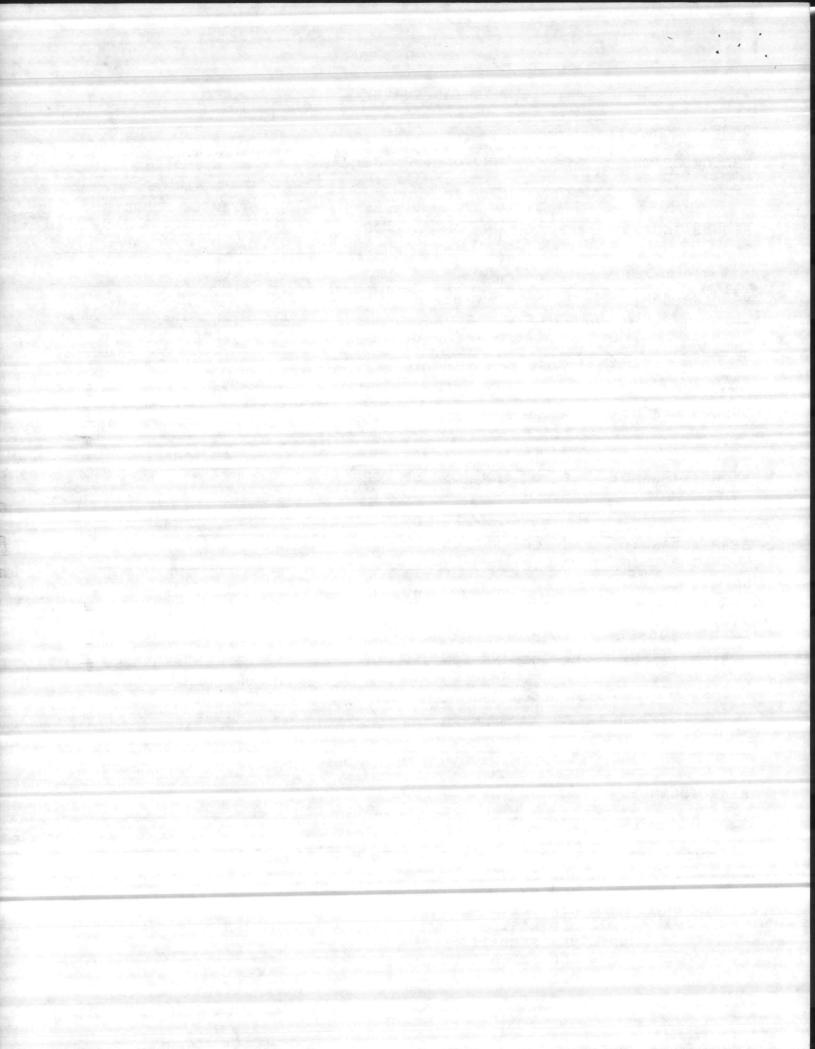


DATE	:	6/23	/87
-			

ONSLOW BEACH:	NC	ос	NN	ON	NP	OP	WEATHER
	2	0	0	0	0	0	PARTLY CLOUDY
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP.	
327	1	0	0	0	0	0	PARTLY CLOUDY
BEAR ISLAND:	NC	oc	NN	ON	NP	OP	
	0	0	0	0	0	0	PARTLY CLOUDY
DATE: 6/26/87							
ONSLOW BEACH:	NC	oc	NN	ON	NP	OP	WEATHER
	1	0	0	0	0	0	HAZE
BROWNS ISLAND:	NC	oc	NN	ON	NP	OP	
	. 2	0	2	0	0	0	HAZE
BEAR ISLAND:	NC	oc	NN	ON	NP	OP	
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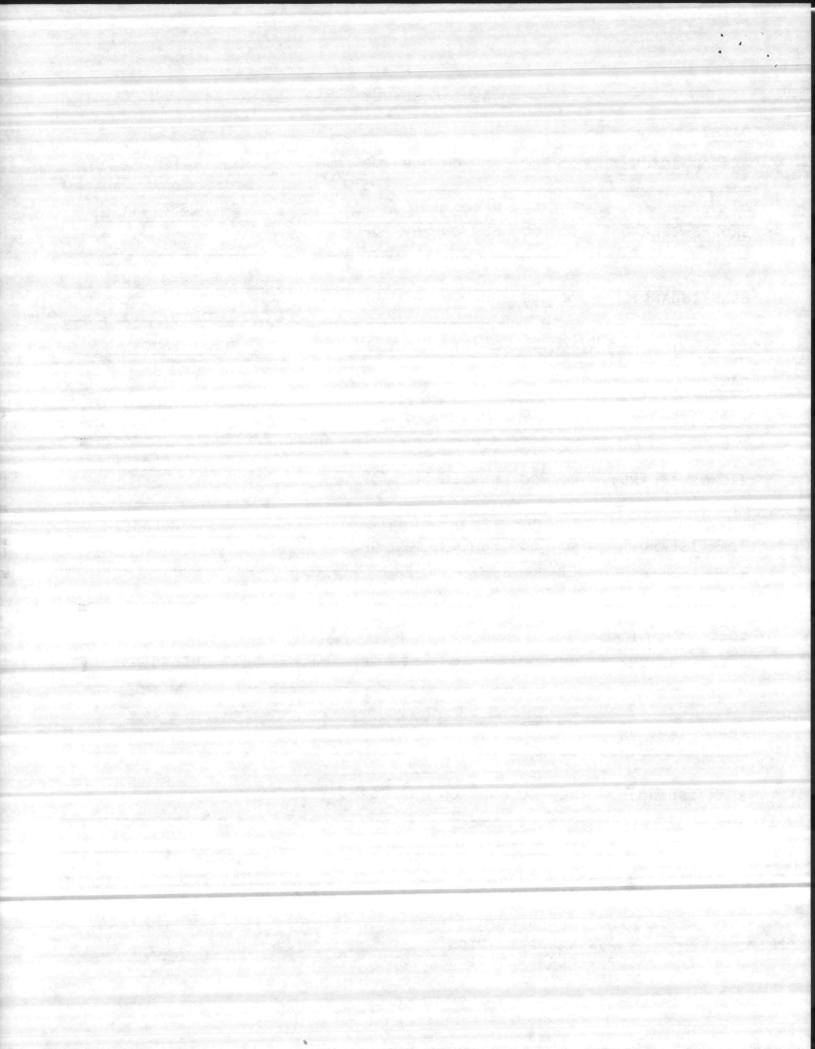
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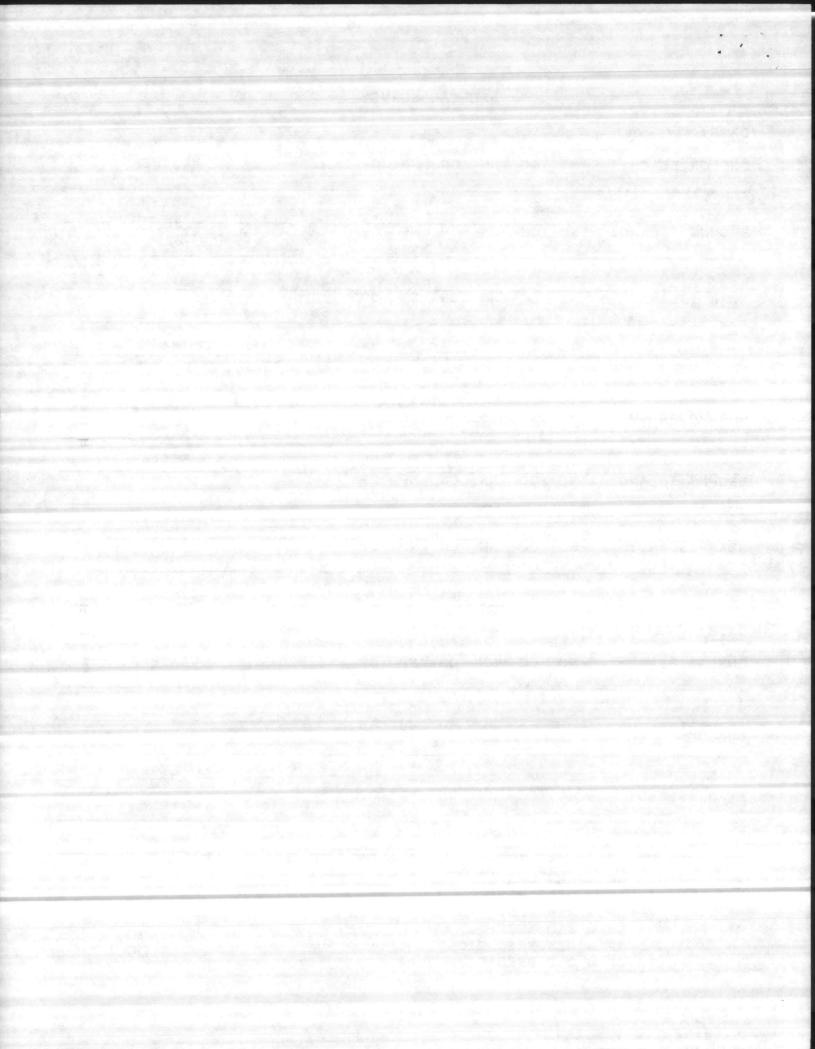
DATE:	7/14/87	

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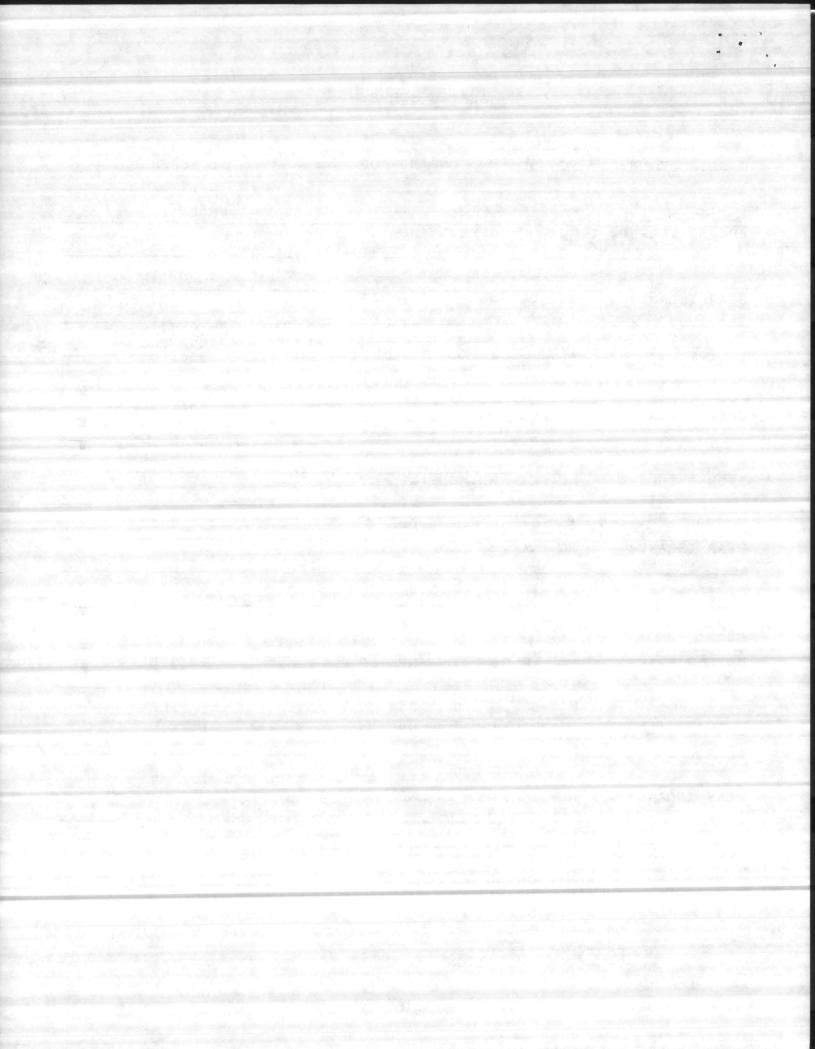


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DATE: 1/24/81							
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BROWNS ISLAND:	NC	oc	NN	ON	NP	OP	
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DATE: 7/28/87							
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--SYMBOLS: NC = NEW CRAWL

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DATE: 8/4/87

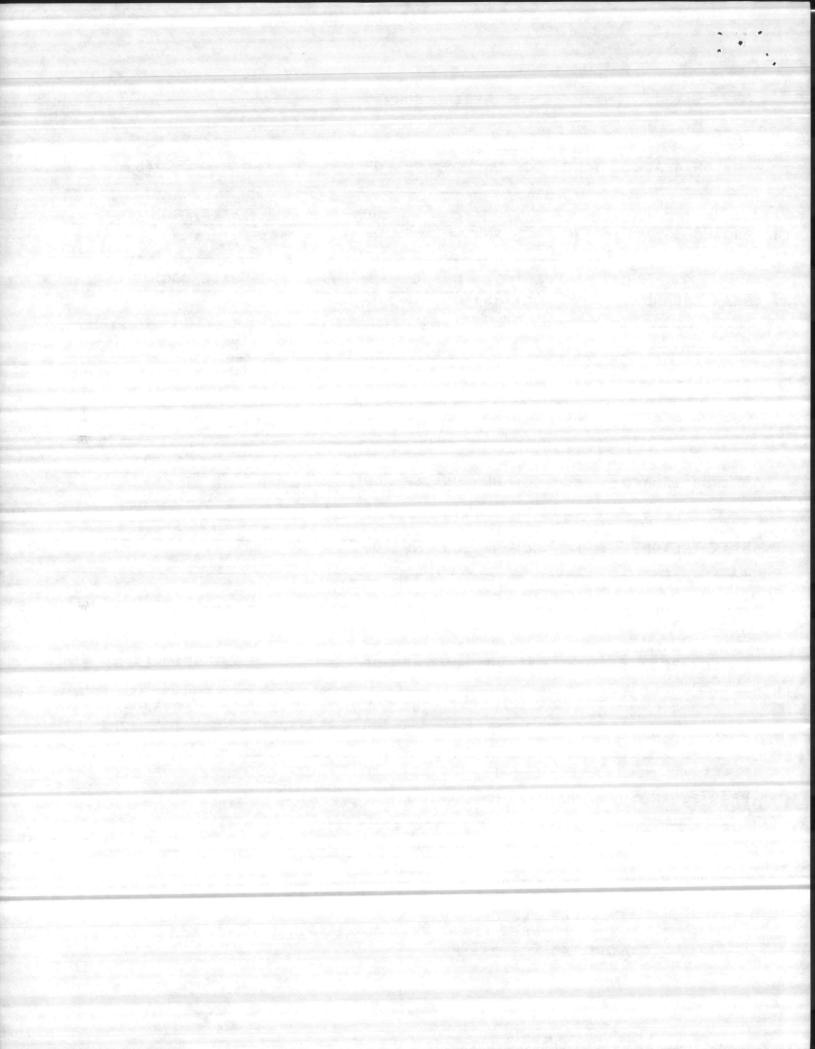
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DATE: 8/8/87							
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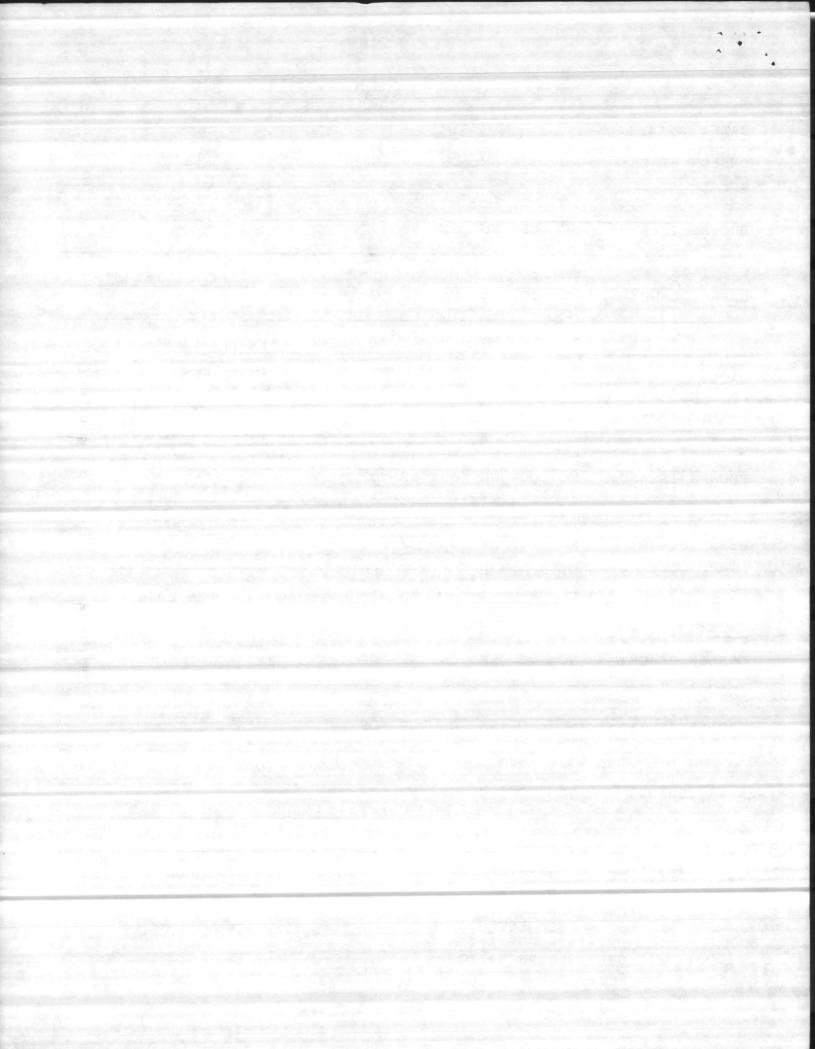
DATE: 8/14/87							
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DATE: 8/18/87							
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BROWNS ISLAND:	NC	oc	NN	ON	NP	OP	
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DATE: 8/21/87							
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--SYMBOLS: NC = NEW CRAWL

OC = OLD CRAWL

NN = NEW NEST

ON = OLD NEST



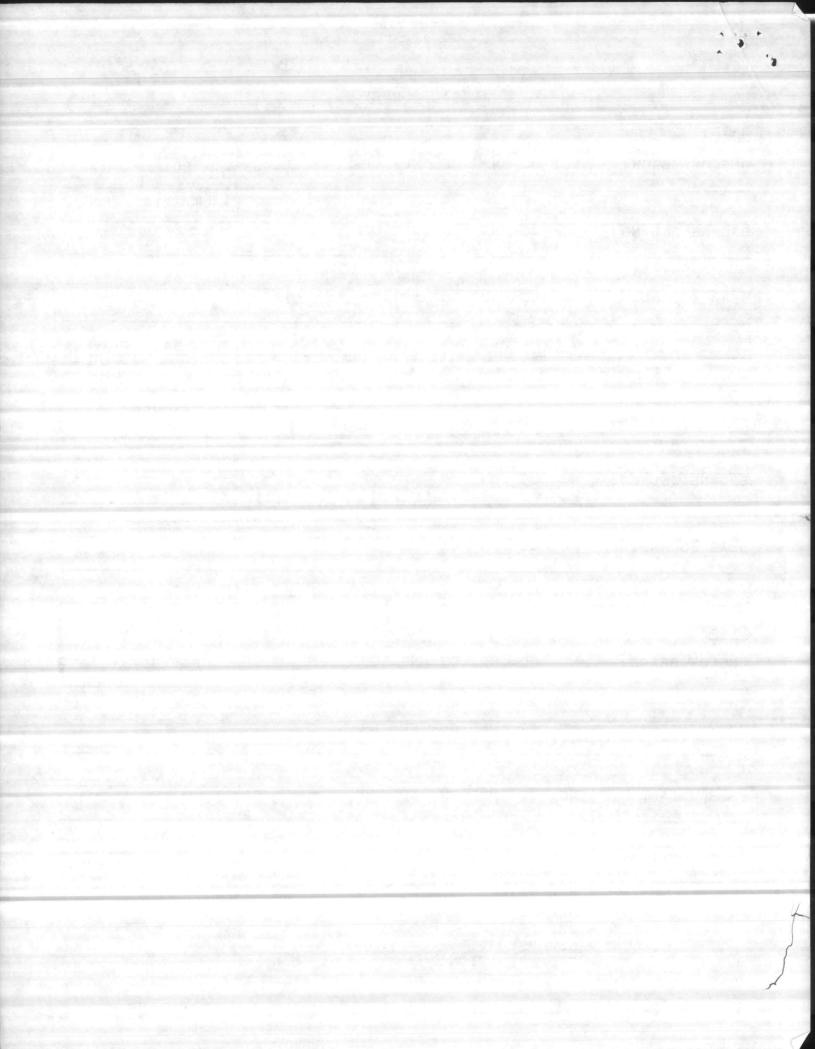
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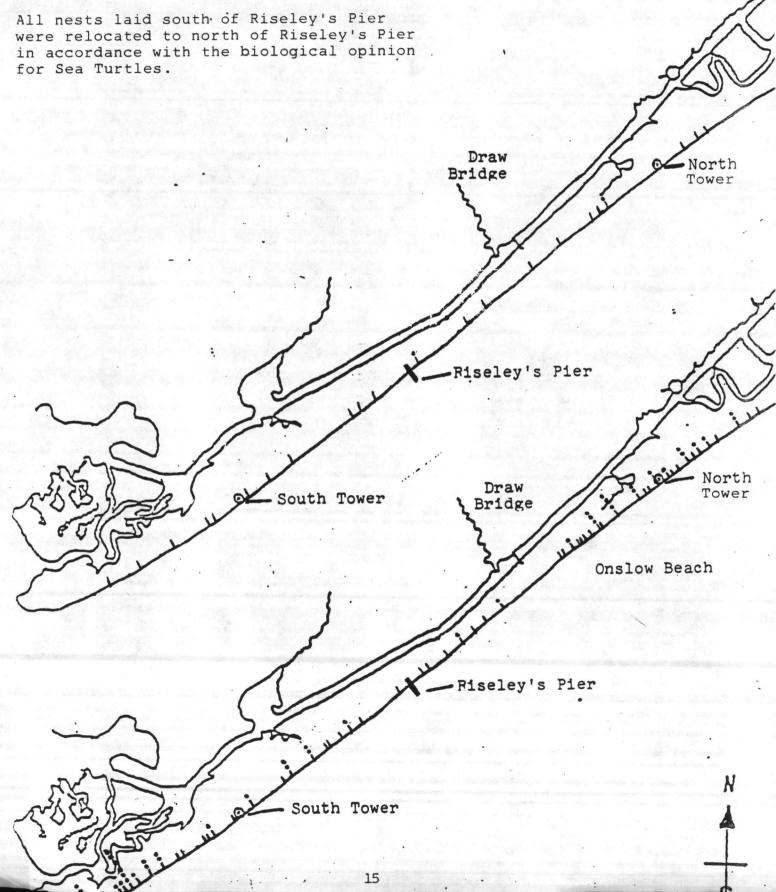


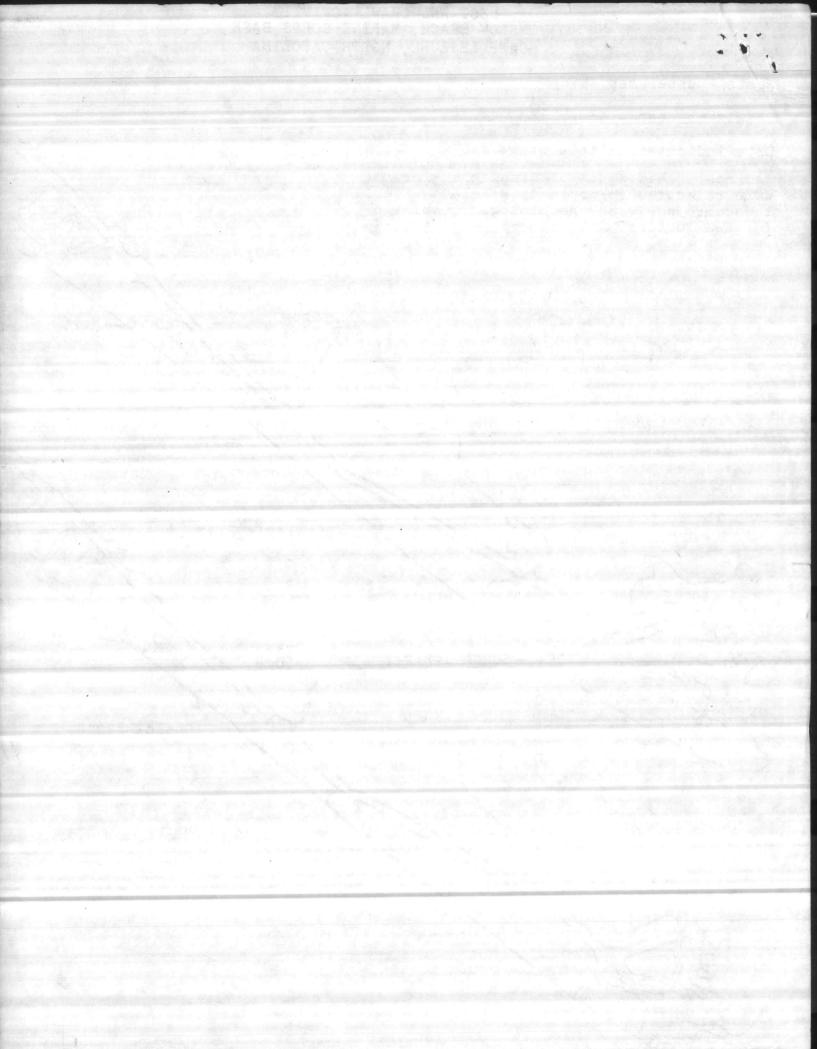
NEST AND CRAWL ACTIVITY
ONSLOW BEACH, MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

Nests - upper map

Crawls no nest - lower map

Dots indicate multiple usage





11015/1b NREAD 1 Oct 1985

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 forms for sea turtles which were tagged, and turtles that returned to nesting areas at Onslow Beach, Camp Lejeune, North Carolina during the 1985 nesting season. Some returns were from previous years and some were from turtles which were tagged during 1985.

A green turtle which previously nested four times in 1980 returned to nest five times during the 1985 nesting season. These nestings are the first ones recorded for the green turtle north of the Georgia coastline. 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 676-2195 or commercial (919) 451-1690.

Sincerely,

J. I. WOOTEN Director

Writer: C. D. Peterson, NREAD 1690 Typist: J. Cross 10ct85

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From: Director, Natural Resources and Environmental Affairs Division, Marine Corps Base, Camp Lejeune

To: Assistant Chief of Staff, Facilities, Marine Corps Base, CampLejeune

Subj: INFORMAL CONSULTATION ON THE THREATENED ATLANTIC LOGGER-HEAD AND GREEN SEA TURTLES

Ref: (a) AC/S Trng& Op, Deputy AC/S Fac, Base Safety Officer, TrngFacOfficer, EOD, NREAD personnel meeting on 3 June 1985

(b) Endangered Species Act of 1973 as amended

- (c) U.S. Fish and Wildlife Service Biological Opinion of 10 Apr 1979
- (d) U.S. Fish and Wildlife Service Biological Opinion of 5 Aug 1981
- 1. Reference (a) was conducted to address certain aspects relative to civilian personnel entering surface danger areas to perform assigned duties. One aspect of the discussion centered around NREAD personnel continuing to enter the N-1 impact area from Onslow Beach North Tower to Browns Inlet to carry out the Sea Turtle management program as outlined in references (b), (c) and (d) which has been done each summer at night since 1979.
- 2. During reference (a), Lieutenant Redmond provided information about unexploded artillery rounds on Onslow Beach near Browns Inlet. Lieutenant Redmond also advised of a recently established (one month) G-1 Range that extends from Onslow North Tower to Browns Inlet which was not addressed in previous consultations contained in references (c) and (d).
- 3. Tracked vehicles use the new range to fire 40MM smoke screen rounds inland and seaward. Duds from this training create an additional safety concern not experienced before at Onslow Beach. Currently an EOD sweep is required to enter the area.
- 4. The Sea Turtle work normally begins at dusk and continues until daybreak. Lieutenant Redmond advised during reference (a) his EOD personnel could not sweep the area at night, which essentially means Sea Turtle management work from Onslow North Tower to Browns Inlet must be terminated for safety reasons. This development and the "may effect" situation created by training in the new G-1 Range on Onslow Beach requires consultation with the U. S. Fish and Wildlife Service for compliance with reference (b).

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23 April 1985

Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune Assistant Chief of Staff, Training and Operations, Marine Corps Base, Camp Lejeune

AERIAL SURVEYS FOR SEA TURTLES

- Ref: (a) AC/S Training and Operations Memo of 3 Apr 1985
 - (b) NREAD memo 11015/1b of 29 Mar 1985
 - 1. This is in response to the comments contained in reference (a) relative to conducting sea turtle surveys at Onslow Beach during the 1985 nesting season. The radio frequency 119.5 (North Carolina Commercial Fisheries' Network) is a correct frequency as discussed with Lieutenant Colonel Cizerle on 16 April 1985. A radio on the frequency is maintained at the Range Control office.
 - 2. Flight clearance on the scheduled dates should be 0600 and 0800 hours only to correspond with enclosure (1) of reference (b).

J. I. WOOTEN By direction

Writer: C. D. Peterson, NREAD 5003

Typist: J. Cross 23Apr85

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DEPARTMENT OF THE INTERIOR U.S. FISH AND WILDLIFE SERVICE

3-201 (2/76)

2. AUTHORITY-STATUTES

16 USC 1539 (a)

REGULATIONS (Allached)

50 CFR 17.22

3. NUMBER

PRT-689394

5. MAY COPY 4. RENEWABLE XX YES XK YES O NO ON D 6. EFFECTIVE 7. EXPIRES

3/31/87 3/23/85

FEDERAL FISH AND WILDLIFE PERMIT

1. PERMITTEE

MARINE CORPS BASE

CAMP LEJEUNE

NC 28542

AND TITLE OF PRINCIPAL OFFICER (If #1 is a business)

RCTOR

ILLAN I. WOOTEN

9. TYPE OF PERMIT

ENDANGERED SPECIES

ATION WHERE AUTHORIZED ACTIVITY MAY BE CONDUCTED

CAMP LEJEUNE

DITIONS AND AUTHORIZATIONS

ENERAL CONDITIONS SET OUT IN SUBPART D'OF 50 CFR 13, AND SPECIFIC CONDITIONS CONTAINED IN FEDERAL REGULATIONS CITED IN BLOCK 12 ABOVE, ARE HEREBY MADE A PART OF THIS PERMIT. ALL ACTIVITIES AUTHORIZED HEREIN MUST BE ZABRIED OUT IN ACCORD WITH AND FOR THE PURPOSES DESCRIBED IN THE APPLICATION SUBMITTED. CONTINUED VALIDITY, OR RENEWAL OF THIS PERMIT IS SUBJECT TO COMPLETE AND TWELV COMPLIANCE WITH ALL APPLICABLE CONDITIONS, INCLUDING THE FILING OF ALL REQUIRED, INFORMATION, AND REPORTS.

ALID FOR USE BY PERMITTEE NAMED ABOVE.

Acceptance of this permit serves as evidence that the permittee understands and agrees to abide by the "Special conditions for Marine Mammals and Native Endangered and Threatened Species" (copy attached)

AUTHORIZED TO TAKE GREEN (Chalonia mydas) AND OGGERHEAD (Garetta caretta) SEA TURTLES TO TAG AND MEASURE DULTS AND TO RELOCATE NESTS FOR THE PURPOSE OF SCIENTIFIC RESEARCH AND RNHANCEMENT OF SURVIVAL, PROVIDED:

1. OHLY VESTS THREATENED BY EROSION, TIDES

REDATION OR MILITARY ACTIVITIES ARE MOVED.
2. HESTS MAY BE RELOCATED ONLY TO SAFE

NOT LABORATORIES),

HATCHING SUCCESS 3. RELOCATED NESTS ARE

THE PERMITTER MAY MOVE NESTS ONLY WITHIN 24 HOURS OF ADDITIONAL CONDITIONS AND AUTHORIZATIONS ON REVERSE ALSO APPLY

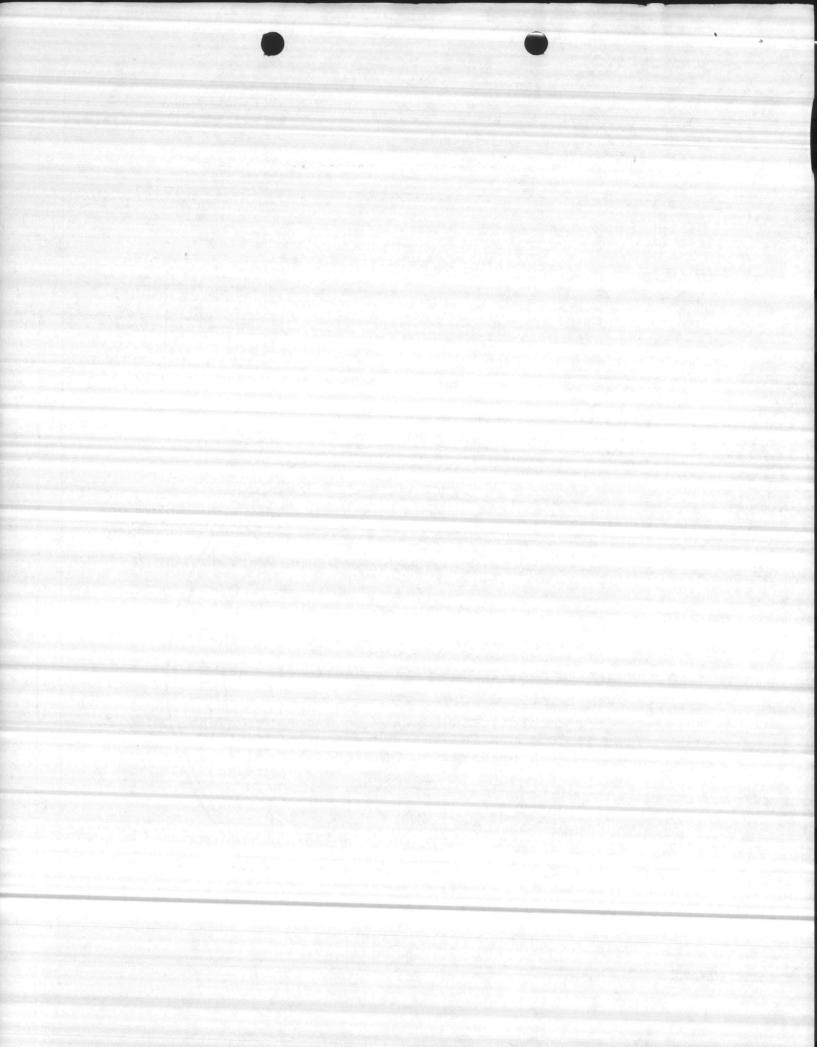
DRTING REQUIREMENTS

RST ANNUAL REPORT DUE 1/31/86 MPLETE REPORT OF ACTIVITIES MUST BE SUBMITTED TO FWPO, BOX 3654

RLINGTON, VA 22203, 1/31 OF EACH YEAR PERMIT IS IN EFFECT.

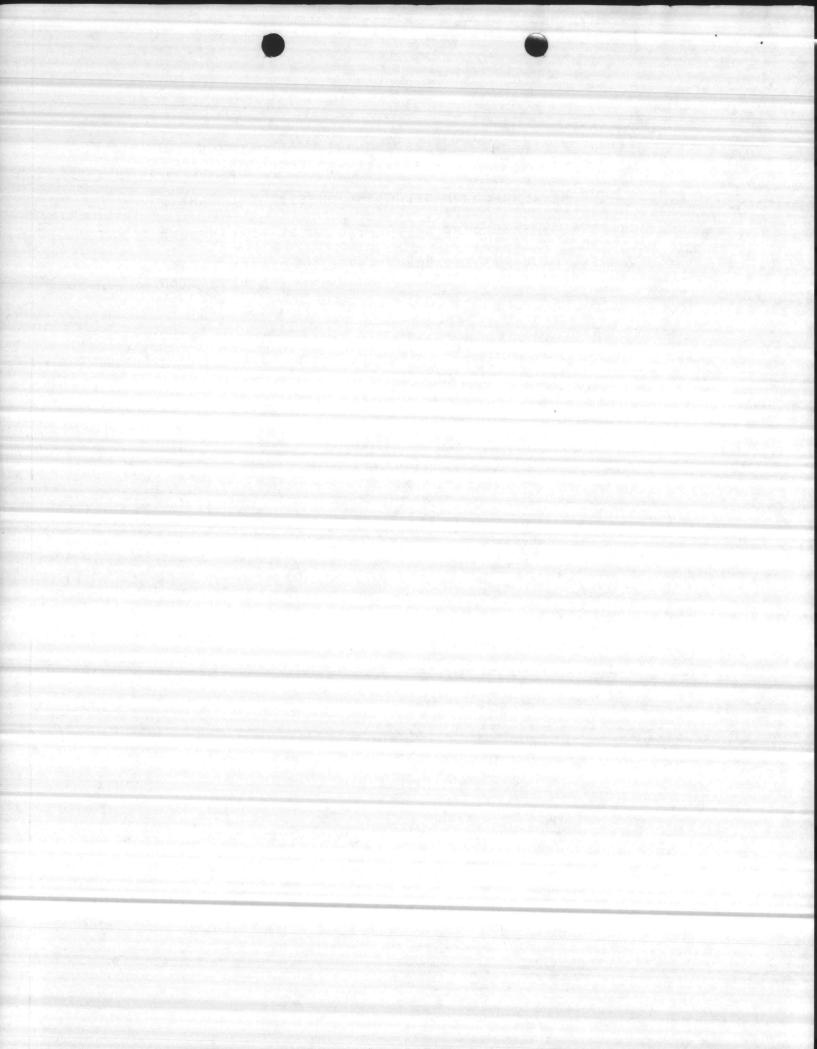
TITLE CHIEF, BRANCH OF PERMITS-FWPO

3/23/85



GG DEPOSITION OR AFTER TWO WEEKS FOLLOWING DEPOSITION (PREFERABLY EGGS SHOULD BE MOVED WITHIN 12 HOURS OF DEPOSITION), AND

- 5. NO EGGS BE REMOVED OR RELOCATED OUTSIDE THE CAMP LEJEUNE GENERAL BEACH VICINITY.
- E. NESTING FEMALES SHOULD BE DOUBLE-TAGGED BY PLACING ONE TAG ON EACH FRONT FLIPPER.
- F. THE ATLANTA, GA USFWS ENDANGERED SPECIES OFFICE (404/831-4671) MUST BE NOTIFIED BEFORE COMMENCING THE PERMITTED ACTIVITY.



acted upon.



reports of the activ under the permit. A

United States Department of the Interior

FISH AND WILDLIFE SERVICE WASHINGTON, D.C. 20240

Implemented May 1982

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13.25 Permits not transferable: agents.

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GENERAL PERMIT CONDITIONS

- shall be fled not late milling begins conducting the permitor requested. sevent has been larged]. All sections of Title 50 Code of Federal Regulations Part 13 provided on the last the normal sections of the pormit as all street on the commit as all street on the committee of the commit as all street on the commit as all reverse of this page are conditions of the permit. are original applications, as provided
- unless the remieth 2. All applicable foreign, state local or other federal laws, including those requiring permits, must be observed about a bout statement at the part of the property of the pr Where the permit is renewable and a committee intends to continue the ac-
- change in an issued permit, other than . . 5 12.35 Maintenance 3. Living specimens must be handled and shipped so as to minimize risk of the property of the state of the property of the state of the
- titled in writing by the Director, file a 4. Container in which authorized wildlife is shipped must be plainly marked with name and address of shipper and consignee and an accurate description of the contents including common and scientific name and number of each within, OR with a symbol authorized by a Symbol Marking permit. and assault He lo
- 5. Permittee must carry a copy of permit while conducting authorized activities. valid renewable permit, who has com-
- 6. Permit number must be legibly printed on all documents and advertisements involving activities conducted under permit. ties as were authorized by his expired permit until his renewal application is

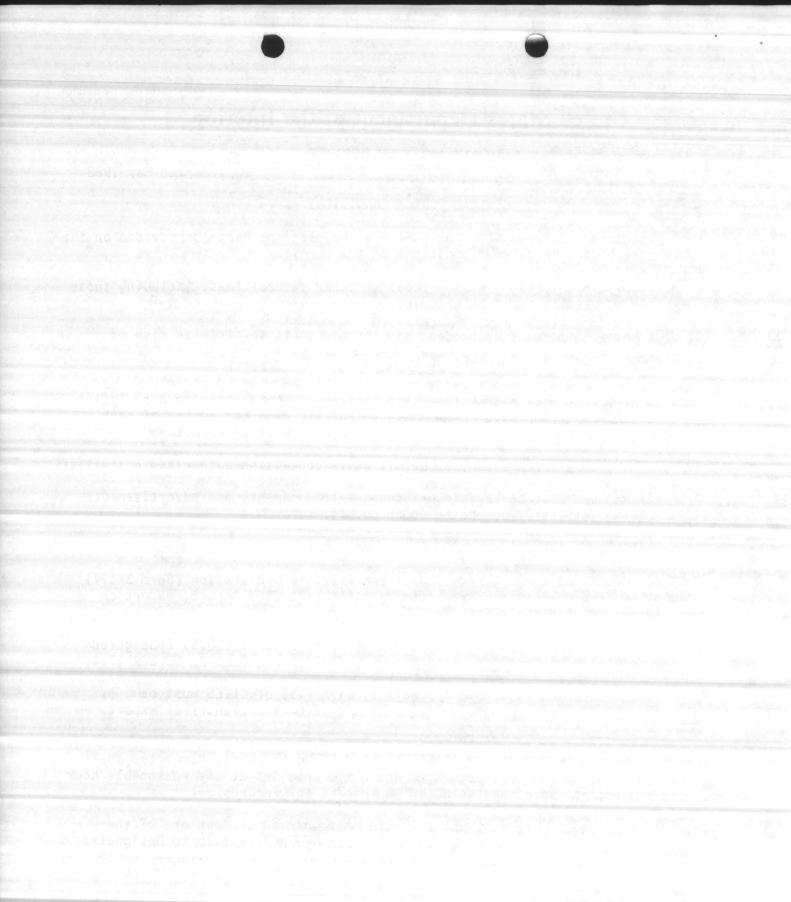
aid permit shall be deemed void propriate. Such recor For permits authorizing import, export on reexport:

- 7. This permit and a completed copy of the Wildlife Declaration (Form 3-177) must be presented to a USFWS officer at the port upon import, export on the ties in connection with a business or commercial enterprise and in the event of any lease, sale, or transfer of reexport of wildlife shipments. \$13.61 Recall and amendment of pornsi
- 8. Import, export or reexport of pre-Act wildlife under the U.S. Endangered de la second de la s Species Act must be accompanied by documentation required by 50 CFR 17.4. subject to the condition that the Serv- a whalle or
- certain limited rights of succession are 9. Import of species listed in Appendix II or III of CITES must be at a massive of accompanied by proper foreign documentation from the country of export and accompanied by proper foreign documentation from the country of export and accompanied by proper foreign documentation from the country of export and accompanied by proper foreign documentation from the country of export and accompanied by proper foreign documentation from the country of export and accompanied by proper foreign documentation from the country of export and accompanied by proper foreign documentation from the country of export and accompanied by proper foreign documentation from the country of export and accompanied by proper foreign documentation from the country of export and accompanied by proper foreign documentation from the country of export and accompanied by the countr
- 10. Import, export or reexport of plants must be made through a U.S. Department of Agriculture (USDA) port (list attached if applicable). Permittee shall allow an authorized USDA agent to enter his premises at any reasonable hour to inspect any specimens held, or to inspect any records. dates, places, methods of taking, aum
- 11. Import, export or reexport of wildlife must be made through one of the following designated ports on as authorized by an Exception to Designated Port permit: New York, NY; Miami, FL; NewsOrleans, LA; Dallas/Ft, Worth, TX; Los Angeles and San Francisco, CA; HonoTulu, H1; Seattle, WA; and Chicago, IL.

similar or related matters outside

Exception to Designated Port permittees: 10 2002

- a. Permittee is liable for all costs incurred by USFWS in examining shipments including per diem, salary and travel cost. Payment shall be by certified check or money order, payable to U.S. Fish and Wildlife Service prior to delivery of shipment to the consignee a pubno of anuntines estimated Uniess specifically permitted on the permitted activity is not required to
- b. The nearest USFWS Law Enforcement Office (list attached) must be notified at least 72 hours prior to import wexport or reexport subgood a dains change of name by reason of marriage be displayed, offered for inspection, or reason of marriage of displayed offered for any official purious schiete rompliance will





United States Department of the Interior

FISH AND WILDLIFE SERVICE WASHINGTON, D.C. 20240

Implemented June 1982

Special Conditions for Marine Mammals and Native Endangered and Threatened Species Permits

- Permittee must comply with the attached General Permit Conditions specified by the Federal Wildlife Permit Office.
- Any dead or injured specimens of the authorized wildlife found may be salvaged or cared for.
- Unless otherwise authorized on the face of the permit, the wildlife must be immediately released at or near the capture site after permitted activity.
- 4. Unexpected death or escape of the authorized wildlife shall be reported to the Federal Wildlife Permit Office (703/235-1903) before the end of the next business day.
- 5. BIRD banding, marking, radio tagging, etc. must be conducted in accordance with a Federal Bird Marking and Salvage permit.

THE FOLLOWING CONDITIONS APPLY UNTIL AUTHORIZED DISPOSAL OF THE WILDLIFE. REGARDLESS OF THE EXPIRATION DATE OF THE PERMIT:

- 6. The authorized wildlife may NOT be sold, donated or transferred unless the receiver has first been issued authorization by the Director.
- 7. Any dead authorized wildlife shall be preserved and held for scientific purposes whenever practical.
- 8. Any live SEA TURTLES held must be maintained in accordance with the "Care and Maintenance Standards for Sea Turtles Held in Captivity" specified by the Federal Wildlife Permit Office.
- 9. MARINE MAMMALS must be cared for and maintained in accordance with the Animal and Plant Health Inspection Service's regulations on "Marine Mammals; Humane Handling, Care, Treatment, and Transportation".

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13.23 Amendment of applications or per-

Where circumstances have changed to that an applicant or permittee desires to have any term or condition of his application or permit modified, he must submit in writing full justification and supporting information in conformance with the provisions of this part and the part under which the permit has been issued or requested. Such applications for modification are subject to the same issuance criteria as are original applications, as provided in § 13.21.

§ 13.24 Renewal of permit.

Where the permit is renewable and a permittee intends to continue the activity described in the permit during any portion of the year ensuing its expiration, he shall, unless otherwise notified in writing by the Director, file a request for permit renewal, together with a certified statement that the information in his original application is still currently correct, or a statement of all changes in the original application, accompanied by any required fee at least 30 days prior to the expiration of his permit. Any person holding a valid renewable permit, who has complied with the foregoing provision of this section, may continue such activities as were authorized by his expired permit until his renewal application is acted upon.

§ 13.25 Permits not transferable; agents.

(a) Permits issued under this part are not transferable or assignable. Some permits authorize certain activities in connection with a business or commercial enterprise and in the event of any lease, sale, or transfer of such business entity, the successor must obtain a permit prior to continuing the permitted activity. However, certain limited rights of succession are provided in § 13.26.

(b) Except as otherwise stated on the face of a permit, any person who is under the direct control of the permittee, or who is employed by or under contract to the permittee for the purposes authorized by the permit, may carry out the activity authorized by

the permit.

§ 13.27 Change of mailing address.

During the term of his permit, a permittee may change his mailing address without procuring a new permit. However, in every case notification of the new mailing address must be forwarded to the issuing official within 30 days after such change. This section does not authorize the change of location of the permitted activity for which an amendment must be obtained in accordance with § 13.23.

\$ 13.28 Change in name.

A permittee continuing to conduct a permitted activity is not required to obtain a new permit by reason of a mere change in trade name under which a business is conducted or a change of name by reason of marriage

Excerpts from CODE OF FEDERAL REGULATIONS (50 CFR 13)

the issuing official for endorsement within 30 days from the date the permittee begins conducting the permitted activity under the new name.

§ 13.29 Official endorsement of changes required.

Any change in a permit must be made by endorsement of the Director or issuing officer. Any modification or change in an issued permit, other than those specifically provided for in this subpart, may be granted or denied in the discretion of the Director.

§ 13.30 Certain continuancy of activity.

A permittee who furnishes his permit to the issuing official for endorsement or correction in compliance with the provisions of this subpart may continue his operations pending its return.

§ 13.31 Discontinuance of activity.

When any permittee discontinues his activity, he shall, within 30 days thereof, mail his permit and a request for cancellation to the issuing officer, and said permit shall be deemed void upon receipt. No refund of any part of an amount paid as a permit fee shall be made where the operations of the permittee are, for any reason, discontinued during the tenure of an issued permit.

§ 13.41 Recall and amendment of permit during its term.

Except for marine mammal permits (See Part 18), all permits are issued subject to the condition that the Service reserves the right to recall and amend the provisions of a permit for just cause at any time during its term. Such amendments take effect on the date of notification, unless otherwise specified.

§ 13.42 Permits are specific,

The authorizations on the face of a permit which set forth specific times. dates, places, methods of taking, numbers and kinds of wildlife or plants, location of activity, authorize certain circumscribed transactions, or otherwise permit a specifically limited matter, are to be strictly construed and shall not be interpreted to permit similar or related matters outside the scope of strict construction.

§ 13.43 Alteration of permits.

Permits shall not be altered, erased, or mutilated, and any permit which has been altered, erased, or mutilated shall immediately become invalid. Unless specifically permitted on the face thereof, no permit shall be copied, nor shall any copy of a permit issued pursuant to this Subchapter B be displayed, offered for inspection, or otherwise used for any official purpose

§ 13.44 Display of permit.

Any permit issued under this part shall be displayed for inspection upon request to the Director or his agent, or to any other person relying upon its existence.

§ 13.45 Filing of reports.

Permittees-may be required to file reports of the activities conducted under the permit. Any such reports shall be filed not later than March 31 for the preceding calendar year ending December 31, or any portion thereof, during which a permit was in force, unless the regulations of this Subchapter B or the provisions of the permit set forth other reporting requirements.

§ 13.46 Maintenance of records.

From the date of issuance of the permit, the permittee shall maintain complete and accurate records of any possession, transportation. taking. sale, purchase, barter, exportation, or importation of plants obtained from the wild (excluding seeds) or wildlife pursuant to such permit. Such records shall be kept current and shall include names and addresses of persons with whom any plant obtained from the wild (excluding seeds) or wildlife has been purchased, sold, bartered, or otherwise transferred, and the date of such transaction, and such other in-formation as may be required or appropriate. Such records, unless otherwise specified, shall be entered in books, legibly written in the English language. Such records shall be retained for 5 years from the date of issuance of the permit.

§ 13.47 Inspection requirement.

Any person holding a permit under this Subchapter B shall allow the Director's agent to enter his premises at any reasonable hour to inspect any wildlife or plant held or to inspect, audit, or copy any permits, books, or records required to be kept by regulations of this Subchapter B.

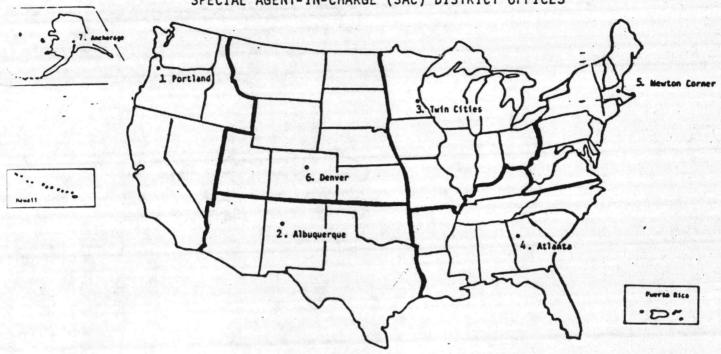
§ 13.51 Penalties for violation of a permit, notice; demonstration of compliance.

- (a) Any violation of the applicable provisions of this subchapter, or of the statute under which the permit was issued, or a condition of the permit may subject the permittee to the following penalties:
- (1) The penalty provided in the statute under which the permit was issued:
- (2) Temporary suspension of the permit for a specified period; and
- (3) Revocation of the permit. When revoked, permits must be surrendered to the Director on demand.
- (b) Except in cases of wilfullness or those in which the public health safety or interest requires, and prior to any suspension or revocation of a permit, the permittee shall be given:
- (1) Notice by the Service in writing of the facts or conduct which may warrant the suspension or revocation; and
- (2) Opportunity to demonstrate or achieve compliance with all permit re-

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February 1985

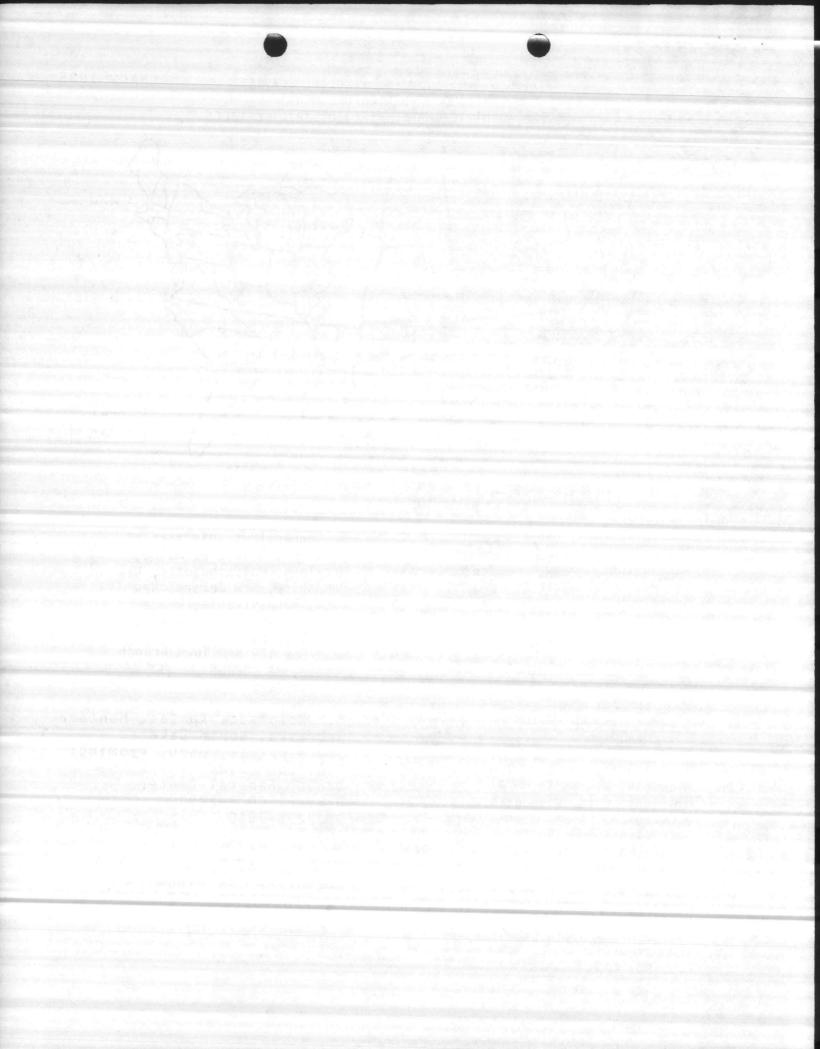
UNITED STATES FISH AND WILDLIFE SERVICE DIVISION OF LAW ENFORCEMENT SPECIAL AGENT-IN-CHARGE (SAC) DISTRICT OFFICES



- 1. California, Hawaii, Idaho, Nevada, Oregon, Washington:
 847 N.E. 19th Street
 Suite 225
 Portland, OR 97232
 503/231-6125
- 2. Arizona, New Mexico, Oklahoma, Texas: P.O. Box 329 Albuquerque, NM 87103 505/766-2091
- 3. Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, Wisconsin: P.O. Box 45
 Twin Cities, MN 55111
 612/725-3530
- 4. Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, Puerto Rico, South Carolina, Tennessee:
 P.O. Box 4839
 Atlanta, GA 30302
 404/221-5872

- 5. Connecticut, District of Columbia, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, West Virginia:
 P.O. Box 129 New Town Branch Boston, MA 02258
 617/965-2298
- 6. Colorado, Kansas, Montana Nebraska, North Dakota, South Dakota, Utah, Wyoming: P.O. Box 25486 Denver Federal Center Denver, CO 80225 303/236-7540
- 7. Alaska P.O. Box 4-2597 Anchorage, AK 99509 907/786-3311

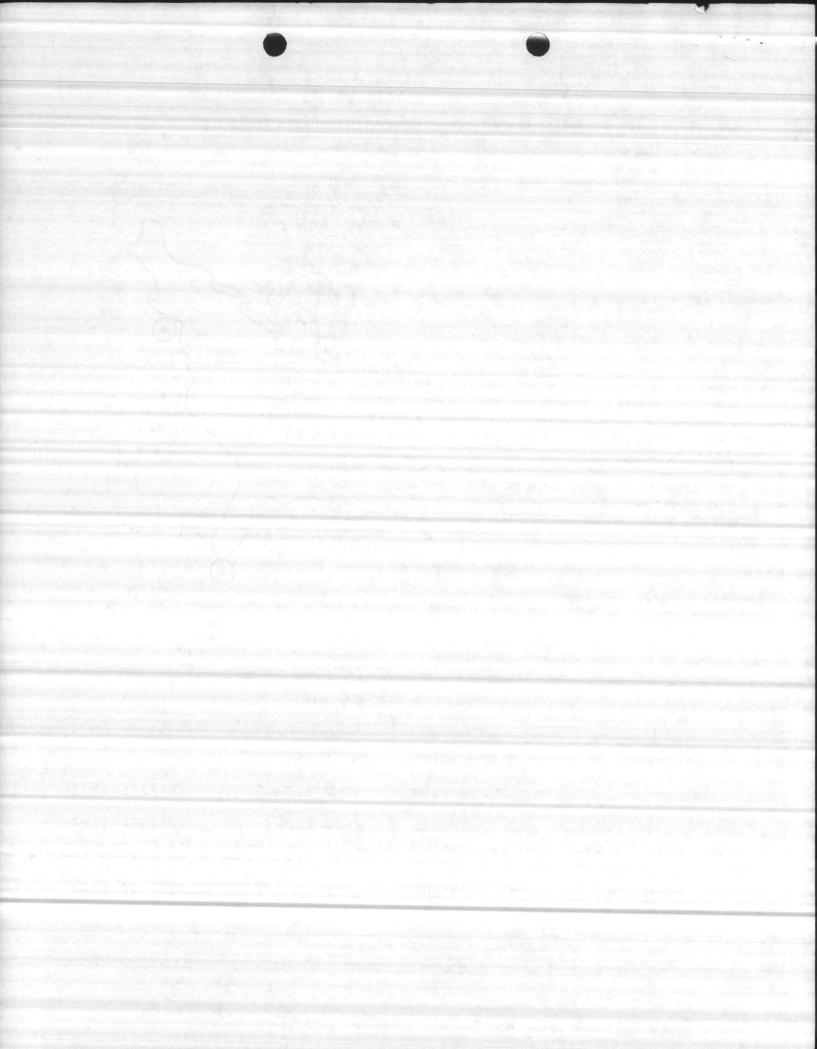
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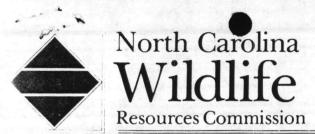


U.S. Fish and Wildlife Service Designated Ports (50 CFR 14.12)



504/255-6575 312/298-3250 New Orleans: Chicago: 718/917-1767 817/334-5205 Dallas/Fort Worth: New York: 415/344-5900 San Francisco: Honolulu: 808/546-5602 206/442-5543 213/436-1183 Seattle: Los Angeles: 305/350-1767 Miami:





Archdale Building, 512 N. Salisbury Street, Raleigh, North Carolina 27611, 919-733-3391

April 2, 1985

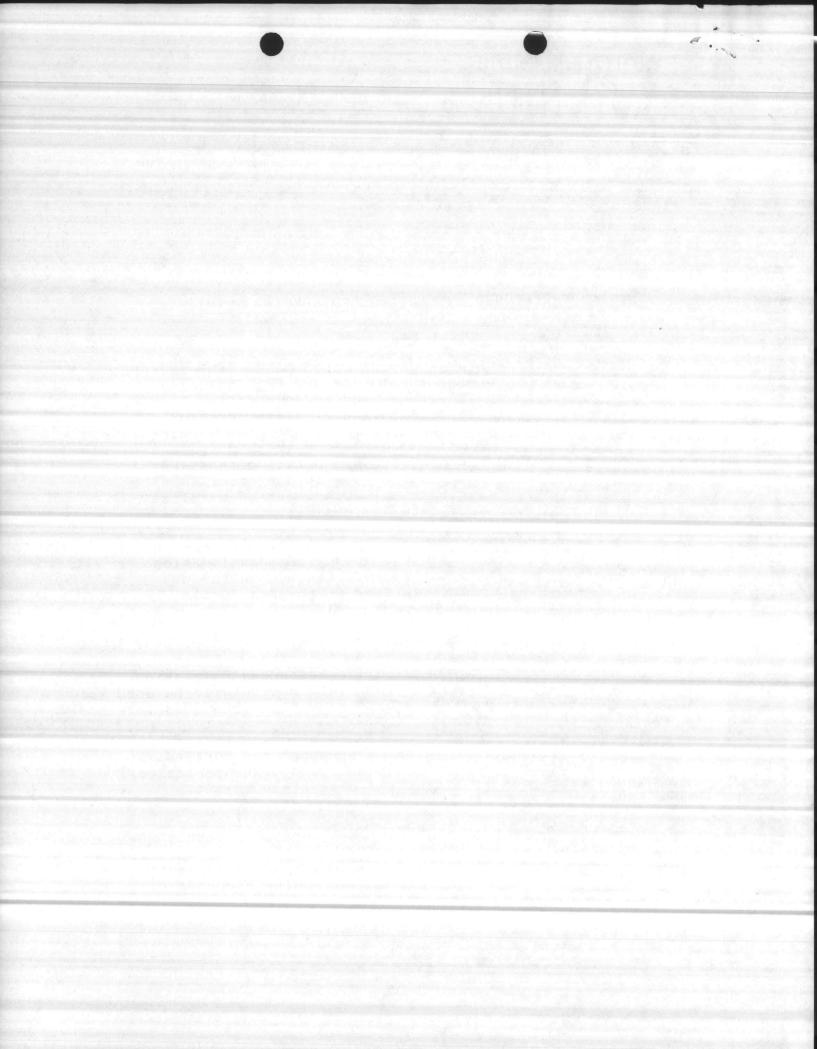
SPECIAL THREATENED AND ENDANGERED SPECIES PERMIT

MR. JULIAN WOOTEN, CAMP LEJUNE MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542 is authorized to conduct the following activities with Federally Threatened and Endangered Sea Turtles and as specified on the Federal Fish and Wildlife Threatened Species Permit and as follows Section 7 Consultation Requirements:

- 1. Relocate sea turtle nests: This permit authorizes the relocation of nests that are in danger of loss to erosion or overwash to a suitable location as close to the original nest site as feasible.
 - a. The guidelines to be followed in evaluating a threatened nest and the method of translocation are attached to this permit (attachment A) and follow the recommendations of the Sea Turtle Recovery Plan.
 - b. A final report of annual activities and copies of individual nest data sheets (attachment B) are to be submitted to the Wildlife Resources Commission by December 1, 1985. This information will be used to evaluate and improve conservation tehniques in North Carolina.
- Possession and disposition of stranded sea turtles: This permit authorizes the possession, transportation and disposition of living and dead stranded sea turtles.
 - a. A N.C. Sea Turtle Stranding Report Form (attachment C) is to be completed and submitted to the Wildlife Resources Commission Endangered Species Project Leader at the time of each stranding occurrence.

Robert Gordon, Laurinburg

W. Vernon Bevill, Raleigh Executive Director M. Woodrow Price, Gloucesce, Vice-Chairman



SPECIAL THREATENED AND ENDANGERED SPECIES PERMIT

Mr. Julian Wooten

b. The WRC Endangered Species Project Leader is to be contacted immediately following stranding events that involve five or more strandings within a forty-eight (48) hour period.

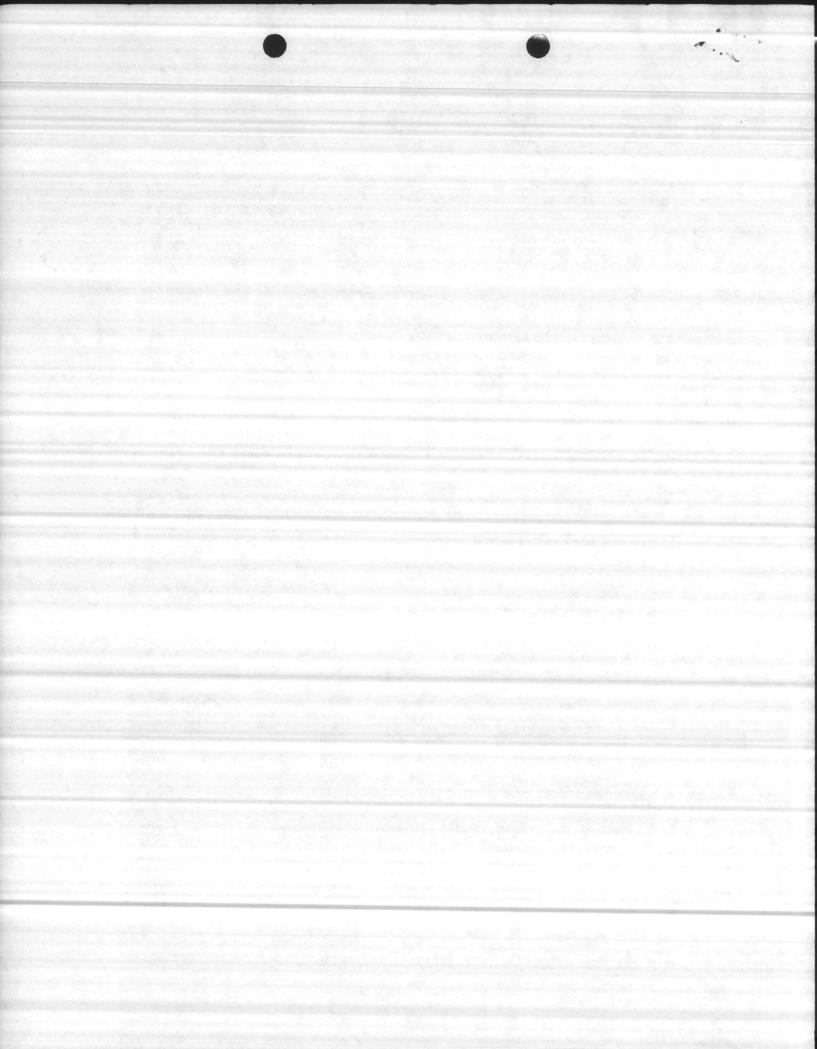
3. All individuals conducting activities under this permit must be trained by the permittee or the WRC Endangered Species Project Leader.

This permit will expire April 30, 1986.

Deborah S. Paul
Deborah S. Paul
Deborah S. Paul

Deborah S. Paul, Chief Youth Activities and Environmental Quality Section

DSP/lp Enclosures (3)



NORTH CAROLINA SEA TURTLE CONSERVATION PROGRAM

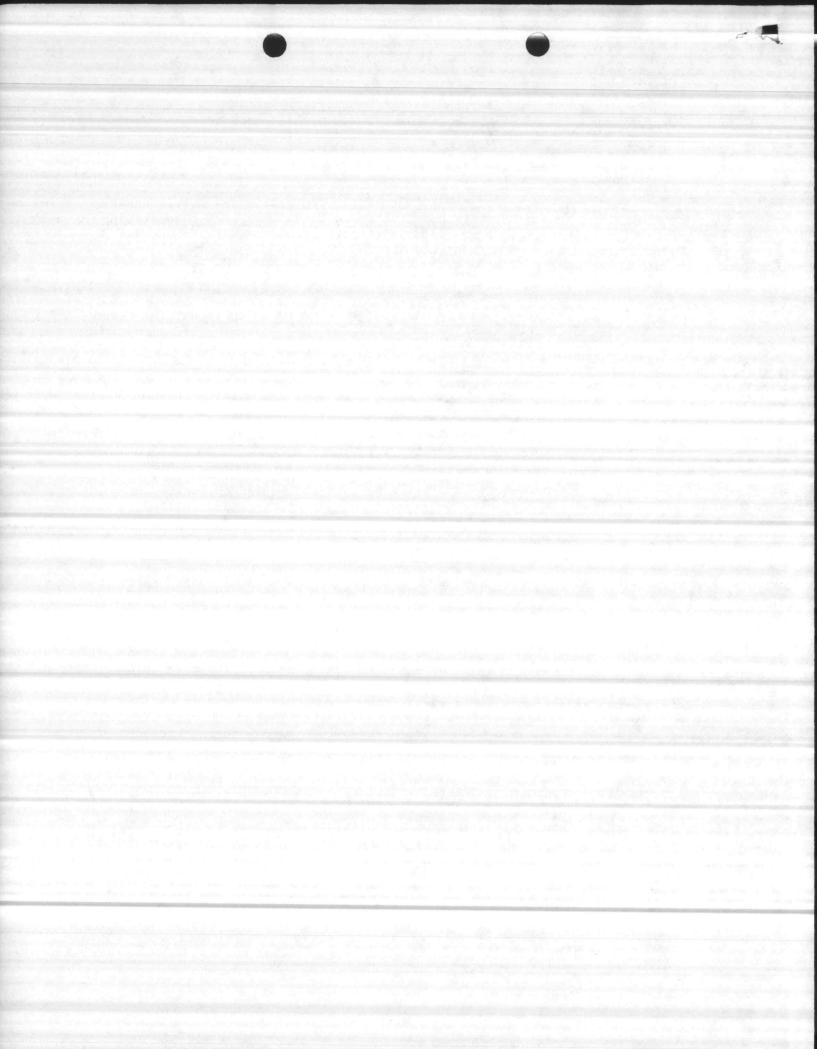
SEA TURTLE NEST MANAGEMENT GUIDELINES

These are the guidelines to be used in protecting sea turtle nests in North Carolina. Anyone engaged in these activities must be operating under the authority of a valid state threatened and endangered species permit issued by the North Carolina Wildlife Resources Commission.

Nest Protection

Sea turtle eggs should be allowed to incubate in their natural beach setting whenever they are likely to survive. The following are situations that could affect nest survivorship:

- 1. Beach erosion or overwash by the sea: Consider moving the nest if in your judgement the nest will not survive the 60 to 80 days to hatching. If the decision to move the nest is made, follow these guidelines:
 - a. Use extreme care in attempting to locate eggs. A probe should be used only by experienced personnel and only after extensive digging by hand has failed to locate the nest. If a probe is used, any broken eggs and spilled contents should be removed to prevent the clutch from rotting.
 - b. Once the eggs are located, excavate them by hand quickly and carefully. Transport them in a rigid container with the moist sand of the nest. Do not allow the eggs to become dry.
 - of laying is higher than for older nests. The developing embryo adheres to the side of the egg shell some time after six hours so extreme care should be used in moving older nests to maintain the orientation of the egg. By marking the top of each egg with a pencil during excavation, they can be placed in the new nest with the same axial orientation.
 - d. The relocation site for the nest should be as close to the original nest site as feasible. A nest chamber should be excavated with similar dimensions to the natural nest. Once the eggs have been carefully placed in the chamber and the sand from the original nest put on top, the neck of the chamber should be filled and packed firmly as the female turtle does with her flippers and body.



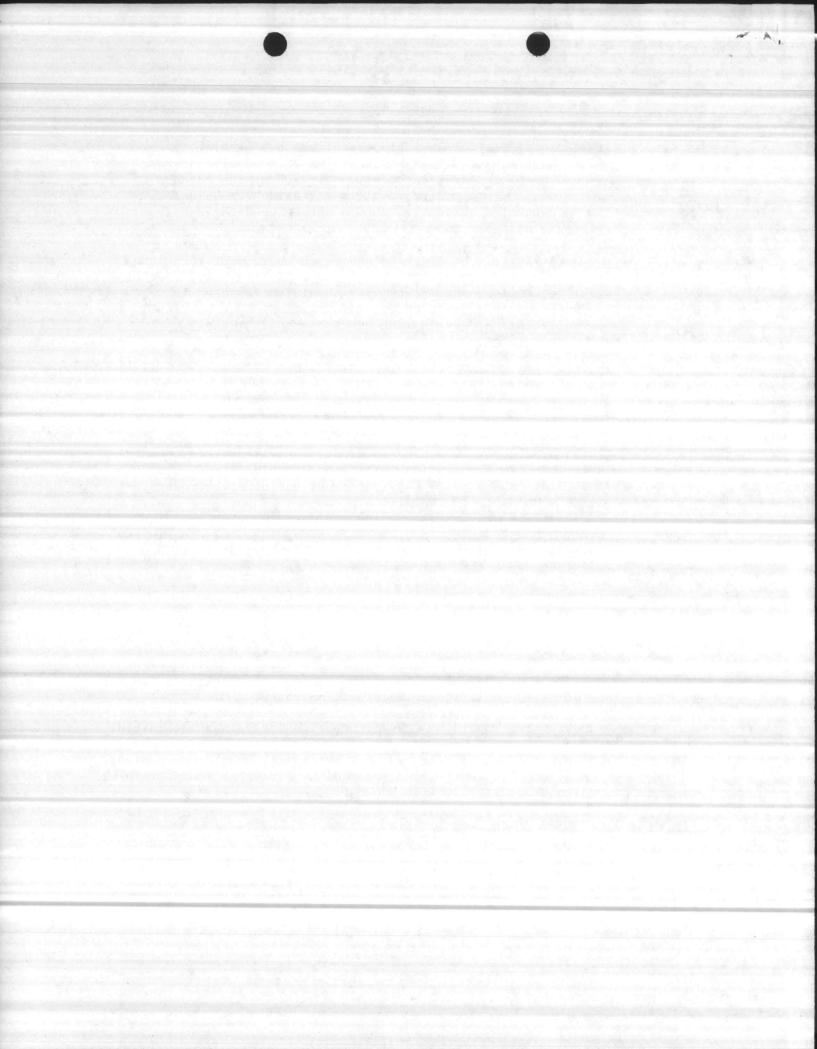
- 2. Predation: On beaches where predation is a problem, a one meter square piece of galvanized 1" X 2" mesh wire screen should be placed over the nest and staked at the corners and sides. Other effective "self-releasing" techniques are acceptable. Predation should not be used to justify moving a nest.
- 3. Human activity: Local rules and beach management techniques should be used to prevent impact on nests from heavy foot or vehicle traffic. Human activity should not be used to justify moving a nest (except as specified under Section 7 consultation agreements with USFWS on federal lands).
- 4. Beach hatcheries: The decision to place a nest in a hatchery should be made only if no natural location is available. Due to the influences of temperature on sex ratio and the vulnerability of clustered nests, an extremely conservative approach should be used in deciding to use a hatchery.

A beach hatchery should be located in a well-drained, unshaded area free from vegetation. The sides should extend about 0.5 meter into the sand to keep out crabs and other burrowers. Nests should be located at least one meter apart. A small enclosure should be placed around a nest to catch emerging turtles and left in place to catch stragglers emerging in the following days. Hatcheries should be checked at least at midnight and 6 a.m. for emerged hatchlings.

Data Collection

All individuals cooperating in North Carolina's Sea Turtle Conservation Program are requested to use the same nest data sheets. This information will be used to evaluate and refine sea turtle management techniques as well as learn more about the biology of Loggerhead Sea Turtles at the northern limit of their nesting range.

Nest excavations should be done either five days after the initial emergence of a nest or 85 days after the laying date. The number of hatched and unhatched eggs, live and dead hatchlings should be counted. Unhatched eggs should be opened and recorded as having an indiscernible, large or small embryo as listed on the data sheet.



NORTH CAROLINA SEA TURTLE CONSERVATION 1985

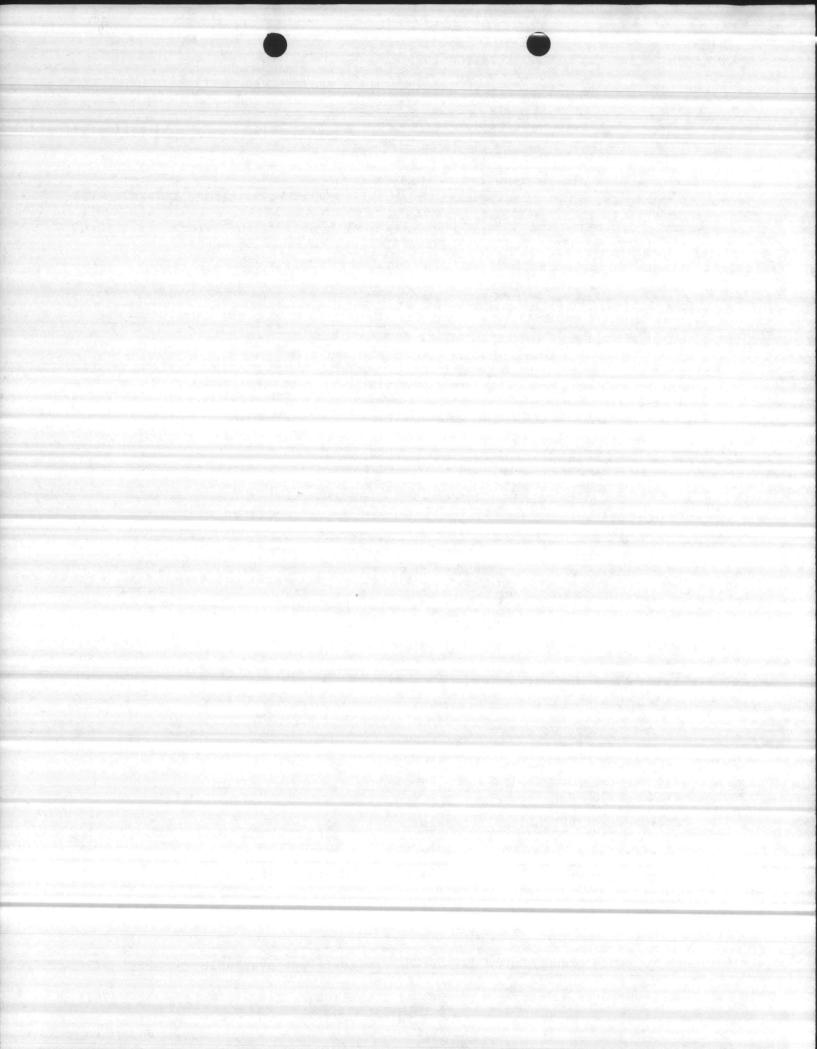
TURTLE NEST DATA SHEET

PROJECT	NAME	

ite description				(esti	
tre description _		1980			2
			Turtle observed?	Y/N Tags?	Y/N
distance from high	tide		ace length cm dard curve measure or		cm
est Treatment: M W R	wired				
н	hatchery.	U			
Relocated where?					
Number of eggs: wi	hole	broker	n nest	depth	cm
omments (predation					
		4 4			
ATCHING DATA					
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NC Nongame & Endangered Wildlife Program, 512 N. Salisbury Street, Raleigh NC 27611



NORTH CAROLINA SEA TURTLE CONSERVATION Sea Turtle Stranding and Salvage Observation Report

Please print clearly and take shell measurements over-the-curve (tape). Measure length from the base of the nuchal notch at the neck to the tip of the most posterior scute (see diagram). Measure width at widest part of the shell. Be sure to circle units (CM = centimeters and IN = inches). Include measurements in box below.

Observer's full name	Date Par month day
Address (Affiliation	
Address/Affiliation Turtle number by day State	Coordinator's initials
Species code Reliability of I.D	Say
Latitude Longitude NC Strar	
Latitude Longitude NC Strai	iding negion
Location (include closest town) Would Condition of animal Would Description	nds/mutilations
	ids/illutilations
Had animal been spray painted when found? Y / N	
Tag No Disposition of tag and informat	ion
Final disposition of carcass If 3, where sent?	?
Remarks (note if turtle was involved with tar or oil)	
	CODES:
SPECIES: CC = Loggerhead CM = Green	SEX
LK = Kemp's ridley	F = Female
DC = Leatherback	M = Male
EI = Hawksbill UK = Unknown	U = Unknown
	RELIABILITY OF I.D.
MEASUREMENTS: CM / IN	1 = Unsure
A	2 = Probable 3 = Sure
Length	
Width NUCHAL NOTCH	CONDITION OF ANIMAL 0 = Alive
	1 = Fresh
Tail Length	2 = Brewing
(from shell to tip of tail)	3 = Soupy, foul, stinking 4 = Falling apart
	5 = Skeleton
	FINAL DISPOSITION OF CARCASS
	1 = Painted, left on beach
	2 = Buried; on beach / off beach
Mark wounds,	3 = Salvaged specimen; all / par
abnormalities, and tag locations	4 = Pulled up on dung. 5 = Unpainted, left on beach
and tay locations	6 = Released

Return to: North Carolina Nongame & Endangered Wildlife Program, N.C. Wildlife Resources Commission, 512 N. Salisbury Street, Raleigh, N.C. 27611

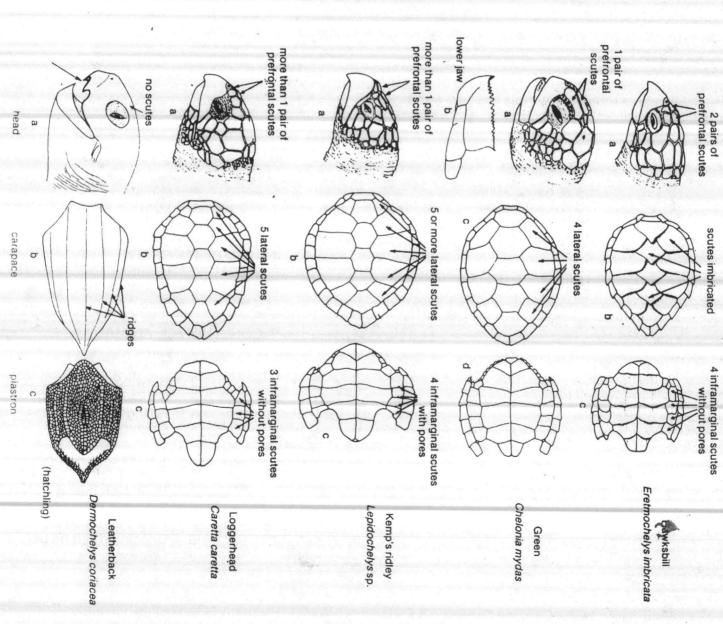
North Carolina Wildlife Resources Commission Nongame and Endangered Wildlife Program Endangered Species Project Leader 512 N. Salisbury St. Raleigh, NC 27611

. 6



PICTURE GUIDE TO SPECIES OCCURRING IN THE AREA

FOLD IN THIRDS



NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS Marine Corps Base Camp Lejeune, North Carolina 28542

3-29-85 Date

From: Director Subj: Twylal

Make 3 copies fo

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3.201 (2/76)

2. AUTHORITY-STATUTES

16 USC 1539 (a)

REGULATIONS (Attached)

50 CFR 17.22

3. NUMBER

PRT-689394

A RENEWARIE 5 MAY COPY XX YES XX YES T NO O NO

6. EFFECTIVE 7. EXPIRES

3/23/85 3/31/87

FEDERAL FISH AND WILDLIFE PERMIT

1. PERMITTEE

MARINE CORPS BASE

CAMP LEJEUNE

NC 28542

8. NAME AND TITLE OF PRINCIPAL OFFICER (If #1 is a business).

DIRECTOR

JULIAN I. WOOTEN

9. TYPE OF PERMIT

ENDANGERED SPECIES

10. LOCATION WHERE AUTHORIZED ACTIVITY MAY BE CONDUCTED

CAMP LEJEUNE, NORTH CAROLINA

11. CONDITIONS AND AUTHORIZATIONS:

- A. GENERAL CONDITIONS SET OUT IN SUBPART DOF 50 CFR 13, AND SPECIFIC CONDITIONS CONTAINED IN FEDERAL REGULATIONS CITED IN BLOCK #2 ABOVE, ARE HEREBY MADE A PART OF THIS PERMIT. ALL ACTIVITIES AUTHORIZED HEREIN MUST BE CARRIED OUT IN ACCORD WITH AND FOR THE PURPOSES DESCRIBED IN THE APPLICATION SUBMITTED. CONTINUED VALIDITY, OR RENEWAL, OF THIS PERMIT IS SUBJECT TO COMPLETE AND TIMELY COMPLIANCE WITH ALL APPLICABLE CONDITIONS, INCLUDING THE FILING OF ALL REQUIRED INFORMATION AND REPORTS.
- B. THE VALIDITY OF THIS PERMIT IS ALSO CONDITIONED UPON STRICT OBSERVANCE OF ALL APPLICABLE FOREIGN, STATE, LOCAL OR OTHER FEDERAL LAW.
- C. VALID FOR USE BY PERMITTEE NAMED ABOVE
 - D. Acceptance of this permit serves as evidence that the permittee understands and agrees to abride by the "Special Conditions for Marine Manmals and Native Endangered and Threatened Species" (copy attached).
 - E. AUTHORIZED TO TAKE GREEN (Chelonia mydas) AND LOGGERHEAD (Caretta caretta) STACTURTLES TO TAG AND MEASURE ADULTS AND TO RELOCATE NESTS, FOR THE PURPOSE OF SCIENTIFIC RESEARCH AND ENHANCEMENT OF SURVIVAL, PROVIDED:
 - 1. ONLY VESTS THREATENED BY EROSTON, TIDES,
 - PREDATION OR MILITARY ACTIVITIES ARE MOVED, NESTS MAY BE RELOCATED ONLY TO SAFE BEACH
 - (NOT LABORATORIES), RELOCATED NESTS ARE MONETORED AND HATCHING SUCCESS
 - RECORDED,
- THE PERMITTEE MAY MOVE NESTS ONLY WITHIN 24 HOURS OF ADDITIONAL CONDITIONS AND AUTHORIZATIONS ON REVERSE ALSO

FIRST ANNUAL REPORT DUE 1/31/86 COMPLETE REPORT OF ACTIVITIES MUST BE SUBMITTED TO FWPO, BOX 3654 ARLINGTON, VA 22203, 1/31 OF EACH YEAR PERMIT IS IN EFFECT.

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EGG DEPOSITION OR AFTER TWO WEEKS FOLLOWING DEPOSITION (PREFERABLY EGGS SHOULD BE MOVED WITHIN 12 HOURS OF DEPOSITION), AND

- 5. NO EGGS BE REMOVED OR RELOCATED OUTSIDE THE CAMP LEJEUNE GENERAL BEACH VICINITY.
- E. NESTING FEMALES SHOULD BE DOUBLE-TAGGED BY PLACING ONE TAG ON EACH FRONT FLIPPER.
- F. THE ATLANTA, GA USFWS ENDANGERED SPECIES OFFICE (404/831-4671) MUST BE NOTIFIED BEFORE COMMENCING THE PERMITTED ACTIVITY.



United States Department of the Interior

FISH AND WILDLIFE SERVICE WASHINGTON, D.C. 20240

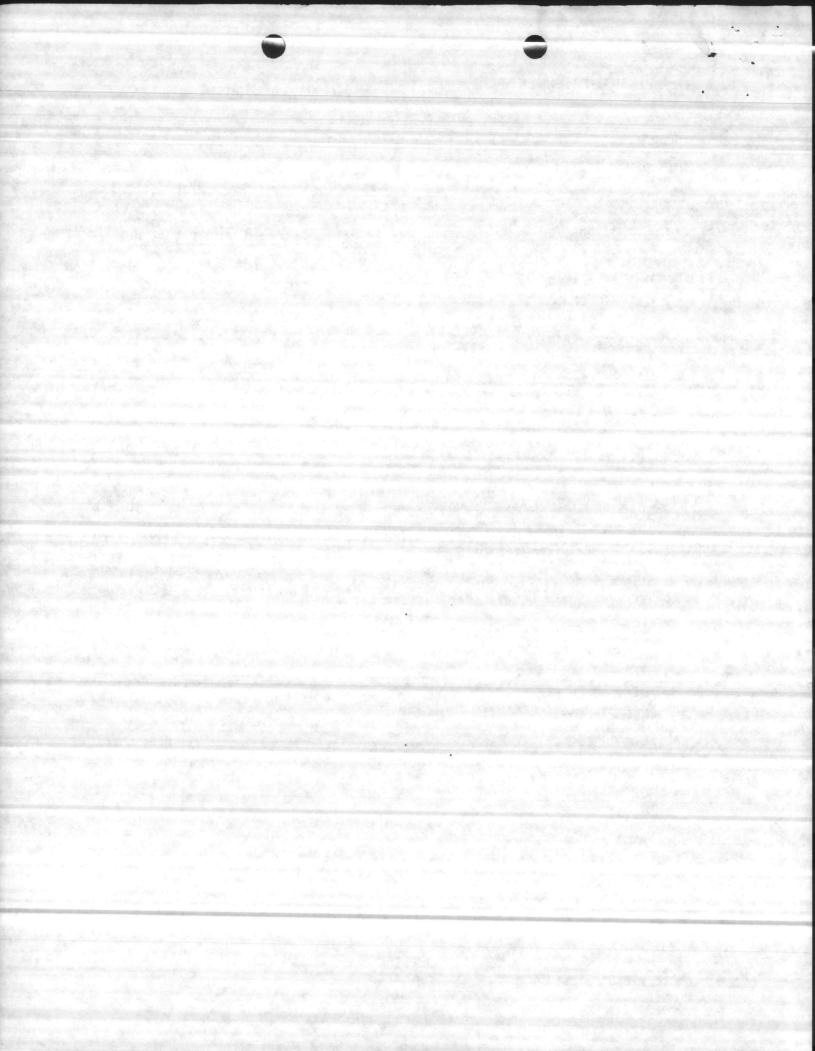
Implemented June 1982

Special Conditions for Marine Mammals and Native Endangered and Threatened Species Permits

- Permittee must comply with the attached General Permit Conditions specified by the Federal Wildlife Permit Office.
- Any dead or injured specimens of the authorized wildlife found may be salvaged or cared for.
- Unless otherwise authorized on the face of the permit, the wildlife must be immediately released at or near the capture site after permitted activity.
- 4. Unexpected death or escape of the authorized wildlife shall be reported to the Federal Wildlife Permit Office (703/235-1903) before the end of the next business day.
- 5. BIRD banding, marking, radio tagging, etc. must be conducted in accordance with a Federal Bird Marking and Salvage permit.

THE FOLLOWING CONDITIONS APPLY UNTIL AUTHORIZED DISPOSAL OF THE WILDLIFE, REGARDLESS OF THE EXPIRATION DATE OF THE PERMIT:

- 6. The authorized wildlife may NOT be sold, donated or transferred unless the receiver has first been issued authorization by the Director.
- Any dead authorized wildlife shall be preserved and held for scientific purposes whenever practical.
- 8. Any live SEA TURTLES held must be maintained in accordance with the "Care and Maintenance Standards for Sea Turtles Held in Captivity" specified by the Federal Wildlife Permit Office.
- MARINE MAMMALS must be cared for and maintained in accordance with the Animal and Plant Health Inspection Service's regulations on "Marine Mammals; Humane Handling, Care, Treatment, and Transportation".



ADDRESS ONLY THE DIRECTOR.
FISH AND WILDLIFE SERVICE



United States Department of the Interior

FISH AND WILDLIFE SERVICE WASHINGTON, D.C. 20240

Implemented May 1982

GENERAL PERMIT CONDITIONS

- 1. All sections of Title 50 Code of Federal Regulations Part 13 provided on the reverse of this page are conditions of the permit.
- 2. All applicable foreign, state, local or other federal laws, including those requiring permits, must be observed.
- 3. Living specimens must be handled and shipped so as to minimize risk of injury, damage to health or cruel treatment.
- 4. Container in which authorized wildlife is shipped must be plainly marked with name and address of shipper and consignee and an accurate description of the contents including common and scientific name and number of each within, OR with a symbol authorized by a Symbol Marking permit.
- 5. Permittee must carry a copy of permit while conducting authorized activities.
- 6. Permit number must be legibly printed on all documents and advertisements involving activities conducted under permit.

For permits authorizing import, export or reexport:

- 7. This permit and a completed copy of the Wildlife Declaration (Form 3-177) must be presented to a USFWS officer at the port upon import, export or reexport of wildlife shipments.
- 8. Import, export or reexport of pre-Act wildlife under the U.S. Endangered Species Act must be accompanied by documentation required by 50 CFR 17.4.
- 9. Import of species listed in Appendix I, II or III of CITES must be accompanied by proper foreign documentation from the country of export.
- 10. Import, export or reexport of plants must be made through a U.S. Department of Agriculture (USDA) port (list attached if applicable). Permittee shall allow an authorized USDA agent to enter his premises at any reasonable hour to inspect any specimens held, or to inspect any records.
- 11. Import, export or reexport of wildlife must be made through one of the following designated ports or as authorized by an Exception to Designated Port permit: New York, NY; Miami, FL; New Orleans, LA; Dallas/Ft. Worth, TX; Los Angeles and San Francisco, CA; Honolulu, HI; Seattle, WA; and Chicago, IL.

Exception to Designated Port permittees:

- a. Permittee is liable for all costs incurred by USFWS in examining shipments including per diem, salary and travel cost. Payment shall be by certified check or money order, payable to U.S. Fish and Wildlife Service prior to delivery of shipment to the consignee.
- b. The nearest USFWS Law Enforcement Office (list attached) must be notified at least 72 hours prior to import, export or reexport.

§ 13.23 Amendment of applications or permits.

Where circumstances have changed so that an applicant or permittee desires to have any term or condition of his application or permit modified, he must submit in writing full justification and supporting information in conformance with the provisions of this part and the part under which the permit has been issued or requested. Such applications for modification are subject to the same issuance criteria as are original applications, as provided in § 13.21.

§ 13.24 Renewal of permit.

Where the permit is renewable and a permittee intends to continue the activity described in the permit during any portion of the year ensuing its expiration, he shall, unless otherwise notified in writing by the Director, file a request for permit renewal, together with a certified statement that the information in his original application is still currently correct, or a statement of all changes in the original application, accompanied by any required fee at least 30 days prior to the expiration of his permit. Any person holding a valid renewable permit, who has complied with the foregoing provision of this section, may continue such activities as were authorized by his expired permit until his renewal application is acted upon.

§ 13.25 Permits not transferable; agents.

(a) Permits issued under this part are not transferable or assignable. Some permits authorize certain activities in connection with a business or commercial enterprise and in the event of any lease, sale, or transfer of such business entity, the successor must obtain a permit prior to continuing the permitted activity. However, certain limited rights of succession are provided in § 13.26.

(b) Except as otherwise stated on the face of a permit, any person who is under the direct control of the permittee, or who is employed by or under contract to the permittee for the purposes authorized by the permit, may carry out the activity authorized by the permit.

§ 13.27 Change of mailing address.

During the term of his permit, a permittee may change his mailing address without procuring a new permit. However, in every case notification of the new mailing address must be forwarded to the issuing official within 30 days after such change. This section does not authorize the change of location of the permitted activity for which an amendment must be obtained in accordance with § 13.23.

§ 13.28 Change in name.

A permittee continuing to conduct a permitted activity is not required to obtain a new permit by reason of a mere change in trade name under which a business is conducted or a change of name by reason of marriage or legal decree: Provided, That such permittee must furnish his permit to

Excerpts from CODE OF FEDERAL REGULATIONS (50 CFR 13)

the issuing official for endorsement within 30 days from the date the permittee begins conducting the permitted activity under the new name.

§ 13.29 Official endorsement of changes

Any change in a permit must be made by endorsement of the Director or issuing officer. Any modification or change in an issued permit, other than those specifically provided for in this subpart, may be granted or denied in the discretion of the Director.

§ 13.30 Certain continuancy of activity.

A permittee who furnishes his permit to the issuing official for endorsement or correction in compliance with the provisions of this subpart may continue his operations pending its return.

§ 13.31 Discontinuance of activity.

When any permittee discontinues his activity, he shall, within 30 days thereof, mail his permit and a request for cancellation to the issuing officer, and said permit shall be deemed void upon receipt. No refund of any part of an amount paid as a permit fee shall be made where the operations of the permittee are, for any reason, discontinued during the tenure of an issued permit.

§ 13.41 Recall and amendment of permit during its term.

Except for marine mammal permits (See Part 18), all permits are issued subject to the condition that the Service reserves the right to recall and amend the provisions of a permit for just cause at any time during its term. Such amendments take effect on the date of notification, unless otherwise specified.

§ 13.42 Permits are specific.

The authorizations on the face of a permit which set forth specific times, dates, places, methods of taking, numbers and kinds of wildlife or plants, location of activity, authorize certain circumscribed transactions, or otherwise permit a specifically limited matter, are to be strictly construed and shall not be interpreted to permit similar or related matters outside the scope of strict construction.

§ 13.43 Alteration of permits.

Permits shall not be altered, erased, or mutilated, and any permit which has been altered, erased, or mutilated shall immediately become invalid. Unless specifically permitted on the face thereof, no permit shall be copied, nor shall any copy of a permit issued pursuant to this Subchapter B be displayed, offered for inspection, or otherwise used for any official purpose for which the permit was issued.

§ 13.44 Display of permit.

Any permit issued under this part shall be displayed for inspection upon request to the Director or his agent, or to any other person relying upon its existence.

§ 13.45 Filing of reports.

Permittees-may be required to file reports of the activities conducted under the permit. Any such reports shall be filed not later than March 31 for the preceding calendar year ending December 31, or any portion thereof, during which a permit was in force, unless the regulations of this Subchapter B or the provisions of the permit set forth other reporting requirements.

§ 13.46 Maintenance of records.

From the date of issuance of the permit, the permittee shall maintain complete and accurate records of any possession, transportation, taking. sale, purchase, barter, exportation, or importation of plants obtained from the wild (excluding seeds) or wildlife pursuant to such permit. Such records shall be kept current and shall include names and addresses of persons with whom any plant obtained from the wild (excluding seeds) or wildlife has been purchased, sold, bartered, or otherwise transferred, and the date of such transaction, and such other information as may be required or appropriate. Such records, unless otherwise specified, shall be entered in books, legibly written in the English language. Such records shall be retained for 5 years from the date of issuance of the permit.

§ 13.47 Inspection requirement.

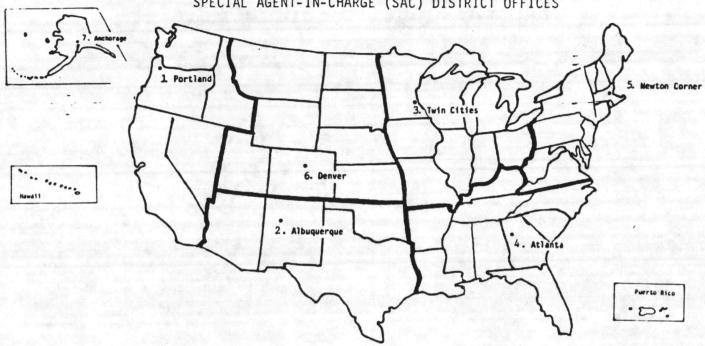
Any person holding a permit under this Subchapter B shall allow the Director's agent to enter his premises at any reasonable hour to inspect any wildlife or plant held or to inspect, audit, or copy any permits, books, or records required to be kept by regulations of this Subchapter B.

§ 13.51 Penalties for violation of a permit, notice; demonstration of compliance.

- (a) Any violation of the applicable provisions of this subchapter, or of the statute under which the permit was issued, or a condition of the permit, may subject the permittee to the following penalties:
- (1) The penalty provided in the statute under which the permit was issued:
- (2) Temporary suspension of the permit for a specified period; and
- (3) Revocation of the permit. When revoked, permits must be surrendered to the Director on demand.
- (b) Except in cases of willfullness or those in which the public health safety or interest requires, and prior to any suspension or revocation of a permit, the permittee shall be given:
- (1) Notice by the Service in writing of the facts or conduct which may warrant the suspension or revocation;
- (2) Opportunity to demonstrate or achieve compliance with all permit requirements.

February 1985

UNITED STATES FISH AND WILDLIFE SERVICE
DIVISION OF LAW ENFORCEMENT
SPECIAL AGENT-IN-CHARGE (SAC) DISTRICT OFFICES



1. California, Hawaii, Idaho, Nevada, Oregon, Washington: 847 N.E. 19th Street Suite 225 Portland, OR 97232 503/231-6125

2. Arizona, New Mexico, Oklahoma, Texas: P.O. Box 329 Albuquerque, NM 87103 505/766-2091

3. Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, Wisconsin: P.O. Box 45
Twin Cities, MN 55111
612/725-3530

4. Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, Puerto Rico, South Carolina, Tennessee:
P.O. Box 4839
Atlanta, GA 30302
404/221-5872

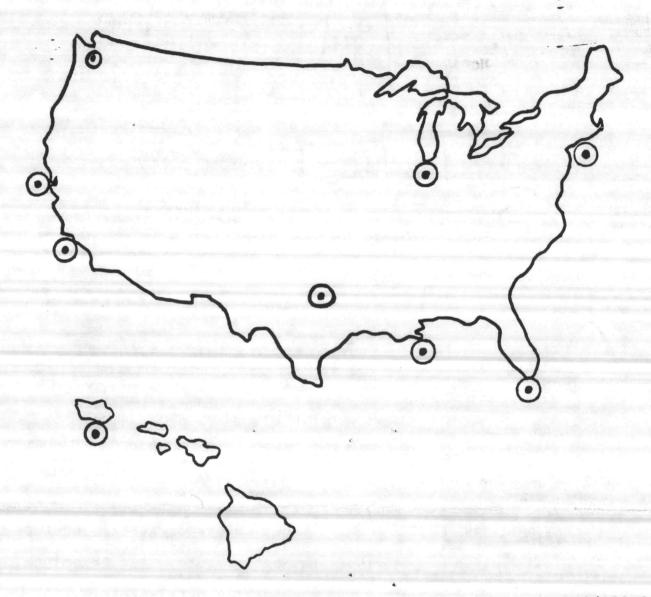
5. Connecticut, District of Columbia, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, West Virginia:
P.O. Box 129 New Town Branch Boston, MA 02258
617/965-2298

6. Colorado, Kansas, Montana Nebraska, North Dakota, South Dakota, Utah, Wyoming: P.O. Box 25486 Denver Federal Center Denver, CO 80225 303/236-7540

7. Alaska P.O. Box 4-2597 Anchorage, AK 99509 907/786-3311

2

U.S. Fish and Wildlife Service Designated Ports (50 CFR 14.12)



312/298-3250 New Orleans: 504/255-6575 Chicago: 718/917-1767 New York: 817/334-5205 Dallas/Fort Worth: 415/344-5900 808/546-5602 San Francisco: Honolulu: 206/442-5543 213/436-1183 Seattle: Los Angeles: 305/350-1767 Miami:

29 March 1985

Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune, North Carolina Assistant Chief of Staff, Training and Operations, Marine Corps Base, Camp Lejeune, North Carolina

AERIAL SURVEYS FOR SEA TURTLES

Encl: (1) Training Area Request

- 1. Informal contractual arrangements are in process for conducting aerial surveys for endangered sea turtles in the Onslow Beach area. These surveys are planned for the purpose of monitoring nesting activities along the beach and in offshore waters. Each flight will begin at New River Inlet, thence north over the beach to Bogue Inlet, thence east to the buoy markers just outside Bogue Inlet, thence south over the water direct to the buoy marker just outside New River Inlet where the survey will be completed.
- 2. The pilot must be able to maintain radio contact with Base Range Control by using call sign "Blackburn" on radio frequency 119.5. The pilot must check in and out with Base Range Control for clearance into and from R5036E air space. Each flight clearance must be conducted on the dates selected between 0630 and 0800 hours only. The contractor will visit the Base prior to the first flight for a meeting with Natural Resources and Environmental Affairs Division personnel and the Range Control Office for flight coordination.
- 3. Aerial survey dates for 1985 are as follows:

May 24, 29 and 31

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

July 3, 5, 10, 12, 17, 19, 23, 26 and 31

August 2, 7, 9, 14, 16, 21, 23, 28 and 30

4. It is requested that the subject dates be scheduled for conducting the flights during the listed time frames. The enclosure contains a training area request schedule for the aerial survey. For further information concerning the flights, please contact Mr. J. I. Wooten, Director, NREAD at 5003.

B. W. ELSTON

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Director, Natural Resources and Environmental Affairs Division, Marine Corps Base, Camp Lejeune From:

Assistant Chief of Staff, Training and Operations, Marine Corps Base, Camp Lejeune

To: Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune Via:

LINE NO.	AREA/RANGE/GP/OP	DATE	TIME	FIRING TIME	TYPE WEAPON	IMPACT AREA	UNIT	PURPOSE
1.	Onslow Beach (N-1 Impact Area	May 24, 29 and 3	0600-0800	N/A	N/A	N-1	NREAD	Conducting aerial surveys for Sea
2.	Browns Island Bombing and Target	June 5,7	9.					Turtles through informal con-
3.	Area BT-3, E-1 Range)	12, 14, 21, 26 and 28	,					tractual prod- ures at Onsl
4.	3,	July 3,	5,					Beach.
5.		10, 12, 17, 19,						
6.		26 and 3	1					
7.		August 2 7, 9, 14 16, 21, 28 and 3	,					
8		28 and 3	0					
9.						•		
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11.								
12.								8

A. THIS TAR R	REQUIRES COOL	RDINATION OF	AIR SPAC	E. YES	Χ -	NO

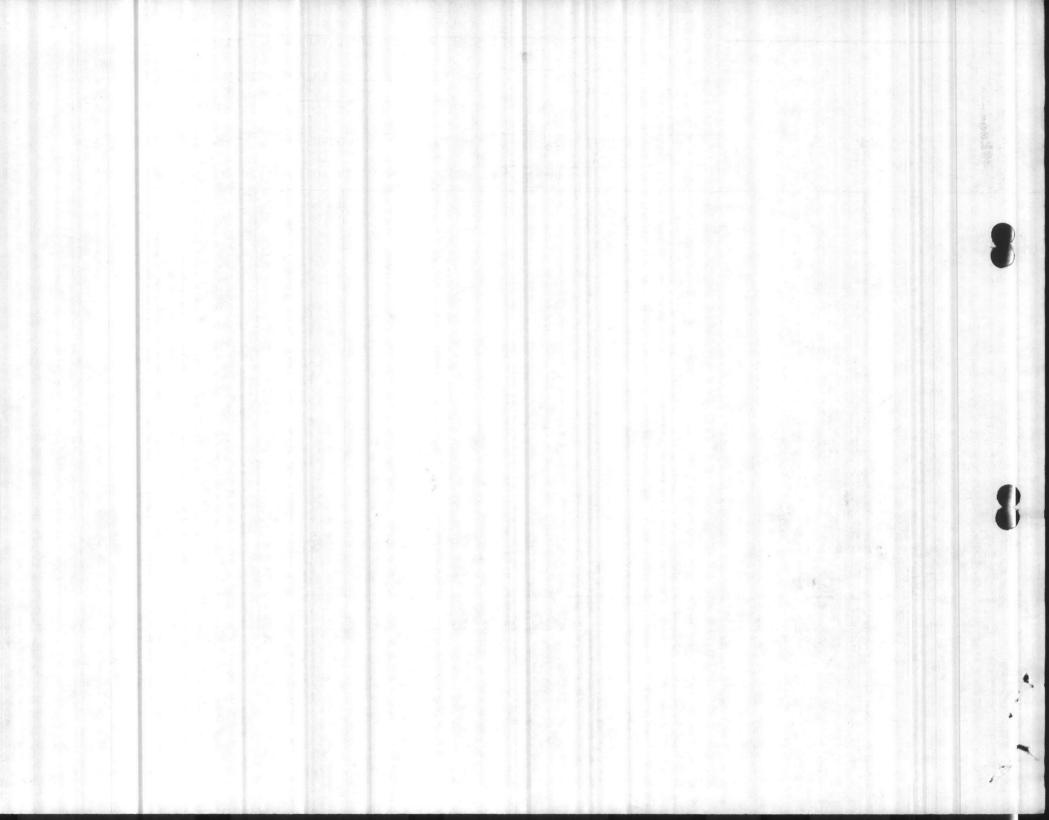
HAS AN LZ BEEN RESERVED? YES N/A NO

THIS TAR REQUIRES COORDINATION WITH OTHER UNITS. YES

WHIT COORDINATION WITH Coordination between NREAD, Range Control

Officer and Contractor before flights are initiated. * DEHOTES ALTERNATES.

B. THE OF ACTIVITY. CAS N/A HELO N/A PARA OPS N/A INDIRECT FIRE N/A



From: Assistant Chief of Staff, Facilities, Marine Corps Base,

Camp Lejeune

To:

Assistant Chief of Staff, Training and Operations, Marine

Corps Base, Camp Lejeune

Subj: AERIAL SURVEYS FOR SEA TURTLES

Encl: (1) Training Area Request

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4. It is requested that the subject dates be scheduled for conducting the flights during the listed time frames. The enclosure contains a training area request schedule for the aerial survey. For further information concerning the flights, please contact Mr. J. I. Wooten, Director, NREAD at 5003.

Writer: C. D. Peterson, NREAD 5003

Typist: J. Cross, 19Mar85

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 From: Director, Natural Resources and Environmental Affairs Division, Marine Corps Base, Camp Lejeune

To: Assistant Chief of Staff, Training and Operations, Marine Corps Base, Camp Lejeune

Via: Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune

LINE NO.	AREA/RANGE/GP/OP	DATE	TIME	FIRING TIME	TYPE WEAPON	IMPACT AREA	UNIT	PURPOSE
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4.		July 3,						Beach.
5.		10, 12, 17, 19, 26 and 3				-13 .5-		
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7.		August 2 7, 9, 14 16, 21,	23,					
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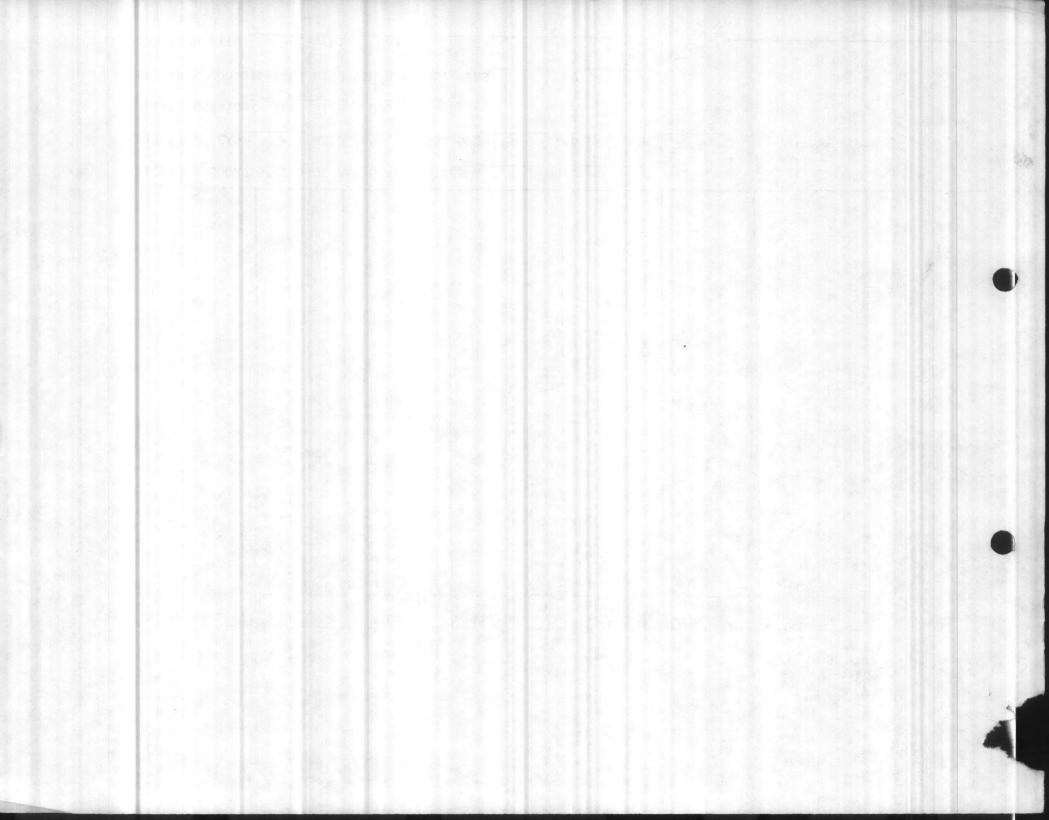
C. HAS AN LZ BEEN RESERVED? YES N/A NO

D. THIS TAR REQUIRES COORDINATION WITH OTHER UNITS. YES X NO

E. UHIT COORDINATION WITH Coordination between NREAD, Range Control

* DEGOTES ALTERNATES. Officer and Contractor before flights are initiated.

B. THE OF ACTIVITY. CAS N/A HELO N/A PARA OPS N/A INDIRECT FIRE N/A





DEPARTMENT OF THE INTERIOR U.S. FISH AND WILDLIFE SERVICE

FEDERAL FISH AND WILDLIFE PERMIT

1. PERMITTEE

MARINE CORPS BASE

CAMP LEJEUNE

NC 28542

3-201 (2/76)

2. AUTHORITY-STATUTES

16 USC 1539 (a)

REGULATIONS (Attached)

50 CFR 17.22

3. NUMBER

PRT-689394

5. MAY COPY 4 RENEWABLE XK YES XX YES □ NO O NO 6. EFFECTIVE 7. EXPIRES

3/23/85

3/31/87

AE AND TITLE OF PRINCIPAL OFFICER (If #1 is a business)

CRECTOR

HALAN I. WOOTEN

9. TYPE OF PERMIT

ENDANGERED SPECIES

ATION WHERE AUTHORIZED ACTIVITY MAY BE CONDUCTED

CAMP LEJEUN

NOITIONS AND AUTHORIZATIONS:

GENERAL CONDITIONS SET OUT IN SUBPART D'OF SO CFR'S, AND SPECIFIC CONDITIONS CONTAINED IN FEDERAL REGULATIONS CITED IN BLOCK #2 ABOVE, ARE HEREBY MADE A PART OF THIS PERMIT. ALL ACTIVITIES AUTHORIZED HEREIN MUST BE CARRIED OUT IN ACCORD WITH AND FOR THE PURPOSES DESCRIBED IN THE APPLICATION SUBMITTED. CONTINUED VALIDITY, OR MENEWAL OF THIS PERMIT IS SUBJECT TO COMPLETE AND TIMELY COMPLIANCE WITH ALL APPLICABLE CONDITIONS, INCLUDING THE FILING OF ALL REQUIRED INFORMATION AND REPORTS.

VALID FOR USE BY PERMITTEE NAMED ABOVE

- Acceptance of this permit serves as evidence permittee understands and agrees to abide by the Conditions for Marine Mammals and Native Endanger Threatened Species" (copy attached) TO TAKE GREEN (Chelonia mydas) AND AUTHORIZED LOGGERHEAD (Maretra caretta) SEA QUETLES TO NESTS FOR THE PURPOSE OF ADULTS AND TO RELOCATE
- NHANCEMENT OF SURVIVAL, PROVIDED: VESTS THREATENED BY EROSION, TIDES RESEARCH AND
- PREDATION OR MALITARY ACTIVITIES ARE MOVED NESTS MAY BE
- (NOT LABORATORIES)
- ATCHING SUCCESS RELOCATED NESTS 3. RECORDED,

WITHIN 24 HOURS OF 4. THE PERMITTEE MAY MOVE NESTS

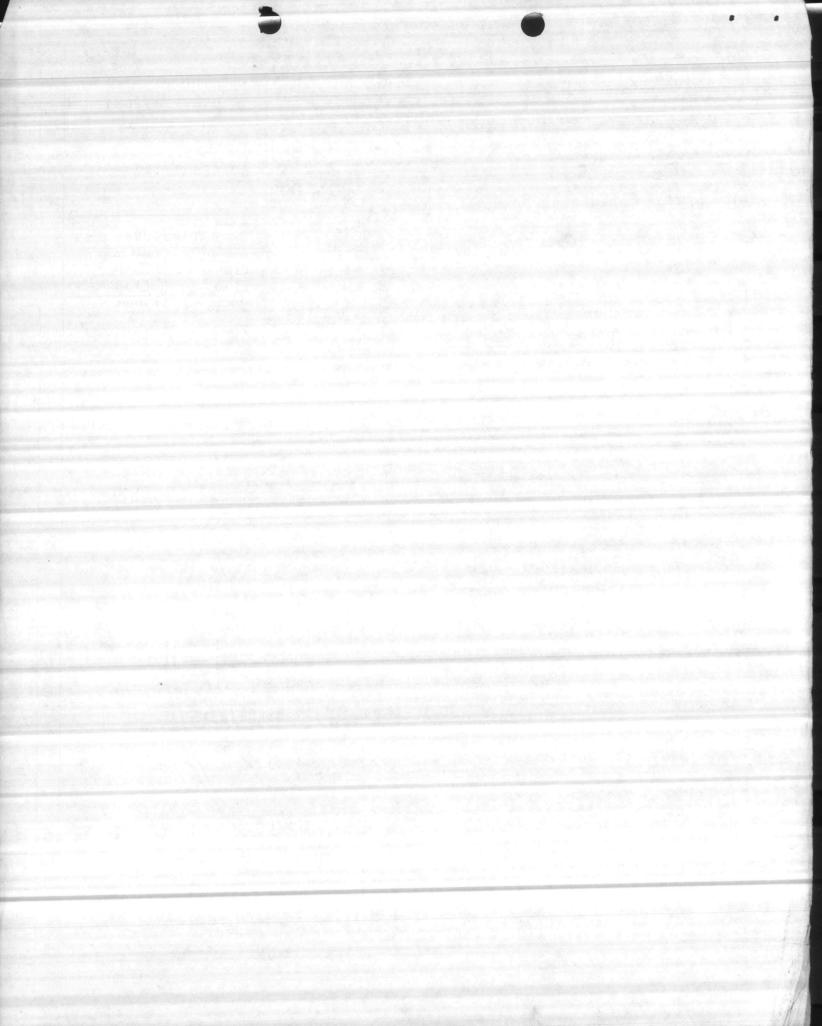
ORTING REQUIREMENTS

1/31/86 IRST ANNUAL REPORT DUE OMPLETE REPORT OF ACTIVITIES MUST BE SUBMITTED TO FWPO, BOX 3654

RLINGTON, VA 22203, 1/31 OF EACH YEAR PERMIT IS IN EFFECT. TITLE

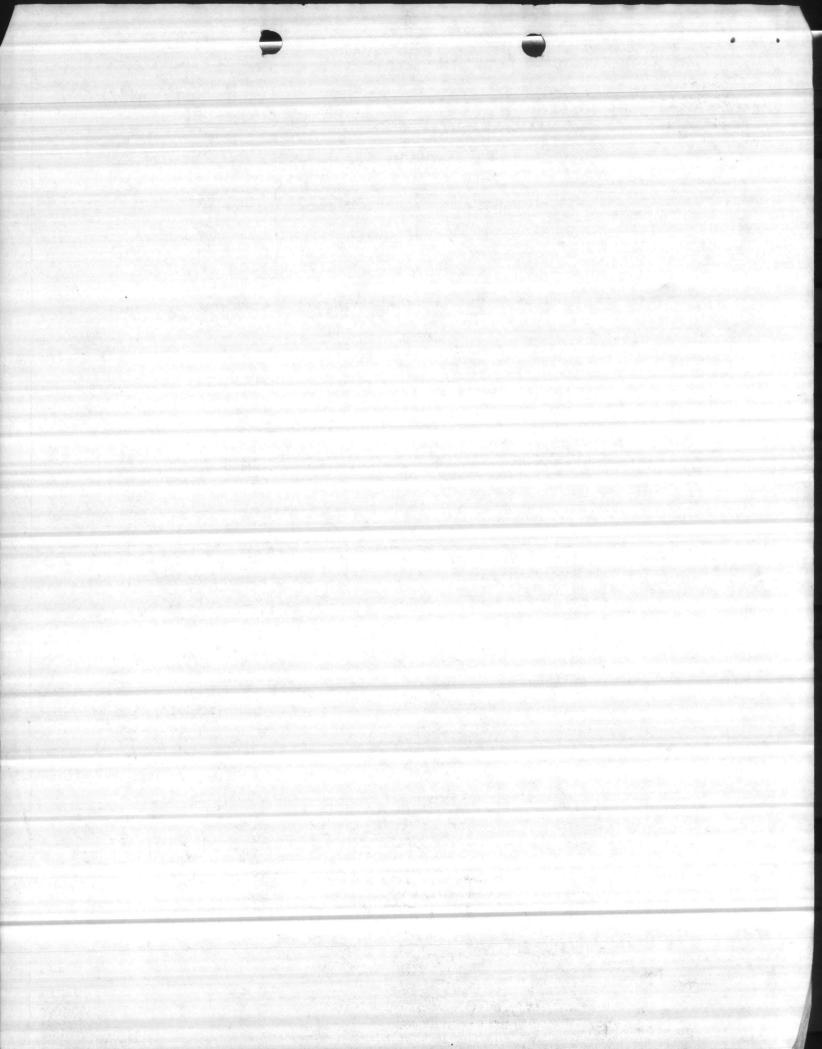
CHIEF, BRANCH OF PERMITS-FWPO

3/23/85



GG DEPOSITION OR AFTER TWO WEEKS FOLLOWING DEPOSITION (PREFERABLY EGGS SHOULD BE MOVED WITHIN 12 HOURS OF DEPOSITION), AND

- 5. NO EGGS BE REMOVED OR RELOCATED OUTSIDE THE CAMP LEJEUNE GENERAL BEACH VICINITY.
- E. NESTING FEMALES SHOULD BE DOUBLE-TAGGED BY PLACING ONE TAG ON EACH FRONT FLIPPER.
- F. THE ATLANTA, GA USFWS ENDANGERED SPECIES OFFICE (404/831-4671) MUST BE NOTIFIED BEFORE COMMENCING THE PERMITTED ACTIVITY.





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United States Department of the Interior

FISH AND WILDLIFE SERVICE · WASHINGTON, D.C. 20240

Implemented May 1982

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conformance with the provisions of

this part and the part under which the

permittee intends to continue the ac-

13.25 Permits not transferable agents

days after such change. This section

does not authorize the change of loca-

permitted activity a not required to

acted upon.

GENERAL PERMIT CONDITIONS

- millier begins conducting the permitshall be flied not lat]. All sections of Title 50 Code of Federal Regulations Part 13 provided on the reverse of this page are conditions of the permit. subject to the same issuance criter are original applications, as provided
- 2. All applicable foreign, state, local or other federal laws, including those requiring permits, must be observed. Solito animal to a bota side wester at those and a side wester at those and a side wester at those and a side wester at the s Where the permit is renewable and a
- change in an issued permit, other than . # 13.16 Mainten 3. Living specimens must be handled and shipped so as to minimize risk of the bound of the same state injury, damage to health or cruel treatment. of stion, he shall, unless otherwise no-
- titled in writing by the Director, file a 4. Container in which authorized wildlife is shipped must be plainly marked with name and address of shipper and consignee and an accurate description of the contents including common and scientific name and number of each within, OR with a symbol authorized by a Symbol Marking permit. of all assessed He le
- 5. Permittee must carry a copy of permit while conducting authorized activities. valid renewable permit, who has com-
- antitee discondinues been, beandones and 6. Permit number must be legibly printed on all documents and advertisements involving activities conducted under permit. ties as were authorized by his expired permit until his renewal application is

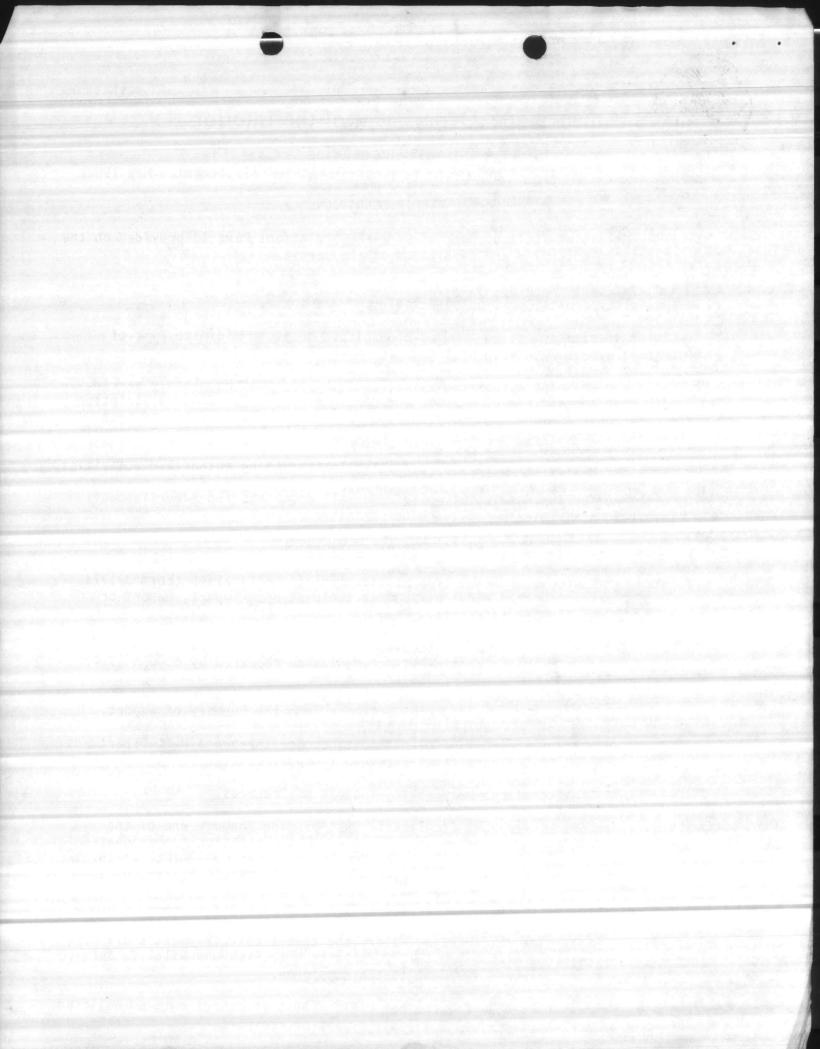
id permit shall be deemed youd a propriete. Such reco For permits authorizing import, export on reexport:

- 7. This permit and a completed copy of the Wildlife Declaration (Form 3-177) must be presented to a USFWS officer at the port upon import, export on an amount uses in connection with a mistness of reexport of wildlife shipments. commercial enterprise and in the
- event of any lease, sale, or transfer of 8. Import, export or reexport of pre-Act wildlife under the U.S. Endangered Species Act must be accompanied by documentation required by 50 CFR 17.4. subject to the condition that the Serv
- certain hmited right, of succession are 9. Import of species listed in Appendix I; II or III of CITES must be at an appendix accompanied by proper foreign documentation from the country of export.
- 10. Import, export or reexport of plants must be made through a U.S. Department of Agriculture (USDA) port (list attached if applicable). Permittee shall allow an authorized USDA agent to enter his premises at any reasonable hour to inspect any specimens held, or to inspect any records. dates, places, methods of taking, num
- 11. Import, export or reexport of wildlife must be made through one of the following designated ports on as authorized by an Exception to Designated Port permit: New York, NY; Miami, FL; New Orleans, LA; Dallas/Ft. Worth, TX; Los Angeles and San Francisco, CA: HonoTulu, Hl; Seattle, WA; and Chicago, IL.

similar or related matters outside

Exception to Designated Port permittees: 10 94032

- a. Permittee is liable for all costs incurred by USFWS in examining shipments including per diem, salary and travel cost. Payment shall be by certified check or money order, payable to U.S. Fish and Wildlife Service A permittee continuing to conduct a balance of shipmentato the consignee of the continuity a not required to Unless specifically permitted on the continuity of the continuity
- b. The nearest USFWS Law Enforcement Office (list attached) must be notified at least 72 hours prior to import wexport or reexport. Jones at seemand a doing which a number of conduction of matriage be displayed offered for inspection or (2) especific change of name by reason of matriage be displayed for any official outcome schiere complied





United States Department of the Interior

FISH AND WILDLIFE SERVICE WASHINGTON, D.C. 20240

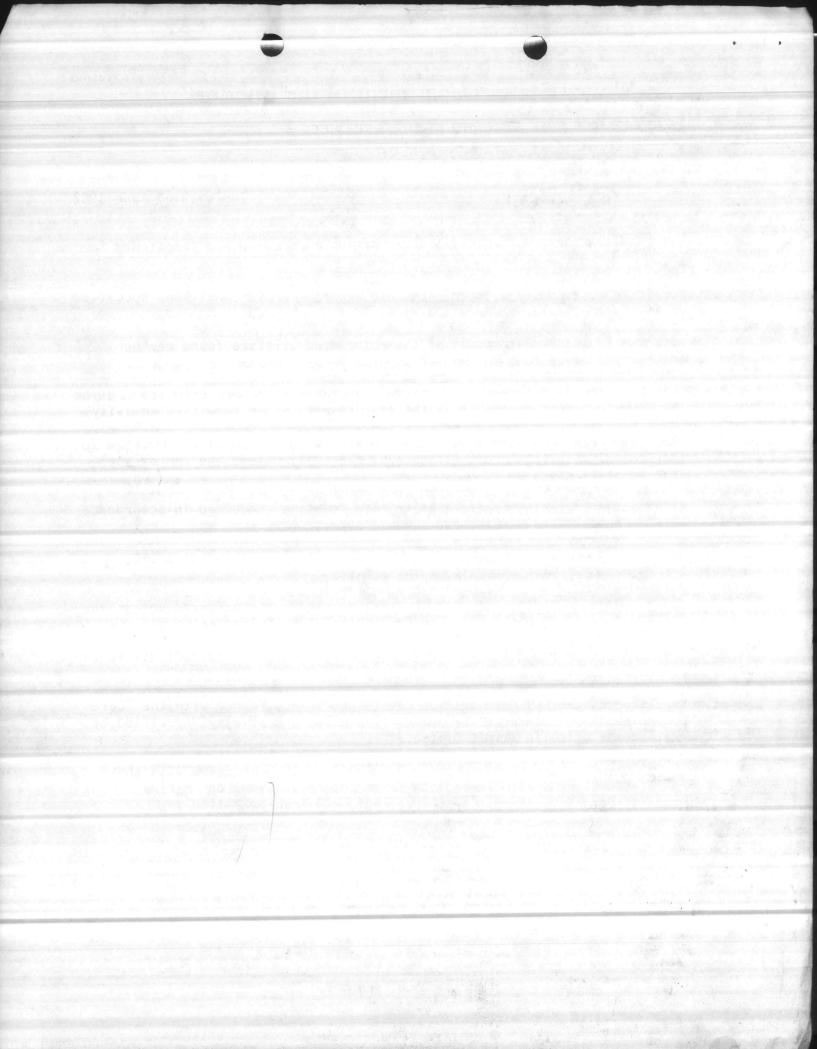
Implemented June 1982

Special Conditions for Marine Mammals and Native Endangered and Threatened Species Permits

- Permittee must comply with the attached General Permit Conditions specified by the Federal Wildlife Permit Office.
- Any dead or injured specimens of the authorized wildlife found may be salvaged or cared for.
- Unless otherwise authorized on the face of the permit, the wildlife must be immediately released at or near the capture site after permitted activity.
- 4. Unexpected death or escape of the authorized wildlife shall be reported to the Federal Wildlife Permit Office (703/235-1903) before the end of the next business day.
- 5. BIRD banding, marking, radio tagging, etc. must be conducted in accordance with a Federal Bird Marking and Salvage permit.

THE FOLLOWING CONDITIONS APPLY UNTIL AUTHORIZED DISPOSAL OF THE WILDLIFE, REGARDLESS OF THE EXPIRATION DATE OF THE PERMIT:

- 6. The authorized wildlife may NOT be sold, donated or transferred unless the receiver has first been issued authorization by the Director.
- 7. Any dead authorized wildlife shall be preserved and held for scientific purposes whenever practical.
- 8. Any live SEA TURTLES held must be maintained in accordance with the "Care and Maintenance Standards for Sea Turtles Held in Captivity" specified by the Federal Wildlife Permit Office.
- 9. MARINE MAMMALS must be cared for and maintained in accordance with the Animal and Plant Health Inspection Service's regulations on "Marine Mammals; Humane Handling, Care, Treatment, and Transportation".



13.23 Amendment of applications or per-

Where circumstances have changed to that an applicant or permittee desires to have any term or condition of his application or permit modified, he must submit in writing full justification and supporting information in conformance with the provisions of this part and the part under which the permit has been issued or requested. Such applications for modification are subject to the same issuance criteria as are original applications, as provided in § 13.21.

§ 13.24 Renewal of permit.

Where the permit is renewable and a permittee intends to continue the activity described in the permit during any portion of the year ensuing its expiration, he shall, unless otherwise notified in writing by the Director, file a request for permit renewal, together with a certified statement that the information in his original application is still currently correct, or a statement of all changes in the original application, accompanied by any required fee at least 30 days prior to the expiration of his permit. Any person holding a valid renewable permit, who has complied with the foregoing provision of this section, may continue such activities as were authorized by his expired permit until his renewal application is acted upon.

§ 13.25 Permits not transferable; agents.

(a) Permits issued under this part are not transferable or assignable. Some permits authorize certain activities in connection with a business or commercial enterprise and in the event of any lease, sale, or transfer of such business entity, the successor must obtain a permit prior to continuing the permitted activity. However, certain limited rights of succession are provided in § 13.26.

(b) Except as otherwise stated on the face of a permit, any person who is under the direct control of the permittee, or who is employed by or under contract to the permittee for the purposes authorized by the permit, may carry out the activity authorized by

the permit.

§ 13.27 Change of mailing address.

During the term of his permit, a permitter may change his mailing address without procuring a new permit. However, in every case notification of the new mailing address must be forwarded to the issuing official within 30 days after such change. This section does not authorize the change of location of the permitted activity for which an amendment must be obtained in accordance with § 13.23.

\$ 13.28 Change in name.

A permittee continuing to conduct a permitted activity is not required to obtain a new permit by reason of a mere change in trade name under which a business is conducted or a change of name by reason of marriage

Excerpts from CODE OF FEDERAL REGULATIONS (50 CFR 13)

the issuing official for endorsement within 30 days from the date the permittee begins conducting the permitted activity under the new name.

§ 13.29 Official endorsement of changes required.

Any change in a permit must be made by endorsement of the Director or issuing officer. Any modification or change in an issued permit, other than those specifically provided for in this subpart, may be granted or denied in the discretion of the Director.

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A permittee who furnishes his permit to the issuing official for endorsement or correction in compliance with the provisions of this subpart may continue his operations pending its return.

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When any permittee discontinues his activity, he shall, within 30 days thereof, mail his permit and a request for cancellation to the issuing officer, and said permit shall be deemed void upon receipt. No refund of any part of an amount paid as a permit fee shall be made where the operations of the permittee are, for any reason, discontinued during the tenure of an issued permit.

6 3.41 Recall and amendment of permit during its term.

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The authorizations on the face of a permit which set forth specific times, dates, places, methods of taking, numbers and kinds of wildlife or plants, location of activity, authorize certain circumscribed transactions, or otherwise permit a specifically limited matter, are to be strictly construed and shall not be interpreted to permit similar or related matters outside the scope of strict construction.

§ 13.43 Alteration of permits.

Permits shall not be altered, erased, or mutilated, and any permit which has been altered, erased, or mutilated shall immediately become invalid. Unless specifically permitted on the face thereof, no permit shall be copied, nor shall any copy of a permit issued pursuant to this Subchapter B be displayed, offered for inspection, or otherwise used for any official purpose

§ 13.44 Display of permit.

Any permit issued under this part shall be displayed for inspection upon request to the Director or his agent, or to any other person relying upon its existence.

§ 13.45 Filing of reports.

Permittees-may be required to file reports of the activities conducted under the permit. Any such reports shall be filed not later than March 31 for the preceding calendar year ending December 31, or any portion thereof, during which a permit was in force, unless the regulations of this Subchapter B or the provisions of the permit set forth other reporting requirements.

§ 13.46 Maintenance of records.

From the date of issuance of the permit, the permittee shall maintain complete and accurate records of any taking, possession, transportation, sale, purchase, barter, exportation, or importation of plants obtained from the wild (excluding seeds) or wildlife pursuant to such permit. Such records shall be kept current and shall include names and addresses of persons with whom any plant obtained from the wild (excluding seeds) or wildlife has been purchased, sold, bartered, or otherwise transferred, and the date of such transaction, and such other information as may be required or appropriate. Such records, unless otherwise specified, shall be entered in books, legibly written in the English language. Such records shall be retained for 5 years from the date of issuance of the permit.

§ 13.47 Inspection requirement.

Any person holding a permit under this Subchapter B shall allow the Director's agent to enter his premises at any reasonable hour to inspect any wildlife or plant held or to inspect, audit, or copy any permits, books, or records required to be kept by regulations of this Subchapter B.

§ 13.51 Penalties for violation of a permit. notice; demonstration of compliance.

- (a) Any violation of the applicable provisions of this subchapter, or of the statute under which the permit was issued, or a condition of the permit, may subject the permittee to the following penalties:
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(2) Temporary suspension of the permit for a specified period; and

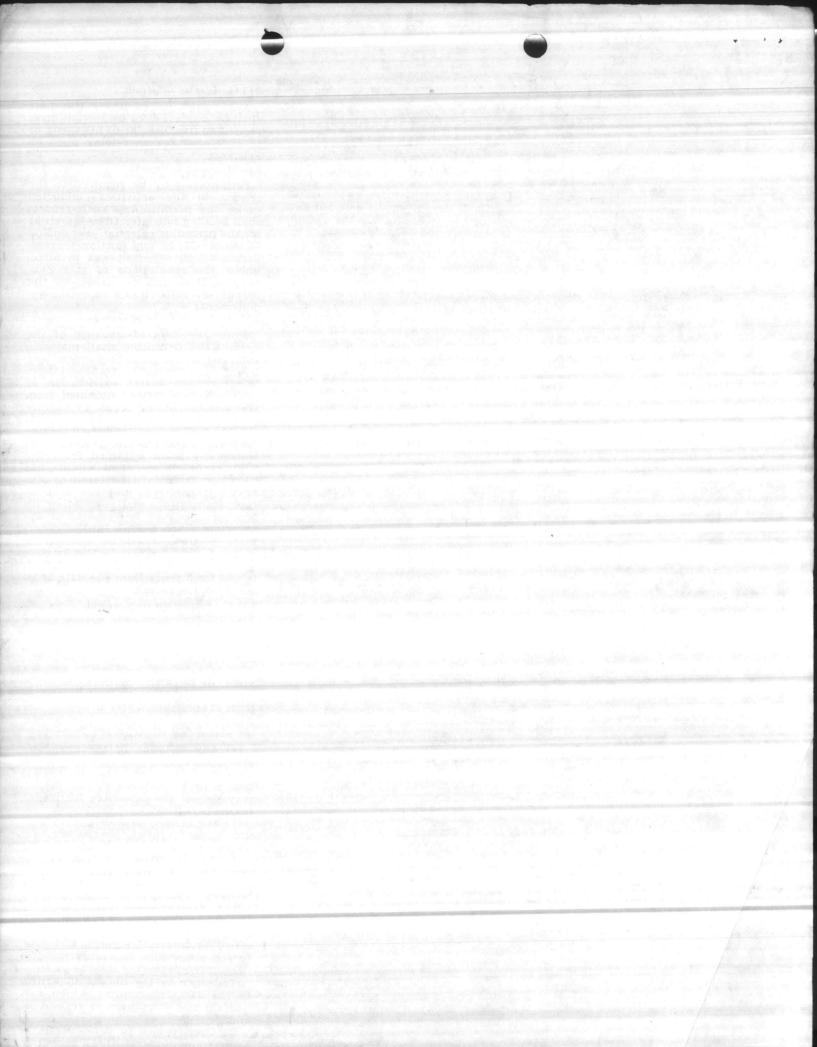
(3) Revocation of the permit. When revoked, permits must be surrendered

to the Director on demand.

(b) Except in cases of willfullness or those in which the public health safety or interest requires, and prior to any suspension or revocation of a permit, the permittee shall be given:

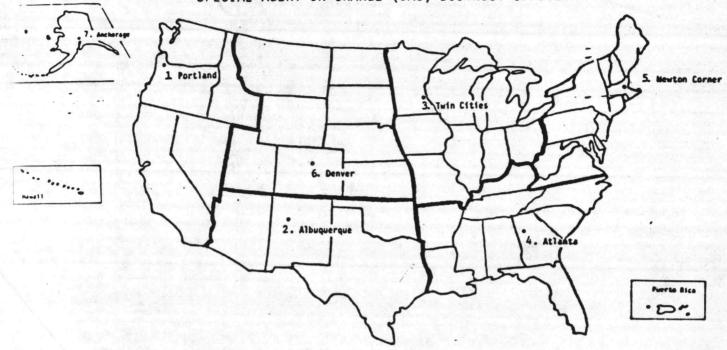
(1) Notice by the Service in writing of the facts or conduct which may warrant the suspension or revocation; and

(2) Opportunity to demonstrate or achieve compliance with all permit re-



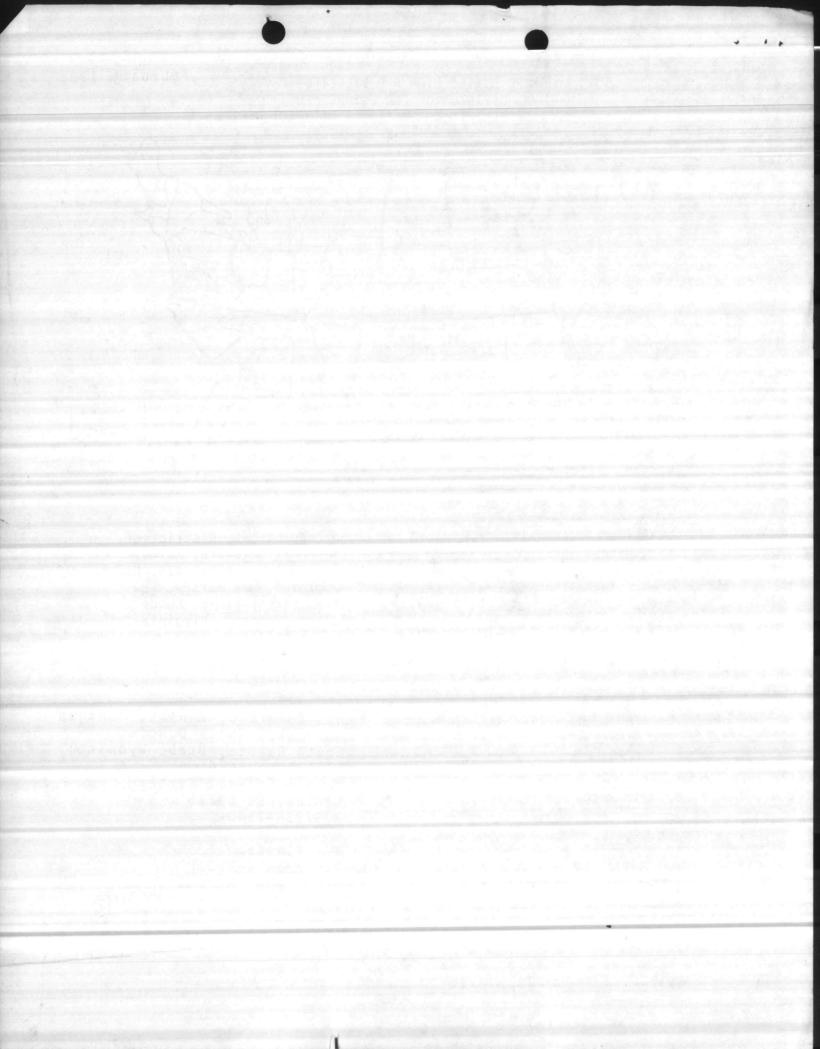
February 1985

UNITED STATES FISH AND WILDLIFE SERVICE DIVISION OF LAW ENFORCEMENT SPECIAL AGENT-IN-CHARGE (SAC) DISTRICT OFFICES



- 1. California, Hawaii, Idaho, Nevada, Oregon, Washington:
 847 N.E. 19th Street
 Suite 225
 Portland, OR 97232
 503/231-6125
- 2. Arizona, New Mexico, Oklahoma, Texas: P.O. Box 329 Albuquerque, NM 87103 505/766-2091
- 3. Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, Wisconsin: P.O. Box 45
 Twin Cities, MN 55111
 612/725-3530
- 4. Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, Puerto Rico, South Carolina, Tennessee:
 P.O. Box 4839
 Atlanta, GA 30302
 404/221-5872

- 5. Connecticut, District of Columbia, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, West Virginia:
 P.O. Box 129 New Town Branch Boston, MA 02258
 617/965-2298
- 6. Colorado, Kansas, Montana Nebraska, North Dakota, South Dakota, Utah, Wyoming: P.O. Box 25486 Denver Federal Center Denver, CO 80225 303/236-7540
- 7. Alaska P.O. Box 4-2597 Anchorage, AK 99509 907/786-3311



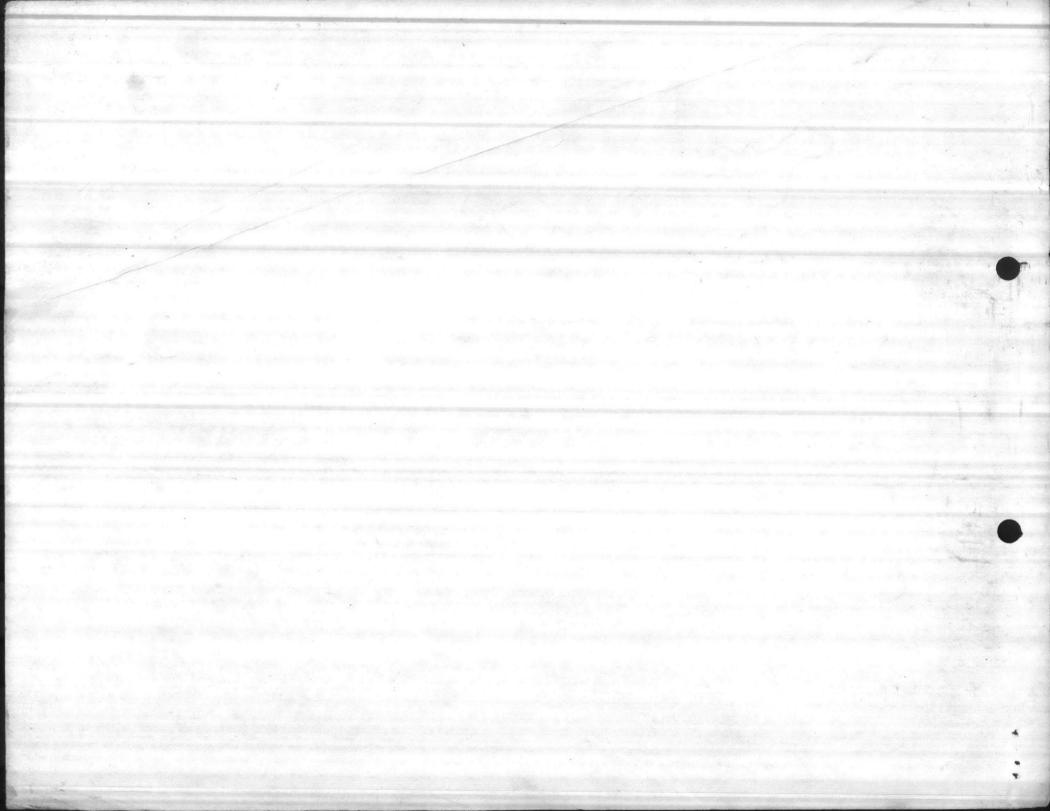
U.S. Fish and Wildlife Service Designated Ports (50 CFR 14.12)

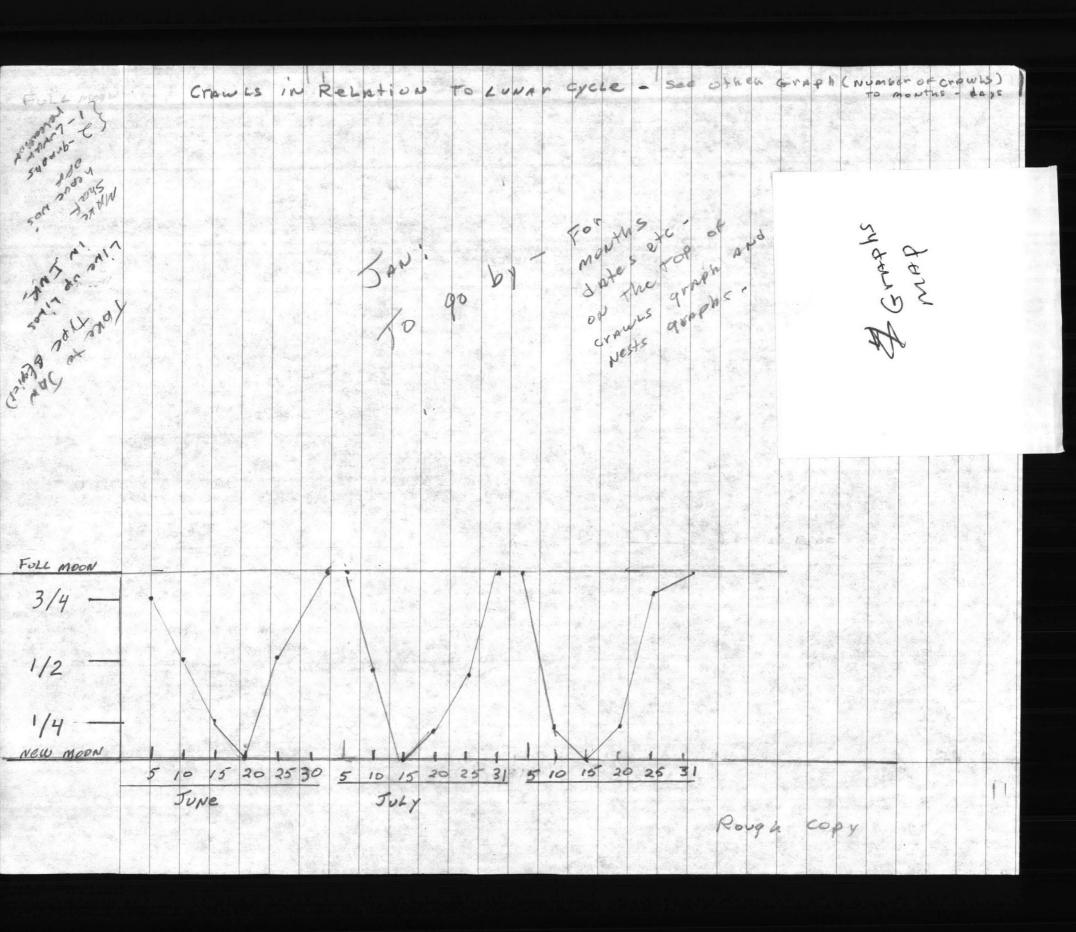


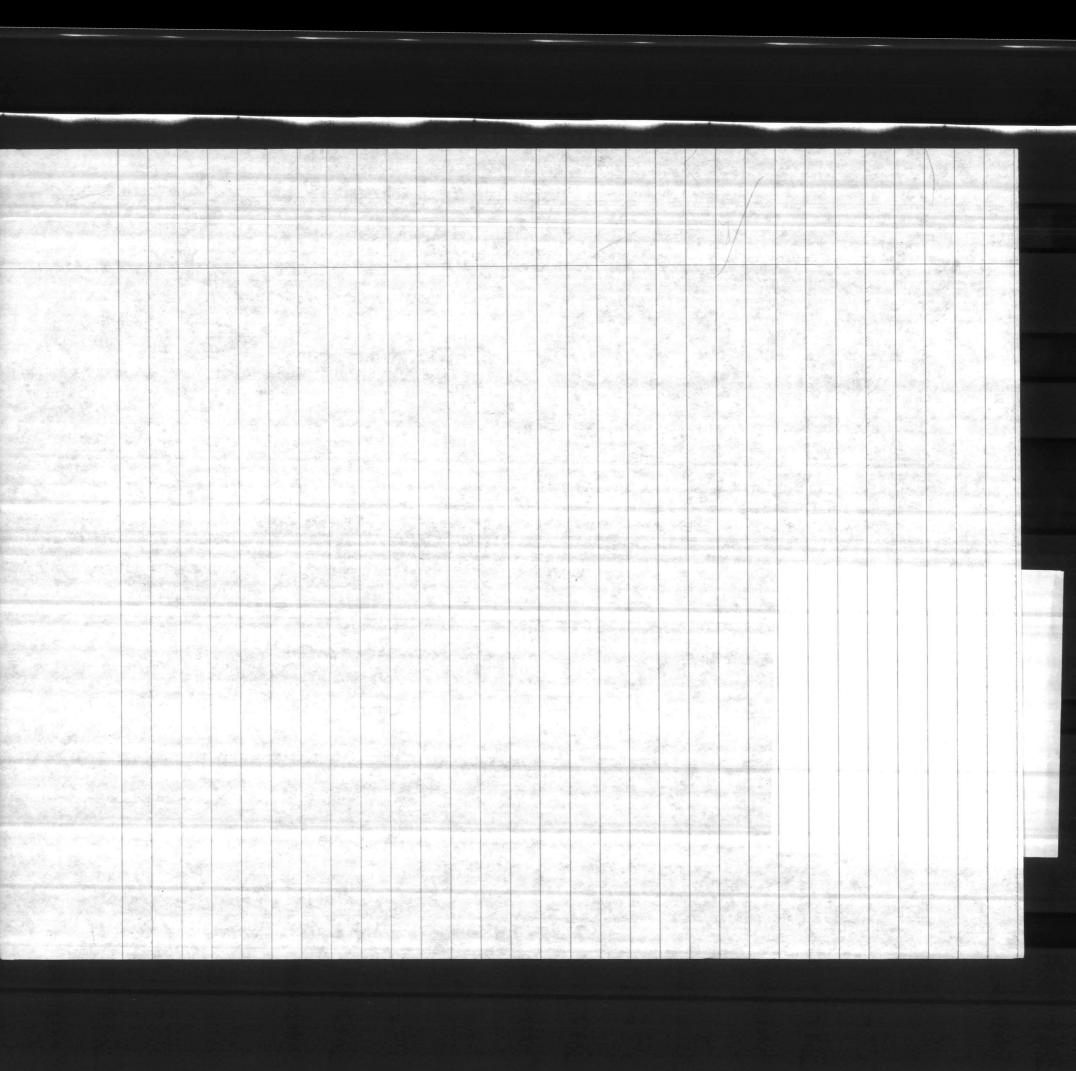
504/255-6575 312/298-3250 New Orleans: Chicago: 718/917-1767 317/334-5205 Dallas/Fort Worth: New York: 415/344-5900 803/546-5602 San Francisco: Honolulu:

213/436-1183 Seattle: Los Angeles:

2.3 Miles From Risely North Town 305/350-1767 Miami:







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