1982

Sea

Turtle Report

1982

INTRODUCTION

The Sea Turtle Inventory for ~~1981~~ 1982 is a continuation of past efforts by Natural Resources and Environmental Affairs ~~Branch~~ Div, ~~Base Maintenance Division,~~ asst C/S, 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 and occasionally hatchling sea turtles, collecting nesting data, determining hatchling success and aerial surveys.

Management personnel began operating under a Federal Fish and Wildlife Permit during 1981, issued for working with threatened loggerhead and green turtles. The permit authorizes the tagging and measurement of adults and the relocation of nests threatened by erosion, tides, extreme predation or military activities. Nests may be moved only within 36 hours of egg laying to a safe beach location and not to a laboratory. Relocated nests are required to be monitored and hatchling sucess documented. ~~Nineteen~~ Three nests were either destroyed or their locations disrupted due to beach erosion caused by ~~hurricane Dennis~~ high tides during the ~~1981~~ 1982 nesting season.

The results of the aforementioned programs are as follows:

(1) Nest protection from predation 100%

(2) Tagging of adults - number of turtles tagged - ~~48~~ 29

Tag return data may be reviewed in Table I, page ~~4-5~~

(3) Nesting data - number of nests - ~~85~~ 60

Total number of eggs - ~~10,341~~ 7,295

Total number of hatchlings - ~~6,568~~ 4,208

Percent hatchling success is ~~61.2.~~ 57.7 Nesting and crawl data is compiled in Tables I II, III and IV and Graphs I, II and III on pages ~~6~~ through ~~20~~. The map on page ~~3~~ indicates locations of turtle activity on Onslow Beach.

(4) Aerial Surveys - aerial survey data may be found in Table V, page ~~21-22~~

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

For copies of this report or other information concerning the Sea Turtle Management program conducted by this agency, contact: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina 28542, Attn: ~~Base Maintenance Officer~~ Asst C/S Facilities Assistant Chief.

29 different turtles tagged

1982

Typed 1/14/84 JC

Table I

Return record of Tagged Turtles

1982 Sea Turtle Inventory

Notes ( )

Date Tagged	Tag No.	return	return	return	return	~~return~~
6-5-82 N	749/775	0145 FC 7-31-82 (1)	2200 N 7-31-82	0115 FC 8-15-81 (1)	2200 N 8-15-82	
" (1)	757/774					
6-6-82 (1)	772/773	6/9/82				
6-7-82 (1)	401/402					
6-8-82 (1)	403/404	6-25-82 (4) 791/792	7-8-82			
~~[illegible]~~	~~[illegible]~~					
6-11-82	405/406					
6-15-82	407/408					
6-16-82	409/411	7-1-82				
6-19-82 (1)	780/781	6-21-82	7-4-82	7-19-82		
6-20-82	782/783	7-6-82	7-20-82 (1)			
" N	784/785	0100 FC 7-4-82 (1)	2215 N 7-4-82	N 7-17-82	N 7-30-82	
6-21-82	786/787	8-1-82 (1)				
6-22-82 (2)	747/748					
6-25-82	788/789					
" (3)	36/772	7-10-82 (1)				
"	793/794	7-10-82	7-21-82 (1)			
"	795/796					
6-30-82	797/798	7-12-82				
7-1-82	799/800					
7-2-82	801/802	8-16-82 (1)				
7-4-82	803/804	7-18-82	7-29-82			
"	805/806					
7-16-82 (1)	807/808					
"	809/810					
7-17-82	811/812					
" (5)	64/817	0115 7-31-82 (1)	2320 7-31-82			

Continued

Continued

Notes (1) Turtle did not nest this date

(2) Return from 1981 ?

(3) Return from 1979

(4) Replaced old tags

(5) Turtle tagged off Cape Cook Out 1981

Put last

Put last

Table II cont'd 1982

Date Tagged	Tag No.	return	return	return	return	return
7-27-82	813/814					
7-28-82	815/816					
8-8-82 ①	818/819					

1982

Typed 12/1/14 JC

Table II

Crawl Information in Relation to Moon and Tidal Cycles and Weather Conditions

Nights handled as a whole not broken at midnight

Date Night of	moon Rise % Illumin	Time of High Tide	Time crawl w/o Nest	Time Crawl w/ Nest	Total Crawls	Weather	Temperature H2O	Temperature Air
5-16-82	0153 - 52	0206	0100		1	—	—	—
5-17-82	0226 - 42	0304	[redacted]	0100, 0200	2	—	—	—
6-2-82	1542 - 81	1702	0100	0100, 0100	3	—	—	—
6-3-82	1630 - 88	1745	1	1	2	—	—	—
6-4-82	1736 - 93	1825 ~~0044~~	2000, 2110	0330	3	—	—	—
6-5-82	1832 - 97	1907 ~~0126~~	2030, 2145 0015		3	Stormy	74	78
6-7-82	2020 - 100	2021 ~~0243~~	2400		1	Fair	73	70
6-8-82	2111 - 98	2059 ~~0320~~	2300	0130	2	Partly Cloudy	74	76
6-9-82	2157 - 95	2136 ~~0358~~	2400, 2400		2	Fair	74	75
6-10-82	2239 - 90	2215 ~~0438~~	2200		1	stormy	73	70
6-11-82	2318 - 84	2256 ~~0517~~	2230	2300	2	stormy	72	71
6-12-82	2353 - 76	2341 ~~0559~~	0500	2000	2	Partly Cloudy	70	74
6-15-82	0130 - 47	0219	0100	2345	2	Clear windy	72	76
6-16-82	0203 - 27	0319	~~233~~	2330	1	Rainy	72	74
6-18-82	0320 - 17	0516	2300, 2300		2	Partly Cloudy	73	75
6-19-82	0407 - 09	1747	2130, 2345 0200, 0200	0115	5	Fair	74	78
6-20-82	0502 - 03	1842	0100, 0100 0100	2330, 0115	5	Fair	74	76
6-21-82	0604 - 00	1936	0110	2130	2	stormy	74	76
6-25-82	0930 - 17	2314		2230 2200, 2200 2200, 2200	5	Partly Cloudy	74	79
6-30-82	1434 - 67	2156		2330	1	Partly Cloudy	75	82
7-1-82	1530 - 76%	1628		2145, 2145 0025	3	Partly Cloudy	75	82
7-2-82	1626 - 84	1715	2230		1	Fair	76	76
7-3-82	1722 - 90	1758	0100, 2200	0115	3	Thunderstorms	76	75
7-4-82	1816 - 95	1840		2130, 2215 2400	3	Partly Cloudy	77	76
7-5-82	1907 - 98	1918	1	1	2	Cloudy	78	78
7-6-82	1955 - 100	1957		2350, 0200	2	Cloudy	78	78
7-8-82	2119 - 97	2111		2130,	1	Fair	80	76
7-9-82	2155 - 93	2148	2330, 0100	0100	3	Partly Cloudy	81	80
7-10-82	2228 - 88	2227		2300	1	Thunderstorms	81	85
7-12-82	2331 - 72	2354		2230	1	Cloudy	81	82
7-13-82	0002 - 62	0048	0200,	0200	2	Partly Cloudy	80	78
7-14-82	0036 - 52	0146	2345		1	Fair	80	79
7-15-82	0113 - 41	0250	0300		1	Partly Cloudy	79	78

Table II 1982

Date Night of	Moon Rise % Illumin	Time of High Tide	Time Crawl w/o nest	Time Crawl w/ nest	Total Crawls	Weather	Temp H_2O	Temp Air
7-16-82	0156 - 30	0354	2210, 0100 0200, 0245 0310, 0200	2330, 0100 0100, 0330	10	Partly Cloudy	80	79
7-18-82	0343 - 11	0557		2200	1	—	—	—
7-19-82	0448 - 05	1828	~~111~~ 1	2230	7	Partly Cloudy	79	76
7-20-82	0558 - 01	1923	2400, 0140		2	Fair	78	69
7-22-82	0818 - 02	2107	1		1	—	—	—
7-24-82	0924 - 14	2249	1		1	—	—	—
7-25-82	1027 - 23	2340	111	0100 1	4	—	—	—
7-27-82	1226 - 42	0126		2330, 0130 0200	3	Fair	81	81
7-28-82	1323 - 52	0223	2400		1	Partly Cloudy	81	75
7-29-82	1420 - 62	0320	2200	2200, 0100	3	Fair	80	80
7-30-82	1516 - 71	0415	0115, 0145		2	Overcast	82	78
7-31-82	1610 - 79	0505	0045	2200, 2320	3	Cloudy	80	80
8-1-82	1703 - 86	0553		011	2	Partly Cloudy	79	80
8-2-82	1752 - 92	1811		1	1	Fair	79	77
8-6-82	2030 - 99	2044		2130	1	—	—	—
8-8-82	2133 - 91	2156	2150		1	Partly Cloudy	80	79
8-9-82	2204 - 84	2238	2315, 2400	2400	2	Partly Cloudy	80	79
8-10-82	2237 - 76	2325		1	1	Fair	80	81
8-11-82	2311 - 66	0018	2245		1	Partly Cloudy	79	81
8-14-82	0128 - 33	0338	0030, 0115		2	Fair	78	79
8-15-82	0228 - 22	0444	0015	2200	2	Fair	78	79

Table III

1982 Typed 12/13/82

Ground Survey Numbers

Night not separated at Midnight

Date	Crawls No Nest	Crawls / Nest	Total Crawls
5-16-82	1	0	1
5-17-82	0	2	2
6-2-82	1	2	3
6-3-82	1	1	2
6-4-82	2	1	3
6-5-82	3	0	3
6-7-82	1	0	1
6-8-82	1	1	1
6-9-82	2	0	2
6-10-82	1	0	1
6-11-82	1	1	2
6-12-82	1	1	2
6-15-82	1	1	2
6-16-82	0	1	1
6-18-82	2	0	2
6-19-82	4	1	5
6-20-82	3	2	5
6-21-82	1	1	2
6-25-82	0	5	5
6-30-82	0	1	1
7-1-82	0	3	3
7-2-82	1	0	1
7-3-82	2	1	3
7-4-82	0	3	3
7-5-82	1	1	2
7-6-82	0	2	2
7-8-82	0	1	1
7-9-82	2	1	3
7-10-82	0	1	1
7-12-82	0	1	1
7-13-82	1	1	2
7-14-82	1	0	1
7-15-82	1	0	1
7-16-82	6	4	10
7-18-82	0	1	1

Table III cont'd 1982

Date	Crawls no nest	Crawls / nest	Total Crawls
7-19-82	6	1	7
7-20-82	2	0	2
7-22-82	1	0	1
7-24-82	1	0	1
7-25-82	3	1	4
7-27-82	0	3	3
7-28-82	1	0	1
7-29-82	1	2	3
7-30-82	2	0	1
7-31-82	1	2	3
8-1-82	0	2	2
8-2-82	0	1	1
8-6-82	0	1	1
8-8-82	1	0	1
8-9-82	1	1	2
8-10-82	0	1	1
8-11-82	1	0	1
8-14-82	2	0	2
8-15-82	1	1	2

Legend on Back

TABLE V

1982

Aerial Survey

	Onslow Beach						Brown's Island						Weather conditions
	NC	OC	NN	ON	NP	OP	NC	OC	NN	ON	NP	OP	
6-14-82			1						8	1			Partly Cloudy
6-17-82			2						9	2	3		Clear
6-21-82			4						2				Partly Cloudy
6-24-82							1		3		1		Partly Cloudy
6-28-82				2			1		15	1	7		Partly Cloudy
7-1-82			1				1		3	5	3		Partly Cloudy
7-6-82	1		5	1					4		2		Partly Cloudy
7-12-82				2	1				1		1		Partly cloudy
7-15-82			2						6	1	3		Partly Cloudy
7-20-82									1		1		Clear
7-23-82			1		1		4		7	2	1		Partly Cloudy
7-27-82	1		1						9	1	3	1	Partly Cloudy
7-30-82			3						1				Clear

Date		Hammocks		bench				
6	14			2	1			
6	17			3	1			
6	21							
6	24	2		3	2	1		
6	28	2		2	3	1		
7	1				1			
7	6			2				
7	12			2				
7	15	3		5		2		
7	20			2		1		
7	23	1		5				
7	27			6	1			
7	30			1	1			

Needs August Data

NC - New crawl
OC - Old crawl
NN - New Nest
ON - Old Nest
NP - Nest Predation New Nest
OP - Nest Predation old nest

	Onslow Beach						Browns Island						
Date	NC	OC	NN	ON	NP	OP	NC	OC	NN	ON	NP	OP	weather condition
8-3-82			1	1					2	1	2		fog
8-5-82				1					1				fog
8-10-82		2		1						1			partly cloudy
8-13-82			2						1				partly cloudy
8-17-82	1						1						clear
8-20-82													clear
8-23-82				1									overcast
8-26-82													clear

Date	Hammocks Beach					
8-3-82			1	1		
8-5-82						
8-10-82				1		
8-13-82			1			
8-17-82						
8-20-82						
8-23-82						
8-26-82						

Sea Turtle Inventory

For

Summer and Fall 1982

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Table I

SEA TURTLE INVENTORY
(Crawl Data)

Typed 12/9

Marine Corps Base
Camp Lejeune, North Carolina

Crawl No.	Date	Time Crawl Occurred	Active Nest (✓)	Location*	Comments
001	5-16-82	0100		3.4(N)	C.O.
002	5-17-82	0200	✓	1.9 (N)	133 eggs Relocated 10'(W) on dunes
003	5-17-82	0100	✓	3.3(N)	152 eggs
004	6-2-82	0100	✓	2.3(N)	127 eggs
005	6-2-82	0100	✓	1.7(N)	109 eggs
006	6-2-82	0100		0.5(N)	C.O.
007	6-4-82	0100-0730		2.2(N)	C.O.
008	6-4-82	0100-0730	✓	2.3(N)	143 eggs
009	6-4-82	2000		0.9(N)	C.O.
010	6-5-82	2100		2.3(S)	C.O.
011	6-5-82	0330	✓	2.6(N)	137 eggs Tag - 749/775
012	6-5-82	2030		3.4(N)	C.O.
013	6-5-82	2145		2.4(N)	C.O. Tag - 757/774
014	6-6-82	0015		3.5(N)	C.O. Tag - 772/773
015	6-7-82	2400		3.3(S)	C.O. Tag - 401/402
016	6-8-82	2300		4.0(N)	C.O. Tag - 403/404
*017	6-9-82	0130	✓	2.6(S)	136 eggs 772/773
018	6-10-82	2400		2.6(N)	C.O.
019	6-10-82	2400		2.6(N)	C.O.
020	6-10-82	2200		2.8(N)	C.O.
021	6-11-82	2230		1.7(N)	C.O.

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 made or throught to have occurred. Conduct surveys daily during regular working hours 0800-1630 traveling by four wheel drive vehicle when tide is low. Traverse the beach flood plane in vehicle to avoid leaving tire tracks in the sand.

* - Return of previously tagged turtle

C.O. - Crawl only

SEA TURTLE INVENTORY
(Crawl Data)

Typed 1/21/9

Marine Corps Base
Camp Lejeune, North Carolina

Crawl No.	Date	Time Crawl Occurred	Active Nest (✓)	Location*	Comments
022	6-11-82	2300	✓	2.0(N)	133 eggs Tag - 405/406
023	6-12-82	2000-2100	✓	3.3(S)	122 eggs
024	6-13-82	0500		2.0(N)	C.O.
025	6-15-82	2345	✓	0.1(N)	Relocated 111 eggs Tag-407/408
026	6-15-82	0100		3.6(S)	C.O.
027	6-16-82	2330	✓	3.4(N)	Relocated From 3.6(N) 157 eggs Tag-409/411
028	6-18-82	2300		2.3(N)	C.O.
029	6-18-82	2300		2.5(N)	C.O.
030	6-19-82	2130		2.6(N)	C.O. Tag-780/781
031	6-19-82	2345		0.5(N)	C.O.
032	6-20-82	0115	✓	0.1(N)	Relocated From 0.1(S) 155 eggs Tag-782/783
033	6-20-82	0200		2.2(N)	C.O.
034	6-20-82	0200		2.3(N)	C.O.
035	6-20-82	2330	✓	0.1(N)	Relocated From 0.5(S) Tag-784/785 109 eggs plus 1 broken by turtle
*036	6-21-82	0115	✓	0.6(N)	780/781 111 eggs plus 2 doubles
037	6-21-82	0100		2.0(N)	C.O.
038	6-21-82	0100		2.7(N)	C.O.
039	6-21-82	0100		3.4(N)	C.O.
040	6-21-82	2130	✓	2.6(S)	90 eggs Tag-786/787
*041	6-22-82	0110		3.9(N)	C.O. 747/748
042	6-25-82	2200	✓	2.6(N)	Relocated 127 eggs Tag-788/790

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 made or throught to have occurred. Conduct surveys daily during regular working hours 0800-1630 traveling by four wheel drive wehicle when tide is low. Traverse the beach flood plane in vehicle to avoid leaving tire tracks in the sand.

*- Return of previously tagged turtle

C.O. - Crawl only.

SEA TURTLE INVENTORY
(Crawl Data)

tagged 12/9

Marine Corps Base
Camp Lejeune, North Carolina

Crawl No.	Date	Time Crawl Occurred	Active Nest (✓)	Location*	Comments
*043	6-25-82	2200	✓	2.1 (N)	139 eggs 36/772
044	6-25-82	2200	✓	2.1 (N)	135 eggs Tag- 793/794
*045	6-25-82	2200	✓	Relocated 0.7 (N)	403/404 - Tags coming off, 119 eggs replaced with 791/792
046	6-25-82	2230	✓	3.1 (N)	127 eggs Tag- 795/796
047	6-30-82	2330	✓	3.1 (S)	Relocated from 2.6(S) 68 eggs Tag - 797/798
*048	7-1-82	2145	✓	2.0 (N)	Relocated 143 eggs 409/411
049	7-1-82	2145	✓	3.0 (N)	Relocated 177 eggs Tag - 799/800
050	7-2-82	0025	✓	2.6 (N)	24 eggs Tag- 801/802
051	7-2-82	2230		3.2 (N)	C.O.
*052	7-4-82	0100		0.5 (N)	C.O. 784/785
053	7-4-82	0115	✓	3.4 (N)	111 eggs Tag - 803/804
*054	7-4-82	2130	✓	2.6 (N)	131 eggs 780/781
055	7-4-82	2215	✓	0.1 (N)	Relocated from 0.6(S) 117 eggs 784/785
056	7-4-82	2400	✓	2.9 (N)	Technician broke 4 other eggs 128 eggs Tag - 805/806 Relocated
057	7-5-82	?	✓	2.0 (N)	114 eggs
058	7-5-82	?		3.4 (N)	C.O.
059	7-3-82	2200		1.0 (N)	C.O.
*060	7-6-82	2350	✓	3.4 (S)	Relocated 155 eggs 782/783
061	7-7-82	after 0100	✓	0.2 (N)	101 eggs Relocated
*062	7-8-82	2130	✓	1.7 (N)	111 eggs 791/792
063	7-9-82	2330		4.3 (N)	C.O.

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 made or throught to have occurred. Conduct surveys daily during regular working hours 0800-1630 traveling by four wheel drive wehicle when tide is low. Traverse the beach flood plane in vehicle to avoid leaving tire tracks in the sand.

* - previously tagged turtle

Nest #043 - Return 772/36 - Tag 36 was not seen on earlier crawls and 773 was put on that flipper, but evidently had come off.

C.O. - crawl only

Typed 1/7/9

SEA TURTLE INVENTORY
(Crawl Data)

Marine Corps Base
Camp Lejeune, North Carolina

Crawl No.	Date	Time Crawl Occurred	Active Nest (✓)	Location*	Comments
*064	7-10-82	0100		2.3(N)	C.O. 36/772
*065	7-10-82	0100	✓	3.3(N)	132 eggs 793/794
066	7-10-82	2200-2400	✓	1.7(S)	Relocated 132 eggs plus 1 broken by turtle
*067	7-12-82	2230	✓	1.7(S)	Relocated from 1.0(S) 92 eggs 797/798
068	7-14-82	0200		3.35(N)	C.O.
069	7-14-82	0100	✓	2.0(N)	Relocated from 3.75(N) 134 eggs plus 1 broken triple
070	7-14-82	2345		0.2(N)	C.O.
071	7-16-82	2210		2.5(N)	C.O. Tag - 807/808
072	7-16-82	2330	✓	0.1(N)	Relocated from 0.7(S) 128 eggs Tag - 809/810
073	7-17-82	0100		1.2(N)	C.O. Turtle in surf.
*074	7-17-82	0100	✓	0.1(N)	784/785 118 eggs Relocated from 0.7(S) Relocated to 0.1(N)
075	7-17-82	0100	✓	1.6(S)	99 eggs Tag - 811/812
076	7-16-82	0300		0.5(N)	C.O.
077	7-17-82	0200		1.7(N)	C.O.
078	7-17-82	0245		2.1(N)	C.O.
*079	7-17-82	0310		2.4(N)	C.O. 64
080	7-17-82	0200		3.5(N)	C.O.
081	7-17-82	0330	✓	2.4(N)	136 eggs plus 4 broken by turtle
*082	7-18-82	2200	✓	3.3(S)	Relocated from 2.4(S) 96 eggs 803/804
*083	7-19-82	2230	✓	1.1(N)	Relocated 146 eggs 780/781
*084	7-19-82	2400		0.6(S)	C.O. ~~782/783~~

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 made or throught to have occurred. Conduct surveys daily during regular working hours 0800-1630 traveling by four wheel drive vehicle when tide is low. Traverse the beach flood plane in vehicle to avoid leaving tire tracks in the sand.

*- Return of previously tagged turtle

C.O.- Crawl only

Typed 12/9

SEA TURTLE INVENTORY
(Crawl Data)

Marine Corps Base
Camp Lejeune, North Carolina

Crawl No.	Date	Time Crawl Occurred	Active Nest (✓)	Location*	Comments
085	7-19-82	after 2400		0.8(S)	C.O.
086	7-19-82	after 2400		1.0(S)	C.O.
087	7-19-82	after 2400		1.7(S)	C.O.
088	7-19-82	after 2400		0.9(S)	C.O.
089	7-19-82	after 2400		1.1(S)	C.O.
* 090	7-20-82	2400		3.6(S)	C.O. # 782/783
* 091	7-21-82	0140		3.7(N)	C.O. # 793/794
092	7-22-82	2300		3.4(N)	C.O.
093	7-25-82	after 2300	✓	2.4(N)	141 eggs plus 2 broken by turtle
094	7-25-82	after 2300		3.4(N)	C.O.
095	7-25-82	after 2300		3.6(N)	C.O.
096	7-24-82	?		0.1(S)	C.O.
097	7-26-82	0100		0.4(N)	C.O.
098	7-27-82	2330	✓	3.3(N)	Relocated from 3.7 108 eggs plus 1 small egg Tag# 813/814
099	7-28-82	0130	✓	0.5(N)	Relocated 96 eggs Tag# 815/816
100	7-28-82	0200	✓	3.3(N)	122 eggs relocated from 3.8(N)
101	7-28-82	2400.?		3.0(S)	C.O.
102	7-29-82	2200		0.3(S)	C.O.
* 103	7-29-82	2200	✓	2.1(S)	103 eggs # 803/804
* 104	7-30-82	0100	✓	0.7(N)	119 eggs # 784/785
* 105	7-31-82	0115		0.1(S)	C.O. # 64/817

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 made or throught to have occurred. Conduct surveys daily during regular working hours 0800-1630 traveling by four wheel drive vehicle when tide is low. Traverse the beach flood plane in vehicle to avoid leaving tire tracks in the sand.

typed 12/9

SEA TURTLE INVENTORY
(Crawl Data)

Marine Corps Base
Camp Lejeune, North Carolina

Crawl No.	Date	Time Crawl Occurred	Active Nest (✓)	Location*	Comments
*106	7-31-82	0145		0.2(N)	CO no eggs #749/775
*107	7-31-82	2200	✓	0.2(N)	108 eggs #749/775
*108	7-31-82	2320	✓	3.3(N)	relocated from 0.9(N) 5 eggs #64/817
*109	8-1-82	0045		2.1(S)	C.O. return 786/787
110	8-2-82	after 0300	✓	3.45(N)	96 Eggs reloc. from 2.6(N)
111	8-2-82	after 0300	✓	3.45(N)	120 Eggs
112	8-3-82	after 0200	✓	3.4(N)	144 Eggs relocated
113	8-6-82	2130	✓	3.35(S)	132 Eggs rel.
114	8-8-82	2150		3.4(N)	CO Tag 818/819
115	8-9-82	2315		0.1(S)	C.O.
116	8-9-82	2400	✓	0.3(N)	91 Eggs rel. 1 Broken Egg
117	8-11-82	after 0300	✓	2.3(N)	129 Eggs rel.
118	8-11-82	2245		3.4(S)	B.P.
119	8-15-82	0030		2.2(S)	C.O.
*120	8-15-82	0115		2.2(S)	C.O. return # 775/749
*121	8-15-82	2200	✓	1.7(S)	# 775/749 97 Eggs rel. 2 broken Eggs
*122	8-16-82	0015		3.2(N)	C.O. return # 801/802

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 made or throught to have occurred. Conduct surveys daily during regular working hours 0800-1630 traveling by four wheel drive wehicle when tide is low. Traverse the beach flood plane in vehicle to avoid leaving tire tracks in the sand.

Table IV

Typed 12/10/82

Sea Turtle Inventory
(Hatching Success)
Marine Corps Base
Camp Lejeune, North Carolina

Nest No.(1)	Incubation Period (2)	No. Eggs Laid (3)	No. Unhatched Eggs (4)	No. Released Young (5)	No. Emerged Young (6)	No. total Young (7)	Percent of Success
008	6-4-82 8-23-82 (80)	143	42	36	65	101	71
011	6-5-82 8-23-82 (79)	137	31	19	87	106	77
004	6-2-82 8-23-82 (82)	127	27	37	63	100	79
035	6-20-82 8-24-82 (65)	109	5	7	97	104	95
032	6-20-82 8-24-82 (65)	155	23	1	131	132	85
027	6-16-82 8-31-82 (76)	157	30	48	79	127	81
017	6-9-82 8-26-82 (78)	136	26	0	110	110	81
040	6-21-82 8-26-82 (66)	90	14	0	76	76	84
002	6-14-82 8-26-82 (72)	133	100	26	7	33	25
025	6-15-82 8-27-82 (75)	111	62	26	23	49	44
036	6-21-82 8-27-82 (67)	111	34	0	77	77	69
023	6-12-82 8-30-82 (79)	122	38	2	82	84	69
046	6-25-82 8-31-82 (87)	127	51	12	64	76	60
-049-	7-1-82	177	177	0	0	0	0
		~~1835~~	~~660~~ ✓	214 ✓	~~961~~ ✓	~~1175~~ ✓	

Instructions: (1) Enter nest number which coincides with crawl number on Sea Turtle Inventory (Crawl Data) Sheet. (2) Enter date turtle nested and date of hatching to determine incubation period. (3) Enter number of eggs laid. (4) Enter number eggs remaining which did not hatch. (5) enter number of hatchlings released from the nest. (6) Enter number of hatchlings which emerged from nest on their own. (7) Enter number released young plus number emerged young. (8) Divide number total young by No. eggs laid to find percent of success.

Sea Turtle Inventory
(Hatching Success)
Marine Corps Base
Camp Lejeune, North Carolina

Nest No.(1)	Incubation Period (2)	No. Eggs Laid (3)	No. Unhatched Eggs (4)	No. Released Young (5)	No. Emerged Young (6)	No. total Young (7)	Percent of Success
044	6-25-82 9-7-82 (74)	135	75	2	58	60	44
043	6-25-82 9-7-82 (75)	139	17	5	117	122	88
054	7-4-82 9-7-82 (65)	131	62	25	44	69	53
023	6-12-82 9-10-82 (90)	122	94	0	28	28	23
048	7-1-82 9-13-82 (74)	143	13	1	129	130	91
022	6-11-82 9-13-82 (82)	133	2	14	117	131	98
047	6-30-82 8-31-82 (62)	68	68	0	0	0	0
003	5-17-82 8-16-82 (70)	152	41	49	62	111	73
005	6-2-82 8-15-82 (74)	109	2	21	86	107	98
057	7-5-82 9-16-82 (73)	114	32	0	82	82	72
069	7-14-82 9-16-82 (64)	134	55	72	7	79	59
045	6-25-82 9-16-82 (83)	119	2	0	117	117	98
055	7-4-82 9-16-82 (74)	117	23	13	81	94	80
083	7-19-82 9-16-82 (59)	146	21	29	96	125	86
		~~1762~~	~~507~~	~~231~~	~~1024~~	~~1255~~	

Instructions: (1) Enter nest number which coincides with crawl number on Sea Turtle Inventory (Crawl Data) Sheet. (2) Enter date turtle nested and date of hatching to determine incubation period. (3) Enter number of eggs laid. (4) Enter number eggs remaining which did not hatch. (5) enter number of hatchlings released from the nest. (6) Enter number of hatchlings which emerged from nest on their own. (7) Enter number released young plus number emerged young. (8) Divide number total young by No. eggs laid to find percent of success.

Sea Turtle Inventory
(Hatching Success)
Marine Corps Base
Camp Lejeune, North Carolina

Nest No.(1)	Incubation Period (2)	No. Eggs Laid (3)	No. Unhatched Eggs (4)	No. Released Young (5)	No. Emerged Young (6)	No. total Young (7)	Percent of Success
053	7-4-82 9-17-82 (75)	111	31	3	77	80	72
074	7-17-82 9-17-82 (62)	118	10	2	106	108	92
082	7-18-82 9-17-82 (61)	96	20	3	73	76	79
056	7-4-82 9-20-82 (76)	128	18	0	110	110	86
-102-	7-29-82 9-20-82 (53)	103	washed	out	to	Sea	
060	7-6-82 9-20-82 (76)	155	10	0	145	145	94
072	7-16-82 9-20-82 (66)	128	8	2	118	120	94
075	7-16-82 9-20-82 (64)	99	3	2	94	96	97
093	7-25-82 9-21-82 (58)	141	108	24	-9-	33	23
081	7-17-82 9-21-82 (66)	136	44	5	87	92	68
042	6-25-82 9-21-82 (58)	127	77	0	50	50	39
050	7-2-82 9-23-82 (54)	124	118	0	6	6	5
065	7-10-82 9-23-82 (75)	132	76	1	55	56	42
098	7-27-82 9-23-82 (79)	108	24	24	-60-	84	78
		~~1406~~ ✓	~~547~~ ✓	~~66~~	~~940~~	~~1056~~ ✓	

Instructions: (1) Enter nest number which coincides with crawl number on Sea Turtle Inventory (Crawl Data) Sheet. (2) Enter date turtle nested and date of hatching to determine incubation period. (3) Enter number of eggs laid. (4) Enter number eggs remaining which did not hatch. (5) enter number of hatchlings released from the nest. (6) Enter number of hatchlings which emerged from nest on their own. (7) Enter number released young plus number emerged young. (8) Divide number total young by No. eggs laid to find percent of success.

Sea Turtle Inventory
(Hatching Success)
Marine Corps Base
Camp Lejeune, North Carolina

Nest No.(1)	Incubation Period (2)	No. Eggs Laid (3)	No. Unhatched Eggs (4)	No. Released Young (5)	No. Emerged Young (6)	No. total Young (7)	Percent of Success
103	8-1-82 9-23-82 (53)	103	62	0	41	41	40
066	7-10-82 9-24-82 (76)	132	4	0	128	128	97
067	7-12-82 9-24-82 (74)	92	88	0	4	4	4
062	7-8-82 9-27-82 (79)	111	8	0	103	103	93
099	7-28-82 9-27-82 (61)	96	63	19	14	33	34
117	8-11-82 10-4-82 (55)	129	112	0	17	17	13
098	7-27-82 10-4-82 (69)	108	24	79	25	84	78
100	7-28-82 10-4-82 (68)	122	15	8	99	107	88
108	7-31-82 10-4-82 (65)	5	4	1	0	1	20
104	7-30-82 10-4-82 (66)	119	0	0	0	0	0
113	8-6-82 10-5-82 (60)	132	65	66	1	67	51
061	7-7-82 10-5-82 (90)	101	101	0	0	0	0
112	8-3-82 10-6-82 (64)	144	138	0	6	6	4
110	8-2-82 10-12-82 (102)	96	92	3	1	4	4
111	8-2-82 10-12-82 (102)	120	75	20	25	45	38
		1610	851	196	419	640	

Instructions: (1) Enter nest number which coincides with crawl number on Sea Turtle Inventory (Crawl Data) Sheet. (2) Enter date turtle nested and date of hatching to determine incubation period. (3) Enter number of eggs laid. (4) Enter number eggs remaining which did not hatch. (5) enter number of hatchlings released from the nest. (6) Enter number of hatchlings which emerged from nest on their own. (7) Enter number released young plus number emerged young. (8) Divide number total young by No. eggs laid to find percent of success.

Sea Turtle Inventory
(Hatching Success)
Marine Corps Base
Camp Lejeune, North Carolina

Nest No.(1)	Incubation Period (2)	No. Eggs Laid (3)	No. Unhatched Eggs (4)	No. Released Young (5)	No. Emerged Young (6)	No. total Young (7)	Percent of Success
107	7-31-82 10-12-82 (73)	108	26	16	66	82	76
116	8-9-82 10-27-82 (79)	91	91	0	0	0	0
121	8-15-82 10-27-82 (73)	97	97	0	0	0	0
-123-	8-17-82 ( )	86	30	0	0	0	0
		~~382~~ ✓	~~214~~ ✓	~~16~~ 12	~~66~~ 3485	~~82~~ ✓	
		7,295	2,779	723	3,460	4208	57.7

Instructions: (1) Enter nest number which coincides with crawl number on Sea Turtle Inventory (Crawl Data) Sheet. (2) Enter date turtle nested and date of hatching to determine incubation period. (3) Enter number of eggs laid. (4) Enter number eggs remaining which did not hatch. (5) enter number of hatchlings released from the nest. (6) Enter number of hatchlings which emerged from nest on their own. (7) Enter number released young plus number emerged young. (8) Divide number total young by No. eggs laid to find percent of success.

Retain for Report

1982 Astronomical & Tidal Data

WEATHER SERVICES DIVISION
OPERATIONS DEPARTMENT
MARINE CORPS AIR STATION
(HELICOPTER)
NEW RIVER, JACKSONVILLE
NORTH CAROLINA 28545

214:PCB:dec
3146
21 DEC 1981

ASTRONOMICAL DATA FOR THE MONTH OF APRIL 1982

DATE	SUNRISE	SUNSET	MOONRISE	MOONSET	PHASE	% OF ILLUM.
01TH	0558	1831	1143	0129		0.48
02F	0557	1832	1246	0225		0.59
03SA	0555	1833	1350	0314	3/4	0.70
04SU	0554	1834	1455	0357		0.79
05M	0552	1834	1558	0435		0.87
06TU	0551	1835	1700	0510		0.93
07W	0550	1836	1800	0542	FULL	0.98
08TH	0548	1837	1858	0612		1.00
09F	0547	1837	1957	0643		0.99
10SA	0546	1838	2054	0715		0.97
11SU	0544	1839	2151	0748	3/4	0.93
12M	0543	1840	2246	0824		0.88
13TU	0542	1841	2340	0904		0.81
14W	0540	1841		0948		0.73
15TH	0539	1842	0031	1037	1/2	0.64
16F	0538	1843	0118	1129		0.55
17SA	0537	1844	0202	1225		0.45
18SU	0535	1845	0243	1323		0.36
19M	0534	1845	0320	1424	1/4	0.27
20TU	0533	1846	0355	1526		0.18
21W	0532	1847	0429	1631		0.11
22TH	0530	1848	0503	1737	NEW	0.05
23F	0529	1849	0538	1845		0.01
24SA	0528	1849	0615	1955		0.00
25SU	0527	1850	0657	2106		0.02
26M	0526	1851	0744	2216	1/4	0.07
27TU	0525	1852	0837	2322		0.14
28W	0524	1853	0935			0.23
29TH	0523	1853	1038	0022	1/2	0.33
30F	0521	1854	1143	0114		0.44

ALL TIMES ARE EASTERN STANDARD TIME

NOTE: FOR BEGINNING OF MORNING CIVIL TWILIGHT- SUBTRACT 27 MINUTES FROM SUNRISE.
END OF EVENING CIVIL TWILIGHT - ADD 27 MINUTES TO SUNSET.

WEATHER SERVICES DIVISION
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3146
15 DEC 1981

CLIMATOLOGICAL DATA FOR THE MONTH OF APRIL 1982

(based on 24 years data)

1. TEMPERATURE

a. Mean monthly temperature.....62.3
b. Mean daily maximum temperature.....73.2
c. Mean daily minimum temperature.....50.8
d. Mean no. days temperature 32F or less.....1 day
e. Extreme maximum temperature recorded for April.....93 (1967)
f. Extreme minimum temperature recorded for April.....26 (1972)

2. HUMIDITY

a. Mean Relative Humidity.....65.2%

3. PRECIPITATION

a. Mean monthly rainfall.....2.93"
b. Mean no. days with .01 or more.....9 days
c. Maximum amount of rainfall recorded for April.....6.53" (1972)
d. Minimum amount of rainfall recorded for April..... .50" (1976)
e. Maximum precipitation recorded in 24 hours..... 4.33"

4. THUNDERSTORMS

a. Percentage frequency of hourly occurrence.....0.7%

5. FOG

a. Percentage frequency of hourly occurrence.....11.2%

6. WIND

a. Prevailing direction.....SOUTHWEST
b. Mean speed.....6.2 knots
c. Peak gust recorded for April.....46 knots (1980)

7. CLOUD COVER AND VISIBILITY

a. Mean monthly cloud cover.....4.5 tenths
b. Percent ceiling greater than 500'.....99.3%
c. Percent ceiling greater than 1000'.....96.0%
d. Percent ceiling greater than 3000'.....87.1%
e. Percent ceiling greater than 5000'.....80.5%
f. Percent visibility greater than 1 mile.....99.7%
g. Percent visibility greater than 3 miles.....98.0%
h. Percent visibility greater than 5 miles.....94.0%

8. FIELD CONDITIONS

a. IFR-ceiling less than 1000' and/or visibility below 3 miles...4.8%
b. BELOW MINS- ceiling less than 200' and/or visibility below 1/2 mile.0.2%

WEATHER SERVICES DIVISION
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214:RCB:dec
3146
16 DEC 1981

ASTRONOMICAL DATA FOR THE MONTH OF MAY 1982

DATE	SUNRISE	SUNSET	MOONRISE	MOONSET	PHASE	% OF ILLUM.
01SA	0520	1855	1243	0159		0.55
02SU	0519	1856	1351	0238		0.66
03M	0518	1857	1452	0312	3/4	0.76
04TU	0517	1857	1552	0344		0.84
05W	0516	1858	1650	0415		0.91
06TH	0515	1859	1748	0445	FULL	0.96
07F	0514	1900	1845	0515		0.99
08SA	0513	1901	1942	0547		1.00
09SU	0513	1901	2038	0622		0.99
10M	0512	1902	2133	0701	3/4	0.96
11TU	0511	1903	2225	0743		0.92
12F	0510	1904	2314	0830		0.86
13SA	0509	1904	2359	0920		0.79
14SU	0508	1905		1014	1/2	0.71
15M	0508	1906	0040	1111		0.62
16TU	0507	1907	0118	1210		0.52
17W	0506	1908	0153	1310		0.42
18TH	0505	1908	0226	1412	1/4	0.32
19F	0505	1909	0259	1515		0.23
20SA	0504	1910	0332	1642		0.14
21SU	0504	1911	0408	1731		0.07
22M	0503	1911	0447	1843	NEW	0.02
23TU	0502	1912	0532	1955		0.00
24W	0502	1913	0623	2106		0.01
25TH	0501	1913	0721	2211	1/4	0.05
26F	0501	1914	0825	2308		0.11
27SA	0500	1915	0932	2357		0.20
28SU	0500	1915	1038		1/2	0.30
29M	0459	1916	1144	0039		0.41
30TU	0459	1917	1246	0115		0.52
31W	0459	1917	1346	0148		0.62

ALL TIMES ARE EASTERN STANDARD TIME

NOTE: FOR BEGINNING OF MORNING CIVIL TWILIGHT - SUBTRACT 27 MINUTES FROM SUNRISE.
END OF EVENING CIVIL TWILIGHT - ADD 27 MINUTES TO SUNSET.

WEATHER SERVICES DIVISION
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3146
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CLIMATOLOGICAL DATA FOR THE MONTH OF MAY 1982
(based on 24 years data)

1. TEMPERATURE
   a. Mean monthly temperature.....69.9
   b. Mean daily maximum temperature.....79.6
   c. Mean daily minimum temperature.....59.7
   d. Extreme maximum temperature recorded for May.....98(1962)
   e. Extreme minimum temperature recorded for May.....32(1963)

2. HUMIDITY
   a. Mean relative humidity.....72.6%

3. PRECIPITATION
   a. Mean monthly rainfall.....4.15"
   b. Mean no. days with .01" or more.....10 days
   c. Maximum amount of rainfall recorded for May.....8.36"(1974)
   d. Minimum amount of rainfall recorded for May.....1.71"(1975)
   e. Maximum amount of rainfall recorded in 24 Hours.....3.87"(1977)

4. THUNDERSTORMS
   a. Percentage frequency of hourly occurence.....1[illegible]%

5. FOG
   a. Percentage frequency of hourly occurence.....16.3%

6. WIND
   a. Prevailing direction.....Southwest
   b. Mean speed.....5.3 knots
   c. Peak gust recorded for May.....48(1968)

7. CLOUD COVER AND VISIBILITY
   a. Mean monthly cloud cover.....6.1 tenths
   b. Percent ceiling greater than 500'.....98.1%
   c. Percent ceiling greater than 1000'.....95.2%
   d. Percent ceiling greater than 3000'.....80.1%
   e. Percent ceiling greater than 5000'.....71.3%
   f. Percent visibility greater than 1 mile.....98.7%
   g. Percent visibility greater than 3 miles.....96.5%
   h. Percent visibility greater than 5 miles.....88.9%

8. FIELD CONDITIONS
   a. IFR - ceiling less than 1000' and/or visibility below 3 miles..6.5%
   b. BELOW MINS - ceiling less than 200' and/or visibility below ½ mile 1.4%

WEATHER SERVICES DIVISION
OPERATIONS DEPARTMENT
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NEW RIVER, JACKSONVILLE
NORTH CAROLINA 28545

214:BCB:de
3146
22DEC 198

ASTRONOMICAL DATA FOR THE MONTH OF JUNE 1982

DATE	SUNRISE	SUNSET	MOONRISE	MOONSET	PHASE	% OF ILLUM.
01TH	0458	1918	1445	0219	3/4	0.72
02F	0458	1919	1542	0249		0.81
03SA	0458	1919	1639	0318		0.88
04SU	0458	1920	1736	0349		0.93
05M	0457	1920	1832	0423	FULL	0.97
06TU	0457	1921	1927	0500		1.00
07W	0457	1921	2020	0541		1.00
08TH	0457	1922	2111	0626		0.98
09F	0457	1922	2157	0715	3/4	0.95
10SA	0457	1923	2239	0808		0.90
11SU	0457	1923	2318	0903		0.84
12M	0456	1924	2353	1001		0.76
13TU	0456	1924		1059	1/2	0.67
14W	0457	1924	0026	1158		0.58
15TH	0457	1925	0058	1300		0.47
16F	0457	1925	0130	1403		0.37
17SA	0457	1926	0203	1500	1/4	0.27
18SU	0457	1926	0239	1618		0.17
19M	0457	1926	0320	1729		0.09
20TU	0457	1926	0407	1841	NEW	0.03
21W	0457	1927	0502	1951		0.00
22TH	0458	1927	0604	2054		0.00
23F	0458	1927	0712	2148		0.03
24SA	0458	1927	0821	2235	1/4	0.09
25SU	0458	1927	0930	2315		0.17
26M	0459	1927	1036	2350		0.27
27TU	0459	1927	1138		1/2	0.37
28W	0459	1927	1238	0021		0.47
29TH	0500	1927	1336	0052		0.58
30F	0500	1927	1434	0121	3/4	0.67

ALL TIMES ARE EASTERN STANDARD TIME

NOTE: FOR BEGINNING OF MORNING CIVIL TWILIGHT - SUBTRACT 27 MINUTES FROM SUNRISE.
END OF EVENING CIVIL TWILIGHT - ADD 27 MINUTES TO SUNSET.

WEATHER SERVICES DIVISION
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NEW RIVER, JACKSONVILLE
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214:BCB:dec
3146
15 DEC 1981

CLIMATOLOGICAL DATA FOR THE MONTH OF JUNE 1982
(based on [illegible] years data)

1. TEMPERATURE

a. Mean monthly temperature.....76.0
b. Mean daily maximum temperature.....84.5
c. Mean daily minimum temperature.....67.1
d. Extreme maximum temperature recorded for June.....101 (1981)
e. Extreme minimum temperature recorded for June.....45 (1956)

2. HUMIDITY

a. Mean Relative Humidity.....72.8%

3. PRECIPITATION

a. Mean monthly rainfall.....5.94"
b. Mean no. days with .01" or more.....10 days
c. Maximum amount of rainfall recorded for June.....11.82 (1964)
d. Minimum amount of rainfall recorded for June.....2.39 (1969)
e. Maximum amount of rainfall recorded in 24 hours.....2.77 (1974)

4. THUNDERSTORMS

a. Percentage frequency of hourly occurrence.....2.5%

5. FOG

Percentage frequency of hourly occurrence.....17.2%

6. WIND

a. Prevailing direction.....SOUTHWEST
b. Mean speed.....4.7 knots
c. Peak gust recorded for June.....53 (1962)

7. CLOUD COVER AND VISIBILITY

a. Mean monthly cloud cover.....6.4 tenths
b. Percent ceiling greater than 500'.....92.4%
c. Percent ceiling greater than 1000'.....84.8%
d. Percent ceiling greater than 3000'.....76.8%
e. Percent ceiling greater than 5000'.....71.9%
f. Percent visibility greater than 1 mile.....98.7%
g. Percent visibility greater than 3 miles.....96.3%
h. Percent visibility greater than 5 miles.....87.7%

8. FIELD CONDITIONS

a. IFR - ceiling less than 1000' and/or visibility below 3 miles....7.2%
b. BELOW MINS - ceiling below 200' and/or visibility below ½ mile...0.3%

WEATHER SERVICES DIVISION
OPERATIONS DEPARTMENT
MARINE CORPS AIR STATION
(HELICOPTER)
NEW RIVER, JACKSONVILLE
NORTH CAROLINA 28545

214:RCB:dec
3146
8 FEB 1982

MONTH OF APRIL
TIDAL DATA FOR NEW RIVER INLET, N. C.

DATE	TIME	HT.	TIME	HT.	TIME	HT.	TIME	HT.
1	0103	3.3	0728	.4	1337	2.8	1938	.4
2	0214	3.3	0840	.4	1450	2.9	2053	.4
3	0324	3.3	0946	.3	1559	3.0	2202	.3
4	0429	3.3	1044	.2	1658	3.1	2305	.1
5	0524	3.3	1147	.0	1750	3.2	2357	.0
6	0614	3.2	1221	-.1	1838	3.3		
7	0046	-.1	0659	3.2	1302	-.2	1921	3.3
8	0230	-.2	0741	3.1	1342	-.2	2001	3.3
9	0211	-.2	0819	3.0	1420	-.2	2040	3.3
10	0252	-.1	0858	2.9	1455	-.1	2118	3.2
11	0332	.0	0937	2.7	1530	.0	2157	3.1
12	0411	.1	1016	2.6	1609	.1	2235	3.0
13	0455	.2	1056	2.5	1648	.3	2319	2.5
14	0541	.3	1141	2.4	1733	.4		
15	0005	2.8	0630	.4	1234	2.3	1826	.4
16	0159	2.7	0726	.4	1332	2.3	1924	.4
17	0156	2.6	0822	13	1432	2.3	2027	.3
18	0255	2.7	0914	.2	1527	2.5	2127	.2
19	0350	2.7	1004	.1	1617	2.6	2222	.0
20	0439	2.8	1047	-.1	1705	2.9	2313	-.2
21	0527	2.9	1132	-.2	1751	3.1		
22	0001	-.3	0614	3.0	1214	-.3	1836	3.3
23	0050	-.4	0701	3.1	1259	-.4	1923	3.5
24	0136	-.4	0747	3.1	1344	-.4	2009	3.7
25	0225	-.4	0833	3.2	1430	-.3	2059	3.7
26	0316	-.2	0923	3.2	1518	-.3	2150	3.7
27	0409	-.1	1016	3.1	1614	.0	2245	3.7
28	0507	.1	1115	3.0	1712	.2	2344	3.5
29	0608	.3	1221	3.0	1819	.4		
30	0050	3.4	0716	.4	1330	3.0	1931	.5

NOTE: ALL TIMES ARE EASTERN STANDARD TIME.

BOGUE INLET TIDES: SUBTRACT 3 MIN. FOR HIGH TIDE. SUBTRACT 0.8 FT. HIGH HT. SUBTRACT 2 MIN FOR LOW TIDE. NO HT. CORRECTION FOR LOW.

NEW TOPSAIL TIDES: ADD 4 MIN FOR HIGH TIDE. ADD 43 MIN FOR LOW TIDES. NO HT. CORRECTION FOR HIGH OR LOW TIDES.

WEATHER SERVICES DIVISION
OPERATIONS DEPARTMENT
MARINE CORPS AIR STATION
(HELICOPTER)
NEW RIVER, JACKSONVILLE
NORTH CAROLINA 28545

214:RCB:dec
3146
9 FEB. 1982

MONTH OF MAY
TIDAL DATA FOR NEW RIVER INLET, N. C.

DATE	TIME	HT.	TIME	HT.	TIME	HT.	TIME	HT.
1	0159	3.3	0822	.4	1430	3.0	2043	.5
2	0305	3.2	0923	.3	1543	3.1	2149	.4
3	0407	3.1	1018	.2	1639	3.2	2249	.2
4	0502	3.1	1108	.1	1728	3.2	2340	.1
5	0550	3.0	1151	.0	1814	3.3		
6	0027	.0	0632	2.9	1231	-.1	1856	3.3
7	0109	-.1	0714	2.8	1309	-.1	1933	3.3
8	0149	-.1	0754	2.8	1345	-.1	2012	3.2
9	0228	-.1	0831	2.7	1423	-.1	2049	3.1
10	0307	-.1	0910	2.6	1459	.0	2126	3.1
11	0345	.0	0947	2.5	1537	.1	2204	3.0
12	0427	.1	1029	2.4	1616	.2	2243	2.9
13	0507	.2	1112	2.4	1701	.3	2328	2.8
14	0552	.2	1201	2.3	1752	.4		
15	0016	2.7	0640	.3	1253	2.4	1847	.4
16	0109	2.7	0729	.2	1348	2.5	1947	.3
17	0206	2.6	0821	.2	1443	2.6	2048	.2
18	0304	2.7	0915	.0	1537	2.8	2146	.0
19	0359	2.7	1004	-.1	1629	3.1	2241	-.1
20	0450	2.8	1052	-.3	1721	3.3	2334	-.3
21	0542	2.9	1141	-.4	1810	3.5		
22	0027	-.4	0633	3.0	1230	-.4	1859	3.7
23	0119	-.4	0725	3.1	1322	-.4	1951	3.8
24	0211	-.4	0817	3.1	1412	-.3	2044	3.8
25	0303	-.3	0910	3.1	1506	-.2	2137	3.8
26	0357	-.1	1006	3.1	1603	.0	2232	3.7
27	0454	.0	1107	3.1	1704	.2	2333	3.5
28	0554	.2	1209	3.1	1808	.3		
29	0034	3.3	0655	.3	1314	3.1	1917	.4
30	0137	3.2	0755	.3	1419	3.1	2025	.4
31	0240	3.0	0851	.3	1519	3.1	2130	.4

NOTE: ALL TIMES ARE EASTERN STANDARD TIME.

BOGUE INLET TIDES: SUBTRACT 3 MIN. FOR HIGH TIDE. SUBTRACT 0.8 FT. FROM ANY HIGH HT. SUBTRACT 2 MIN. FOR LOW TIDE. NO HT. CORRECTION FOR LOW TIDE.

NEW TOPSAIL TIDES: ADD 4 MIN. FOR HIGH TIDE. ADD 43 MIN FOR LOW TIDES. NO HT. CORRECTION FOR HIGH OR LOW TIDES.

WEATHER SERVICES DIVISION
OPERATIONS DEPARTMENT
MARINE CORPS AIR STATION
(HELICOPTER)
NEW RIVER, JACKSONVILLE
NORTH CAROLINA 28545

214:PCB:dec
3146
9 FEB. 1982

MONTH OF JUNE

TIDAL DATA FOR NEW RIVER INLET, N. C.

DATE	TIME	HT.	TIME	HT.	TIME	HT.	TIME	HT.
1	0338	2.9	0946	.2	1612	3.1	2226	.3
2	0433	2.8	1034	.1	1702	3.1	2317	.1
3	0521	2.7	1117	.0	1745	3.1		
4	0003	.0	0604	2.6	1158	-.1	1825	3.1
5	0044	-.1	0646	2.6	1238	-.1	1907	3.1
6	0126	-.2	0726	2.5	1315	-.1	1944	3.1
7	0206	-.2	0805	2.4	1354	-.1	2021	3.0
8	0243	-.2	0845	2.4	1429	-.1	2059	3.0
9	0320	-.1	0923	2.4	1508	.0	2136	2.9
10	0358	-.1	1004	2.3	1550	.1	2215	2.8
11	0438	.0	1043	2.4	1632	.2	2256	2.8
12	0517	.1	1128	.24	1717	12	2341	2.7
13	0559	.1	1215	2.5	1813	.3		
14	0029	2.7	0645	.1	1306	2.6	1909	.3
15	0122	2.6	0736	.1	1404	2.83	2013	.2
16	0219	2.6	0828	.0	1501	3.0	2114	.1
17	0319	2.7	0923	-.1	1556	3.2	2214	-.1
18	0418	2.7	1018	-.3	1653	3.4	2313	-.2
19	0516	2.8	1114	-.4	1747	3.6		
20	0009	-.3	0611	2.9	1209	-.4	1842	3.7
21	0103	-.4	0708	3.0	1303	-.4	1936	3.8
22	0157	-.4	0804	3.1	1359	-.4	2030	3.8
23	0249	-.3	0859	3.2	1455	-.3	2123	3.7
24	0344	-.2	0955	3.2	1552	-.1	2217	3.6
25	0437	-.1	1051	3.2	1650	.1	2314	3.4
26	0530	.0	1150	3.1	1751	.2		
27	0010	3.2	0626	.1	1249	3.1	1855	.4
28	0107	3.0	0722	.2	1348	3.1	1958	.4
29	0205	2.8	0814	.2	1446	3.0	2101	.4
30	0301	2.7	0906	.2	1538	3.0	2156	.3

ALL TIMES EASTERN STANDARD TIME

BOGUE INLET TIDES: SUBTRACT 3 MIN. FOR HIGH TIDE. SUBTRACT 0.8 FT. FROM HIGH HT. SUBTRACT 2 MIN. FOR LOW TIDE. NO HT. CORRECTION FOR LOW TIDE.

NEW TOPSAIL TIDES: ADD 4 MIN. FOR HIGH TIDE. ADD 43 MIN FOR LOW TIDES. NO HT. CORRECTION FOR HIGH OR LOW TIDES.

Whaldrip Section

WEATHER SERVICES DIVISION
MARINE CORPS AIR STATION
(HELICOPTER)
NEW RIVER, JACKSONVILLE
NORTH CAROLINA 28545

214/RCB/wap
3146
14 JUNE 1982

NOTES

1. All times are in EASTERN STANDARD TIME. Add one hour to get DAYLIGHT SAVINGS TIME.

2. TO get BMCT subtract 27min. from sunrise.

3. To get EECT add 27min. to sunset.

4. THE moon phase for JULY is as follows:

JULY	4th	FULL
	9th	3/4
	12th	1/2
	16th	1/4
	19th	NEW
	22nd	1/4
	26th	1/2
	30th	3/4

WEATHER SERVICES DIVISION
MARINE CORPS AIR STATION
(HELICOPTER)
NEW RIVER, JACKSONVILLE
NORTH CAROLINA 28545

214;RGB:wsp
3146
2 JUNE 1982

CLIMATOLOGICAL DATA FOR THE MONTH OF JULY
(based on 24 years of data)

1. TEMPERATURE
   a. Mean monthly temperature.....79.6
   b. Mean daily maximun temperature.....87.9
   c. Mean daily minimun temperature.....71.4
   d. Extreme maximun temperature.....101(1977)
   e. Extreme minimun temperature.....54.0(1973)

2. HUMIDITY
   a. Mean relitive humidity.....74.0%

3. PRECIPITATION
   a. Mean monthly rainfall.....8.08"
   b. Mean no. days with .01" or more.....14 days
   c. Maximun amount of rainfall recorded for July.....14.34" (1959)
   d. Minimun amount of rainfall recorded for July.....4.50" (1960)
   e. Maximun precipitation recorded in 24 hours.....5.35" (1959)

4. THUNDERSTORMS
   a. Percentage frequency of hourly occurrence.....2.9%

5. FOG
   a. Percentage frequency of hourly occurrence.....16.0%

6. WIND
   a. Prevailing direction.....Southwest
   b. Mean speed.....3.6 knots
   c. Peak gust recorded for July.....56 (1961)

7. CLOUD COVER AND VISIBILITY
   a. Mean monthly cloud cover.....6.0 tenths
   b. Percent ceiling greater than 500'.....99.8%
   c. Percent ceiling greater than 1000'.....97.9%
   d. Percent ceiling greater than 3000'.....84.8%
   e. Percent ceiling greater than 5000'.....77.7%
   f. Percent visibility greater than 1 miles.....99.4%
   g. Percent visibility greater than 3 miles.....95.9%
   h. Percent visibility greater than 5 miles.....84.4%

8. FIELD CONDITIONS
   a. IFR- ceiling less than 1000' and/or visibility below 3 miles....5.3%
   b. BELOW MINS -- ceiling less than 200' and/or visibility below 1/2 mile 2.2%

WEATHER SERVICES DIVISION
OPERATIONS DEPARTMENT
MARINE CORPS AIR STATION
(HELICOPTER)
NEW RIVER, JACKSONVILLE
NORTH CAROLINA 28545

214/RGB/pks
3146
17 MAY 1982

ASTRONOMICAL DATA FOR THE MONTH OF JULY 1982

DATE	SUNRISE	SUNSET	MOONRISE	MOONSET	PHASE	% OF ILLUM
01TH	0501	1927	1530	0152		76
02F	0501	1927	1626	0225		84
03SA	0501	1927	1722	0300		90
04SU	0502	1927	1816	0340		95
05M	0502	1927	1907	0423		98
06TU	0503	1927	1955	0511		100
07W	0503	1927	2039	0603		100
08TH	0504	1926	2119	0658		97
09F	0504	1926	2155	0755		93
10SA	0505	1926	2228	0853		88
11SU	0506	1926	2300	0951		81
12M	0506	1925	2331	1051		72
13TU	0507	1925		1151		62
14W	0507	1924	0002	1254		52
15TH	0508	1924	0036	1359		41
16F	0509	1924	0113	1508		30
17SA	0509	1923	0156	1618		20
18SU	0510	1923	0245	1728		11
19M	0511	1922	0343	1833		05
20TU	0511	1921	0448	1933		01
21W	0512	1921	0558	2024		00
22TH	0513	1920	0708	2108		02
23F	0513	1920	0818	2146		07
24SA	0514	1919	0924	2220		14
25SU	0515	1918	1027	2252		23
26M	0516	1918	1127	2323		32
27TU	0516	1917	1226	2353		42
28W	0517	1916	1323			52
29TH	0518	1915	1420	0026		62
30F	0518	1914	1516	0100		71
31SA	0518	1914	1610	0138		79

WEATHER SERVICES DIVISION
OPERATIONS DEPARTMENT
MARINE CORPS AIR STATION
(HELICOPTER)
NEW RIVER, JACKSONVILLE
NORTH CAROLINA 28545

214/RCB/pta
3146
26 MAY 1982

MONTH OF JULY

TIDAL DATA FOR NEW RIVER INLET N.C.

DATE	TIME	HT.	TIME	HT.	TIME	HT.	TIME	HT.
1	0356	2.6	0956	.2	1628	3.0	2252	.2
2	0447	2.5	1043	.1	1715	3.0	2337	.1
3	0536	2.4	1127	.0	1758	3.0		
4	0019	-.1	0620	2.4	1209	-.1	1840	3.0
5	0101	-.2	0701	2.4	1250	-.1	1918	3.0
6	0140	-.2	0741	2.4	1328	-.2	1957	3.0
7	0218	-.2	0820	2.4	1407	-.1	2034	2.9
8	0254	-.2	0858	2.4	1446	-.1	2111	2.9
9	0329	-.2	0934	2.5	1524	.0	2148	2.9
10	0403	-.1	1013	2.5	1606	.1	2227	2.8
11	0440	.0	1055	2.6	1652	.2	2307	2.8
12	0520	.0	1141	2.7	1743	.2	2354	2.7
13	0603	.1	1231	2.9	1839	.3		
14	0048	2.7	0653	.1	1327	3.0	1941	.2
15	0146	2.7	0750	.0	1428	3.2	2046	.2
16	0250	2.7	0850	.0	1530	3.3	2152	.1
17	0354	2.8	0954	-.1	1631	3.5	2255	.0
18	0457	2.9	1053	-.2	1731	3.6	2353	-.2
19	0557	3.0	1155	-.3	1828	3.7		
20	0049	-.3	0654	3.1	1251	-.3	1923	3.8
21	0141	-.3	0749	3.2	1348	-.3	2015	3.8
22	0234	-.3	0844	3.3	1442	-.2	2107	3.7
23	0323	-.2	0937	3.3	1537	-.1	2158	3.6
24	0413	-.1	1030	3.3	1630	.1	2249	3.4
25	0502	.0	1123	3.3	1726	.3	2340	3.2
26	0552	.2	1216	3.2	1824	.4		
27	0031	3.0	0642	.3	1310	3.1	1925	.5
28	0126	2.8	0733	.3	1407	3.0	2026	.5
29	0223	2.6	0825	.4	1503	3.0	2123	.5
30	0320	2.5	0919	.3	1554	3.0	2220	.4
31	0415	2.4	1008	.2	1641	3.0	2308	.2

ALL TIMES ARE EASTERN STANDARD TIME

BOGUE INLET TIDES: SUBTRACT 3 MIN. FOR HIGH TIDE. SUBTRACT 0.8 FT FROM HIGH HT. SUBTRACT 2 MIN. FOR LOW TIDE. NO HT. CORRECTION FOR LOW TIDE.

NEW TOPSAIL TIDES: ADD 4 MIN. FOR HIGH TIDE. ADD 43 MIN FOR LOW TIDES. NO HT. CORRECTION FOR HIGH OR LOW TIDES.

WEATHER SERVICES DIVISION
OPERATIONS DEPARTMENT
MARINE CORPS AIR STATION
(HELICOPTER)
NEW RIVER, JACKSONVILLE
NORTH CAROLINA 28545

214/RCB/pta
3146
26 MAY 1982

MONTH OF JULY

TIDAL DATA FOR NEW RIVER INLET N.C.

DATE	TIME	HT.	TIME	HT.	TIME	HT.	TIME	HT.
1	0356	2.6	0956	.2	1628	3.0	2252	.2
2	0447	2.5	1043	.1	1715	3.0	2337	.1
3	0536	2.4	1127	.0	1758	3.0		
4	0019	-.1	0620	2.4	1209	-.1	1840	3.0
5	0101	-.2	0701	2.4	1250	-.1	1918	3.0
6	0140	-.2	0741	2.4	1328	-.2	1957	3.0
7	0218	-.2	0820	2.4	1407	-.1	2034	2.9
8	0254	-.2	0858	2.4	1446	-.1	2111	2.9
9	0329	-.2	0934	2.5	1524	.0	2148	2.9
10	0403	-.1	1013	2.5	1606	.1	2227	2.8
11	0440	.0	1055	2.6	1652	.2	2307	2.8
12	0520	.0	1141	2.7	1743	.2	2354	2.7
13	0603	.1	1231	2.9	1839	.3		
14	0048	2.7	0653	.1	1327	3.0	1941	.2
15	0146	2.7	0750	.0	1428	3.2	2046	.2
16	0250	2.7	0850	.0	1530	3.3	2152	.1
17	0354	2.8	0954	-.1	1631	3.5	2255	.0
18	0457	2.9	1053	-.2	1731	3.6	2353	-.2
19	0557	3.0	1155	-.3	1828	3.7		
20	0049	-.3	0654	3.1	1251	-.3	1923	3.8
21	0141	-.3	0749	3.2	1348	-.3	2015	3.8
22	0234	-.3	0844	3.3	1442	-.2	2107	3.7
23	0323	-.2	0937	3.3	1537	-.1	2158	3.6
24	0413	-.1	1030	3.3	1630	.1	2249	3.4
25	0502	.0	1123	3.3	1726	.3	2340	3.2
26	0552	.2	1216	3.2	1824	.4		
27	0031	3.0	0642	.3	1310	3.1	1925	.5
28	0126	2.8	0733	.3	1407	3.0	2026	.5
29	0223	2.6	0825	.4	1503	3.0	2123	.5
30	0320	2.5	0919	.3	1554	3.0	2220	.4
31	0415	2.4	1008	.2	1641	3.0	2308	.2

ALL TIMES ARE EASTERN STANDARD TIME

BOGUE INLET TIDES: SUBTRACT 3 MIN. FOR HIGH TIDE. SUBTRACT 0.8 FT FROM HIGH HT. SUBTRACT 2 MIN. FOR LOW TIDE. NO HT. CORRECTION FOR LOW TIDE.

NEW TOPSAIL TIDES: ADD 4 MIN. FOR HIGH TIDE. ADD 43 MIN FOR LOW TIDES. NO HT. CORRECTION FOR HIGH OR LOW TIDES.

WEATHER SERVICES DIVISION
MARINE CORPS AIR STATION
(HELICOPTER)
NEW RIVER, JACKSONVILLE
NORTH CAROLINA 28545

214:RCB:wcp
3146
3 JUNE 1982

CLIMATOLOGICAL DATA FOR THE MONTH OF AUGUST
(based on 24 years of data)

1. TEMPERATURE
   a. Mean monthly temperature.....79.3
   b. Mean daily maximum temperature.....87.4
   c. Mean daily minimum temperature.....71.2
   d. Extreme maximum temperature recorded for August.....101 (1968)
   e. Extreme minimum temperature recorded for August.....57 (1957)

2. HUMIDITY
   a. Mean relative humidity.....77.8%

3. PRECIPITATION
   a. Mean monthly rainfall.....6.46"
   b. Mean no. days with .01" or more.....12 days
   c. Maximum amount of rainfall recorded for August.....12.64" (1974)
   d. Minimum amount of rainfall recorded for August.....1.69" (1972)
   e. Maximum precipitation recorded in 24 hours.....6.71(1981)

4. THUNDERSTORMS
   a. Percentage frequency of hourly occurrence.....2.8%

5. FOG
   a. Percentage frequency of hourly occurrence.....23.2%

6. WIND
   a. Prevailing direction.....South
   b. Mean speed.....3.5 knots
   c. Peak gust recorded for August.....39 knots(19

7. CLOUD COVER AND VISIBILITY
   a. Mean monthly cloud cover.....6.1 tenths
   b. Percent ceiling greater than 500'.....98.6%
   c. Percent ceiling greater than 1000'.....96.5%
   d. Percent ceiling greater than 3000'.....79.8%
   e. Percent ceiling greater than 5000'.....72.5%
   f. Percent visibility greater than 1 miles.....98.6%
   g. Percent visibility greater than 3 miles.....94.3%
   h. Percent visibility greater than 5 miles.....83.8%

8. FIELD CONDITIONS
   a. IFR-ceiling less than 1000' and/or visibility below 3 miles.....7.4%
   b. BELOW MINS-ceiling less than 200' and/or visibility below 1/2 mile.0.8%

WEATHER SERVICES DIVISION
OPERATIONS DEPARTMENT
MARINE CORPS AIR STATION
(HELICOPTER)
NEW RIVER, JACKSONVILLE
NORTH CAROLINA 28545

214/RCB/wap
3146
25 MAY 1982

ASTRONOMICAL DATA FOR THE MONTH OF AUGUST 1982

DATE	SUNRISE	SUNSET	MOONRISE	MOONSET	PHASE	% OF ILLUM
01SU	0520	1913	1703	0220		86
02M	0521	1912	1752	0307		92
03TU	0521	1911	1837	0358	FULL	97
04W	0522	1910	1919	0452		99
05TH	0523	1909	1956	0549		100
06F	0524	1908	2030	0647		99
07SA	0524	1907	2102	0746	3/4	96
08SU	0525	1906	2133	0845		91
09M	0526	1905	2204	0945		84
10TU	0527	1904	2237	1047	1/2	76
11W	0527	1903	2311	1150		66
12TH	0528	1902	2350	1255		55
13F	0529	1901		1402		44
14SA	0530	1900	0036	1510	1/4	33
15SU	0530	1859	0128	1616		22
16M	0531	1857	0228	1717		13
17TU	0532	1856	0335	1811	NEW	06
18W	0533	1855	0445	1858		02
19TH	0533	1854	0555	1941		00
20F	0534	1853	0703	2016		01
21SA	0535	1851	0809	2049	1/4	05
22SU	0536	1850	0912	2121		11
23M	0536	1849	1013	2152		18
24TU	0537	1848	1113	2224	1/2	27
25W	0538	1846	1211	2258		36
26TH	0539	1845	1308	2335		46
27F	0539	1844	1403			56
28SA	0540	1843	1456	0016	3/4	65
29SU	0541	1841	1547	0101		74
30M	0541	1840	1634	0151		82
31TU	0542	1839	1716	0244		88

WEATHER SERVICES DIVISION
OPERATIONS DEPARTMENT
MARINE CORPS AIR STATION
(HELICOPTER)
NEW RIVER, JACKSONVILLE
NORTH CAROLINA 28545

214/RCB/[illegible]
3146
27 MAY 198[illegible]

MONTH OF AUGUST
TIDAL DATA FOR NEW RIVER INLET, N.C.

DATE	TIME	HT.	TIME	HT.	TIME	HT.	TIME	HT.
1	0505	2.4	1057	.1	1729	3.0	2353	.1
2	0553	2.4	1142	.0	1811	3.0		
3	0035	-.1	0635	2.4	1224	-.1	1852	3.0
4	0111	-.1	0715	2.5	1305	-.1	1931	3.0
5	0147	-.2	0752	2.6	1344	-.1	2009	3.0
6	0222	-.2	0820	2.7	1423	-.1	2044	3.0
7	0255	-.1	0906	2.8	1502	.0	2120	3.0
8	0329	-.1	0942	2.9	1542	.1	2156	3.0
9	0405	.0	1024	3.0	1627	.2	2238	3.0
10	0446	.1	1109	3.1	1715	.3	2325	2.9
11	0531	.2	1202	3.2	1813	.4		
12	0018	2.9	0624	.2	1300	3.3	1917	.4
13	0120	2.8	0725	.3	1405	3.4	2028	.4
14	0228	2.8	0830	.2	1511	3.5	2135	.4
15	0338	2.9	0938	.2	1617	3.6	2241	.2
16	0444	3.0	1044	.1	1719	3.7	2338	.1
17	0545	3.2	1145	-.1	1816	3.8		
18	0034	.0	0641	3.4	1242	-.1	1910	3.8
19	0123	-.1	0736	3.5	1336	-.1	2000	3.8
20	0212	-.1	0825	3.6	1428	-.1	2047	3.7
21	0257	-.1	0914	3.6	1519	.0	2136	3.6
22	0342	.0	1000	3.5	1609	.2	2219	3.4
23	0427	.2	1050	3.4	1650	.4	2307	3.2
24	0512	.3	1138	3.3	1751	.5	2356	3.[illegible]
25	0556	.5	1229	3.2	1847	.6		
26	0047	2.8	0647	.6	1323	3.1	1943	[illegible]
27	0143	2.6	0741	.6	1420	3.0	2045	[illegible]
28	0242	2.5	0837	.6	1515	3.0	2143	[illegible]
29	0341	2.5	0933	.5	1609	3.0	2233	[illegible]
30	0436	2.5	1028	.3	1657	3.0	2318	.2
31	0522	2.6	1116	.2	1740	3.1	2358	.1

ALL TIMES EASTERN STANDARD TIME.

BOGUE INLET TIDES: SUBTRACT 3 MIN. FOR HIGH TIDE. SUBTRACT [illegible] FT. FROM HEIGHT. SUBTRACT 2 MIN. FOR LOW TIDE. NO HT. CORRECTION FOR LOW TIDE.

NEW TOPSAIL TIDES: ADD 4 MIN. FOR HIGH TIDE. ADD 43 MIN. FOR LOW TIDES. NO HT. CORRECTION FOR HIGH OR LOW TIDES.

WEATHER SERVICES DIVISION
MARINE CORPS AIR STATION
(HELICOPTER)
NEW RIVER, JACKSONVILLE
NORTH CAROLINA 28545

214/RCB/wap
3146
7 JUNE 1982

CLIMATOLOGICAL DATA FOR THE MONTH OF SEPTEMBER
(based on 24 years of data)

1. TEMPERATURE
   a. Mean monthly temperature.....74.3
   b. Mean daily maximum temperature.....82.9
   c. Mean daily minimum temperature.....65.6
   d. Extreme maximum temperature recorded for September.....96.0(1980)
   e. Extreme minumum temperature recorded for September.....44.0(1981)

2. HUMIDITY
   a. Mean relative humidity.....78.7%

3. PRECIPITATION
   a. Mean monthly rainfall.....4.31"
   b. Mean no. days with .01 or more.....12 days
   c. Maximum amount of rainfall recorded for September.....12.19"(197[illegible])
   d. Minimum amount of rainfall recorded for September.....1.40"(1965)
   e. Maximum precipitation recorded in 24 hours.....6.15"(1979)

4. THUNDERSTORMS
   a. Percentage frequency of hourly occurrence.....1.7%

5. FOG
   a. Percentage frequency of hourly occurrence.....24.1%

6. WIND
   a. Prevailing direction.....North
   b. Mean speed.....3.5 knots
   c. Peak gust recored for September.....70 knots(19[illegible])

7. CLOUD COVER AND VISIBILITY
   a. Mean monthly cloud cover.....6.0 tenths
   b. Percent ceiling greater than 500'.....97.9%
   c. Percent ceiling greater than 1000'.....94.[illegible]%
   d. Percent ceiling greater than 3000'.....79.[illegible]%
   e. Percent ceiling greater than 5000'.....68.6%
   f. Percent visibility greater than 1 miles.....98.4%
   g. Percent visibility greater than 3 miles.....94.6%
   h. Percent visibility greater than 5 miles.....83.8%

8. FIELD CONDITIONS
   a. IFR-ceiling less than 1000' and/or visibility below 3 miles.....9.1%
   b. BELOW MINS-ceiling less than 200' and/or visibility below 1/2 mile.1.1%

WEATHER SERVICES DIVISION
OPERATIONS DEPARTMENT
MARINE CORPS AIR STATION
(HELICOPTER)
NEW RIVER, JACKSONVILLE
NORTH CAROLINA 28545

214/RCB/pte
3146
25 MAY 1982

ASTRONOMICAL DATA FOR THE MONTH OF SEPTEMBER 1982

DATE	SUNRISE	SUNSET	MOONRISE	MOONSET	PHASE	% OF ILLUM
01W	0543	1837	1755	0340	FULL	04
02TH	0544	1836	1831	0438		98
03F	0544	1834	1904	0538		100
04SA	0545	1833	1936	0638		100
05SU	0546	1832	2007	0739	3/4	97
06M	0547	1830	2039	0840		93
07TU	0547	1829	2112	0943		87
08W	0548	1828	2150	1048		79
09TH	0549	1826	2232	1154	1/2	69
10F	0549	1825	2321	1301		58
11SA	0550	1823		1406		47
12SU	0551	1822	0017	1507	1/4	36
13M	0552	1820	0119	1602		25
14TU	0552	1819	0226	1651		15
15W	0553	1818	0335	1733		08
16TH	0554	1816	0443	1811	NEW	03
17F	0554	1815	0550	1845		00
18SA	0555	1813	0655	1917		00
19SU	0556	1812	0757	1949	1/4	03
20M	0557	1810	0858	2021		07
21TU	0557	1809	0958	2055		14
22W	0558	1808	1057	2131		21
23TH	0559	1806	1154	2210	1/2	30
24F	0559	1805	1248	2254		39
25SA	0600	1803	1340	2342		48
26SU	0601	1802	1428			58
27M	0602	1801	1512	0034	3/4	67
28TU	0602	1759	1553	0120		76
29W	0603	1758	1629	0226		83
30TH	0604	1756	1703	0325		90

WEATHER SERVICES DIVISION
OPERATIONS DEPARTMENT
MARINE CORPS AIR STATION
(HELICOPTER)
NEW RIVER, JACKSONVILLE
NORTH CAROLINA 28545

214/RC8/wap
3146
28 MAY 1982

MONTH OF SEPTEMBER
TIDAL DATA FOR NEW RIVER INLET, N.C.

DATE	TIME	HT.	TIME	HT.	TIME	HT.	TIME	HT.
1	0604	2.7	1158	.1	1822	3.1		
2	0036	.0	0645	2.8	1241	.0	1903	3.2
3	0112	-.1	0721	2.9	1321	-.1	1940	3.2
4	0146	-.1	0759	3.1	1359	-.1	2015	3.2
5	0221	.0	0835	3.2	1439	.0	2053	3.2
6	0257	.0	0914	3.4	1521	.1	2133	3.2
7	0334	.1	0958	3.5	1606	.2	2216	3.2
8	0416	.2	1045	3.5	1658	.4	2304	3.1
9	0505	.3	1138	3.5	1755	.5	2359	3.1
10	0600	.5	1240	3.5	1900	.6		
11	0105	3.0	0708	.5	1348	3.6	2012	.7
12	0218	3.0	0819	.5	1459	3.6	2122	.6
13	0330	3.1	0933	.5	1605	3.7	2228	.5
14	0436	3.3	1039	.3	1708	3.7	2324	.3
15	0535	3.5	1138	.2	1803	3.8		
16	0014	.1	0628	3.6	1232	.1	1854	3.8
17	0102	.1	0717	3.7	1323	.0	1940	3.7
18	0145	.0	0803	3.7	1410	.0	2025	3.6
19	0229	.1	0848	3.7	1457	.1	2108	3.5
20	0308	.2	0930	3.7	1542	.3	2150	3.3
21	0349	.3	1013	3.5	1626	.4	2231	3.1
22	0430	.4	1059	3.4	1712	.6	2317	2.9
23	0514	.6	1144	3.3	1807	.7		
24	0007	2.8	0603	.7	1236	3.1	1903	.7
25	0103	2.6	0658	.7	1334	3.0	2002	.7
26	0204	2.6	0759	.7	1431	3.0	2058	.6
27	0305	2.6	0859	.6	1527	3.0	2151	.5
28	0359	2.6	0954	.5	1620	3.0	2237	.4
29	0446	2.8	1044	.3	1705	3.1	2319	.2
30	0528	2.9	1129	.2	1747	3.1	2356	.1

ALL TIMES EASTERN STANDARD TIME.

BOGUE INLET TIDES: SUBTRACT 3 MIN. FOR HIGH TIDE, SUBTRACT 0.8 FT. FROM HIGH HT. SUBTRACT 2 MIN. FOR LOW TIDE. NO HT. CORRECTION FOR LOW TIDE.

NEW TOPSAIL TIDES: ADD 4 MIN. FOR HIGH TIDE, ADD 43 MIN. FOR LOW TIDES. NO HT. CORRECTION FOR HIGH OR LOW TIDES.