

# 12302

ORIG.

Diag. Cht. No. 1237.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey SHORELINEField No. Ph-6217 Office No. T-12302

### LOCALITY

State SOUTH CAROLINAGeneral locality CAPE FEAR, N.C. TO  
WINYAH BAY, S.C.Locality NORTH INLET196<sup>2</sup>~~5~~ - 1964

### CHIEF OF PARTY

Joseph K. Wilson, Chief, Photo Party 6420  
J. C. Bull, Director, Atlantic Marine Center

### LIBRARY & ARCHIVES

DATE December 1967

USCOMM-DC 5087

# 12302

## DESCRIPTIVE REPORT - DATA RECORD

T-12302

PROJECT NO. (II):

Job PH-6217

FIELD OFFICE (III):

Myrtle Beach, South Carolina

CHIEF OF PARTY

Joseph K. Wilson

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center

OFFICER-IN-CHARGE

J. C. Bull, Director Atlantic  
Marine Center

INSTRUCTIONS DATED (II) (III):

11 September 1963	Field
14 October 1963	Office
10 January 1964	Amendment #1 Office

METHOD OF COMPILATION (III):

Kelsh Plotter

MANUSCRIPT SCALE (III):

1:20,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000 pantographed to 1:20,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III):

~~MEAN SEA LEVEL~~ EXCEPT AS FOLLOWS: MHW

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

REFERENCE STATION (III):

CAINES, 1934

LAT.:

33° 17' 23.745" (731.5m)

LONG.:

79° 10' 43.156" (1116.6m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

Y=110,504.85 ft.

X=2,556,648.45 ft.

STATE

South Carolina

ZONE

North

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE,  
OR (IV) WASHINGTON OFFICE.

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

## DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (III): Jim D. Shea Harvey G. Lucas Erwest W. Hartford		DATE: Nov. 1963 Nov. 1963 Jan. 1964
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Air Photo compilation Date of photography - Sept. 1, 1962		
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree		DATE Dec. 1963
PROJECTION AND GRIDS CHECKED BY (IV): P. Silverman		DATE Dec. 1963
CONTROL PLOTTED BY (III): V. P. Cackowski		DATE Dec. 1963
CONTROL CHECKED BY (III): R. E. Smith		DATE Dec. 1963
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): R. B. Kelly (W.O.)		DATE Dec. 1963
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY R. J. Pate	DATE Jan. 1964
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): I. Saperstein		DATE Jan 1964
SCRIBING BY (III): A. Santillan		DATE Dec. 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. E. Smith		DATE Feb. 1966
REMARKS: FIELD EDIT R.L. TIBBETTS JUNE 1964 (REFER TO PAGES 17 AND 21)		

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"S" Camera

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62 S 1095A thru 62 S 1099A	1 Sept. 1962	0825	1:30,000	4.6 ft. above MHW

## TIDE (III) Predicted

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	CHARLESTON, S.C.		5.1	6.0
SUBORDINATE STATION:	North Inlet	HW LW	-0.6 0.0	4.5 5.3
SUBORDINATE STATION:	Winyah Bay (South Jetty)	HW LW	-0.5 0.0	4.6 5.4

WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, Atlantic Marine Center

DATE: June 1966  
~~1 Sept. 1965~~

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

16

RECOVERED:

14

IDENTIFIED:

6

NUMBER OF BM(S) SEARCHED FOR (II):

1

RECOVERED:

0

IDENTIFIED:

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

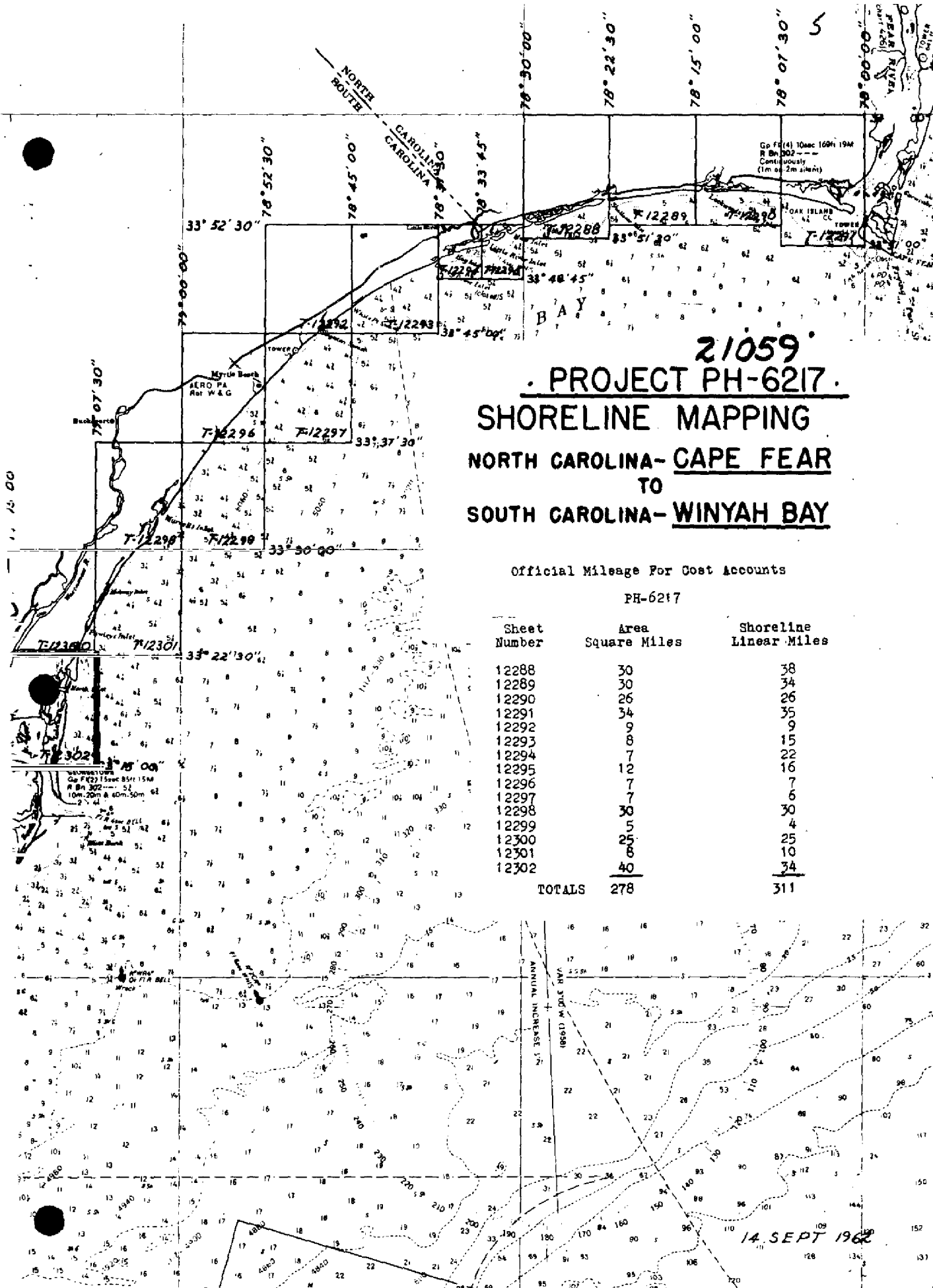
4

COMPILATION RECORD

COMPLETION DATE

REMARKS

Manuscript complete, Pending field edit	January 1964	superseded
Alongshore area revised from field edit. Manuscript complete	March 1964	



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-12302

Shoreline map T-12302 is one of fifteen similar maps in project PH-6217 (21059). It covers a portion of the shoreline of North Island and Debidue Island on the outer coast and port of the shoreline of Mud Bay. This is a Kelsh project in advance of hydrographic surveys. The field operations preceding compilation included recovery and identification of horizontal control and field inspection. The Kelsh compilation was at a scale of 1:20,000, from which a film positive showing shoreline and alongshore features was furnished for the preparation of the hydrographer's boat sheet. 1:30,000 scale photography, taken September 1, 1962, was used for compilation. 1:20,000 scale ratio prints were subsequently provided for hydro support purposes.

The manuscript is a vinylite sheet  $7\frac{1}{2}'$  in latitude by  $7\frac{1}{2}'$  in longitude which was reproduced on cronaflex, after scribing and following photogrammetric office review. One cronar positive and one cronar film negative of the reviewed manuscript are provided for record and registry.

FIELD INSPECTION REPORT  
 Project 21059 (PH-6217)  
 Maps T-12300 thru T-12302

This report is submitted for the three maps since there are no great differences in terrain, natural or cultural features which would require special treatment.

## 2. AREAL FIELD INSPECTION

The area lies between Winyah Bay and to a point just south of Murrells Inlet and also includes a part of the Waccamaw, Black, and Pee Dee Rivers. The photograph coverage is not complete for each map, therefore, in accordance with instructions from Washington, field inspection has been completed to the limits of the photographs with the exceptions of a few cases where photographs coverage extends beyond the map limits. No field inspection was attempted west of the Waccamaw River.

The portion bordering the Atlantic Ocean consists of high sand dunes along the ocean with marsh and swamp behind. The area along and adjacent to the Waccamaw River consists of old abandoned rice fields and swamp. There are only a few places where the river touches high ground.

Pawleys Island is the largest settlement within the area. This is a summer resort with Post Office, fire station etc. Most of the land area is owned by plantations and the paper companies. Special permission is usually required to enter since most of the entrances are via locked gates.

The photographic quality was good for the entire area. Photographic tones were found to be similar to other areas along the South Atlantic Coast. The photographs used were taken in both 1962 and 1963 therefore, causing some areas to photograph slightly different. The field inspector has used the more recent photography where possible.

Photographs used for field inspection are listed below by individual maps;

<u>T-12302</u>	<u>T-12301</u>	<u>T-12300</u>
62-S-1096A	63-W-3049	63-W-3053
62-S-1097A	63-W-3050	63-W-3051
62-S-1099A	63-W-3051	62-S-1083A
62-S-1100A	63-W-3052	62-S-1084A
	63-W-3053	62-S-1085A
		62-S-1086A
		62-S-1087A

### 3. HORIZONTAL CONTROL

Horizontal control recovery and identification has been completed in accordance with project instructions.

Geodetic Party 601 restored much of the horizontal control scheme along this section during the winter of 1962 and 1963. Their party located the aids to navigation within Winyah Bay (Map T-12302) with the exception of the daybeacons. Special attention is invited to Winyah Bay Light 2 and Winyah Bay Light 100. These two lights have been plotted incorrectly on our project diagram. In fact the G.P. of each light as computed by the geodetic party is in error. The positions, as shown on chart 787 are correct. It is believed that the computations were computed from the back azimuth. Neither of these two lights fall within the map limits of T-12302. The G.P.'s of the remainder of the lights in Winyah Bay were thoroughly checked and found to be correct.

The identification of horizontal control was accomplished in October 1963 and form 152 and 526 (duplicate) were forwarded to Washington at that time.

Horizontal control stations reported "lost", "destroyed", or "Not recovered" are listed below by maps;

<u>T-12300</u>	<u>T-12301</u>	<u>T-12302</u>
Waverly, 1934	Dan, 1924	Dune, 1925
Dale, 1935	(reported destroyed	Slim, 1934
Holiday, 1935	in 1962)	Wacca, 1934
Weymouth, 1934		
Cary, 1934		

### 4. VERTICAL CONTROL

A search was made for all tidal bench marks within the limits of these maps. Form 685A was submitted for each mark. Due to Photographic coverage, only two marks were identified on the photographs.

### 5. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage is almost entirely composed of tidal streams. Normal drainage is generally by direct run-off into marsh, swamp or the tidal streams.

### 6. WOODLAND COVER

Woodland cover was classified in accordance with the topographic manual.

7. SHORELINE AND ALONGSHORE FEATURES

The high-water line has been indicated on the photographs by symbol in accordance with current instructions. No attempt was made to delineate the low-water line.

The field inspector accomplished this phase by several methods; measurements from identifiable points of detail, by visual inspection from skiff and by walking the shoreline.

All other shoreline features are adequately covered by field inspection notes on the photographs. There have been no great changes since photography.

8. OFFSHORE FEATURES

Several piling in Winyah Bay were located during this survey. See form 24a submitted with the map data. Where there was no photo coverage, no field inspection was done.

9. LANDMARKS AND AIDS

The two nautical landmarks at Pawleys Island have been destroyed. There are no new landmarks recommended. See form 567.

All fixed aids to navigation are reported on form 567 for charting. There were no changes. The lights in Winyah Bay were located by third-order triangulation in 1962 and 1963 by Geodetic Party 601 (See item 2 of this report) other aids to navigation were identified by several methods namely; direct method, theodolite cuts from triangulation stations and photo points, and by sextant. The aids along the Intracoastal Waterway were identified by the direct method where possible, however, in many instances the light fell so near the shore that overhanging trees blotted-out the image on the photographs.

The privately maintained lights on the end of the fishing pier at Pawleys Island were found in good condition. Form 567 for these pier lights will be submitted with the data of maps T-12298 etc. at a later date.

10. BOUNDARIES, MONUMENTS AND LINES

There have been no boundary lines shown.

11. OTHER CONTROL

There were no topographic stations established.

12. OTHER INTERIOR FEATURES

All roads were classified in accordance with Photogrammetry instructions no. 56.

Field inspection of buildings was done in accordance with Photogrammetry instructions no. 54, revised September 22, 1961.

There were no bridge or cable clearances measured during this survey.

Marsh and swamp limits have been shown on the photographs where coverage was available, with the exception of the area west of the Waccamaw River.

13. GEOGRAPHIC NAMES

See special report of Geographic names, Project 21059, which will be submitted at a later date.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Transmitting letters, horizontal control identification, forwarded to Washington on 10-16-63 and 10-24-63. Form 567 forwarded with this report.

17 January 1964

Submitted by:

*Joseph K. Wilson*  
Joseph K. Wilson

Chief, Photo Party 6420

SCALE FACTOR

APPROX METER	DATE	CHECKED BY:	DATE	COMM-DC-57843
950	FEB 1966	J. J. J.	FEB 21 1966	



COMPILATION REPORT  
T-12302

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-12296

31. DELINEATION

The Kelsh Plotter was used. Field inspection was adequate.

32. CONTROL

See photogrammetric plot report.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was delineated as inspected or from office interpretation.

35. SHORELINE AND ALONGSHORE DETAILS

Shoal, shallow, spoil, and low water lines have been shown from office interpretation.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

Appropriate copies of form 567 for aids to navigation were forwarded to the Washington Office under date March 6, 1964.

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37. LANDMARKS AND AIDS (Cont.)

There are no landmarks.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions are in agreement with T-12300 to the north. There are no contemporary surveys to the east, south and west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. Quadrangle, North Island, S.C. scale 1:24,000 dated 1942.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with USC&GS Chart No 1237, scale 1:80,000, revised 11/5/65 and Chart No. 787 1:40,000 scale revised 11/12/62.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Approved and forwarded:

*R. E. Smith*  
R. E. Smith  
Cartographer

*J. C. Bull*  
J. C. Bull, Director, Atlantic Marine Center

GEOGRAPHIC NAMES

Ph 21059 (6217)  
(Cape Fear, N.C. - Winyah Bay, S.C.)

T-12302

- |                         |                         |
|-------------------------|-------------------------|
| Atlantic Ocean✓         | Nancy Creek✓            |
| Bass Hole Bay✓          | No Mans Friend Creek✓   |
| * Bellefield Plantation | North Inlet✓            |
| Bly Creek✓              | Noble Slough✓           |
| Boor Creek✓             | Old Man creek✓          |
| Bread & Butter Creek✓   | Oyster Bay✓             |
| * Caines                | Peablossom Creek✓       |
| * Cat Island            | Pumpkinseed Islands✓    |
| Clambank✓               | Sea Creek Bay✓          |
| Clambank Creek✓         | * Sawmill Creek         |
| Collins Island✓         | Sign Creek✓             |
| Cooks Creek✓            | Sixty Bass Creek✓       |
| Cottonpatch Creek✓      | Town Creek✓             |
| Cutoff Creek✓           | * Waccamaw River        |
| Crab Haul Creek✓        | * Western Channel       |
| Debidue Beach✓          | Winyah Bay✓             |
| Debidue Creek✓          | Wood Creek✓             |
| * Denny Corner          | North Island✓           |
| Dividing Creek✓         | Perry Creek✓            |
| Double Prong Creek✓     | Bobs Garden creek✓      |
| Duck Creek✓             | Bass Hole creek✓        |
| * Friendfield           | A. J. Wraight           |
| Goat Island✓            | A. J. Wraight           |
| Haulover Creek✓         | Chief Geographic Branch |
| Jones Creek✓            |                         |
| Little Jones Creek✓     |                         |
| Little Wood Creek✓      |                         |
| Long Bay✓               |                         |
| * Malady Bush Island    |                         |
| * Malady Bush Neck      |                         |
| * Marsh Islands         |                         |
| Mud Creek✓              |                         |
| Mud Bay✓                |                         |

\* Names do not appear on this  
manuscript

T-12302

49. NOTES FOR THE HYDROGRAPHER

A submerged wreck shown on Chart 787 at the entrance of North Inlet could not be seen on the photographs and should be investigated by the hydrographic party.

FORM 182 (8-61)		PHOTOGRAMMETRIC OFFICE REVIEW T- 12302		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
1. PROJECTION AND GRIDS RES		2. TITLE RES		3. MANUSCRIPT NUMBERS RES	
4. MANUSCRIPT SIZE RES		5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RES		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) XX	
7. PHOTO HYDRO STATIONS XX		8. BENCH MARKS XX		9. PLOTTING OF SEXTANT FIXES XX	
10. PHOTOGRAMMETRIC PLOT REPORT BRIDGE (W.O.)		11. DETAIL POINTS KELSH			
12. SHORELINE RES		13. LOW-WATER LINE XX		14. ROCKS, SHOALS, ETC. RES	
15. BRIDGES XX		16. AIDS TO NAVIGATION RES		17. LANDMARKS XX	
18. OTHER ALONGSHORE PHYSICAL FEATURES RES		19. OTHER ALONGSHORE CULTURAL FEATURES RES			
20. WATER FEATURES RES		21. NATURAL GROUND COVER RES			
22. PLANETABLE CONTOURS XX		23. STEREOSCOPIC INSTRUMENT CONTOURS XX			
24. CONTOURS IN GENERAL XX		25. SPOT ELEVATIONS XX			
26. OTHER PHYSICAL FEATURES RES		27. ROADS RES		28. BUILDINGS RES	
29. RAILROADS XX		30. OTHER CULTURAL FEATURES RES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX			
33. GEOGRAPHIC NAMES RES		34. JUNCTIONS RES			
35. LEGIBILITY OF THE MANUSCRIPT RES		36. DISCREPANCY OVERLAY XX		37. DESCRIPTIVE REPORT RES	
38. FIELD INSPECTION PHOTOGRAPHS RES		39. FORMS RES			
SIGNATURE OF REVIEWER RES <i>P. E. Smith</i>		SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauch, Jr.</i>			
40. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT- Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side.					
SIGNATURE OF COMPILER <i>P. E. Smith</i>		SIGNATURE OF SUPERVISOR <i>Albert C. Rauch, Jr.</i>			

FIELD EDIT REPORT  
T-11302

No formal field edit report was received. Information available to the Final Review Section indicate that the manuscript was field edited in June 1964.

REVIEW REPORT T-12302  
SHORELINE  
June 3, 1966

61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-8225                      1:20,000                      1942

This map supersedes the listed prior survey for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

U.S.G.S. - NORTH ISLAND, SOUTH CAROLINA                      1:24,000                      1942

With the exception of the erosion along the outer coast and in the vicinity of North Inlet, the two maps are in good agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet PE-20-2A-64.

Due to field edit corrections, a change was made in the MHWL at latitude 33°18.5', longitude 79°09.9'. This correction should be made on the hydrographer's smooth sheet.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 787, 3rd edition, October 26, 1964. A submerged wreck at latitude 33° 19.7' longitude 79° 09.4' is not visible on photography of the area.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the National Standard of Map Accuracy.

NOTE : ITEMS 62 AND <sup>65</sup>~~64~~ - REFER TO  
PAGE 21 OF THIS REPORT

Reviewed by:

Leo F. Beugnet  
L. F. Beugnet

Approved by:

J. Bull  
J. Bull, CAPT  
Director, Atlantic Marine Center

Approved by:

Charles Leman  
Chief, Cartographic Branch

J. Ralph Sotkowski  
Chief, Photogrammetry Division  
12-06-67

John O. Boyer  
Chief, Chart Division  
Marine

Chief, Operations Division

## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED  
TO BE REVISED  
TO BE DELETED

STRIKE OUT TWO

I recommend that the following objects which have ~~(been)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

**The positions given have been checked after listing by**

**Tampa, Florida** **Feb. 20** **1964**

**I. I. Superstein**

**V. Ralph Soble**

**Chief of Party.**

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

**\* TABULATE SECONDS AND METERS**

NOTES TO VERIFIER  
T-12302 Project PH-6217 (21059)  
Boat Sheet No. PE-20-2A-64

A discrepancy exists in the shoreline at North Inlet between the boat sheet and this map. The shoreline was located by the field editor and was noted "subject to frequent change."

The following photographs were used in the manner indicated:

Control Identification: 62-S-1096A, 1097A

Field Inspection: 62-S-1096A, 1097A, 1099A, 1100A

Field Edit: 62-S-1097A

Final Review: 62-S-1094A thru 1100A

NOTE: A COMPARISON PRINT WAS SUBMITTED BY THE FINAL REVIEWER; IT WAS DESTROYED, HOWEVER, SINCE IT CONTAINED NO INFORMATION NOT ACCOUNTED FOR IN THE REVIEW REPORT AND IN THIS NOTE.

(1) NUMEROUS NATURAL SHORELINE CHANGES OCCURRED DURING THE ELAPSED TIME BETWEEN SURVEY T-8225 AND THE SUBJECT SURVEY (ITEM 62 OF THE REVIEW REPORT)

(2) A SUBMERGED WRECK SHOWN ON CHART 787 AT LAT. 33°19.7', LONG. 79°09.4' IS NOT VISIBLE ON PHOTOGRAPHY OF THE AREA - 62S 1096A, 62S 1097A, DATED 1 SEPT. 1962, 1:30,000 SCALE, TIDE STAGE 4.6 FT. ABOVE MLW (ITEM 65 OF THE REVIEW REPORT)

SGS

