

T-12273

T-12273

T-12273

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No.	Office No. T-12273
LOCALITY	
State	SOUTH CAROLINA
General locality	WINYAH BAY TO CHARLESTON HARBOR
Locality	WINYAH BAY
1962 - 1964	
CHIEF OF PARTY	
J. K. Wilson, Chief of Party	
J. Bull, Norfolk Regional Office	
LIBRARY & ARCHIVES	
DATE	

FORM C&GS-181a
(12-61)U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T- 12273

PROJECT NO. (II):

21058

FIELD OFFICE (III):

Georgetown, South Carolina

CHIEF OF PARTY

Joseph K. Wilson

PHOTOGRAMMETRIC OFFICE (III):

Norfolk, Virginia
Tampa, Florida

OFFICER-IN-CHARGE

J. Bull
V. Ralph Sobieralski

INSTRUCTIONS DATED (II) (III):

October 8, 1962	Field	
November 5, 1962	Office	
February 20, 1963	"	Amendment I
April 26, 1963	"	" II
October 10, 1963	"	Supplement I

METHOD OF COMPILATION (III):

Kelsh Plotter

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000

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): MHW

~~XXXXXXXXXX~~ EXCEPT AS FOLLOWS:

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):

GEORGETOWN LIGHTHOUSE, 1925 ^{ON} (Out-12274)

LAT.:

LONG.:

33° 13' 20".878 (643.2m)

79° 11' 07".013 (181.6m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

y = 510,176.57 ✓

x = 2,554,951.68 ✓

South Carolina

South

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.

FORM C&GS-181b (12-61)		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT - DATA RECORD			
FIELD INSPECTION BY (II): M. A. Stewart H. G. Lucas		DATE: January 1964	
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of Photography September 1, 1962			
PROJECTION AND GRIDS RULED BY (IV): A. Riley (Washington Office)		DATE February 1963	
PROJECTION AND GRIDS CHECKED BY (IV): W. M. (Washington Office)		DATE February 1963	
CONTROL PLOTTED BY (III): V. P. Cackowski		DATE May 1963	
CONTROL CHECKED BY (III): R. D. Purvis		DATE May 1963	
STEREOSCOPIC CONTROL STEREOSCOPIC CONTROL EXTENSION BY (III): Washington Office		DATE April 1963	
STEREOSCOPIC INSTRUMENT COMPILATION (III): R. E. Smith, Jr. R. J. Pate		PLANIMETRY R. J. Pate Reviewed: J. Honick	DATE September 1963
		CONTOURS Inapplicable	DATE September 1963
MANUSCRIPT DELINEATED BY (III): R. J. Pate Reviewed by: R. R. Wagner		DATE October 1963	
SCRIBING BY (III): B. Barge Reviewed by: R. E. Smith, Jr.		DATE December 1964 December 1964	
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. R. Wagner		DATE May 1965	
REMARKS: FIELD EDIT 1964			

FORM C&GS-181c
(12-61)U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Single Lens Camera "S"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62-S-1100A	Sept. 1, 1962	08:32	Diapositives 1:30,000	3.9
62-S-1101A	" "	08:32	"	3.9
62-S-1102A	" "	08:32	"	3.9
62-S-1109A	" "	08:35	"	3.9

Predicted TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: CHARLESTON		5.1	6.0
SUBORDINATE STATION: Georgetown Light	H.W. -1.1 L.W. 0.0	4.0	4.7
SUBORDINATE STATION:			

~~WASHINGTON OFFICE REVIEW BY (IV):~~ **FINAL** M. M. Slavney, Norfolk Regional Office

DATE: 8/65

PROOF EDIT BY (IV): M. M. Slavney, Norfolk Regional Office

DATE: 11/65

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): * 1	RECOVERED: * 1	IDENTIFIED: None
NUMBER OF BM(S) SEARCHED FOR (II): None	RECOVERED:	IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): None

REMARKS:

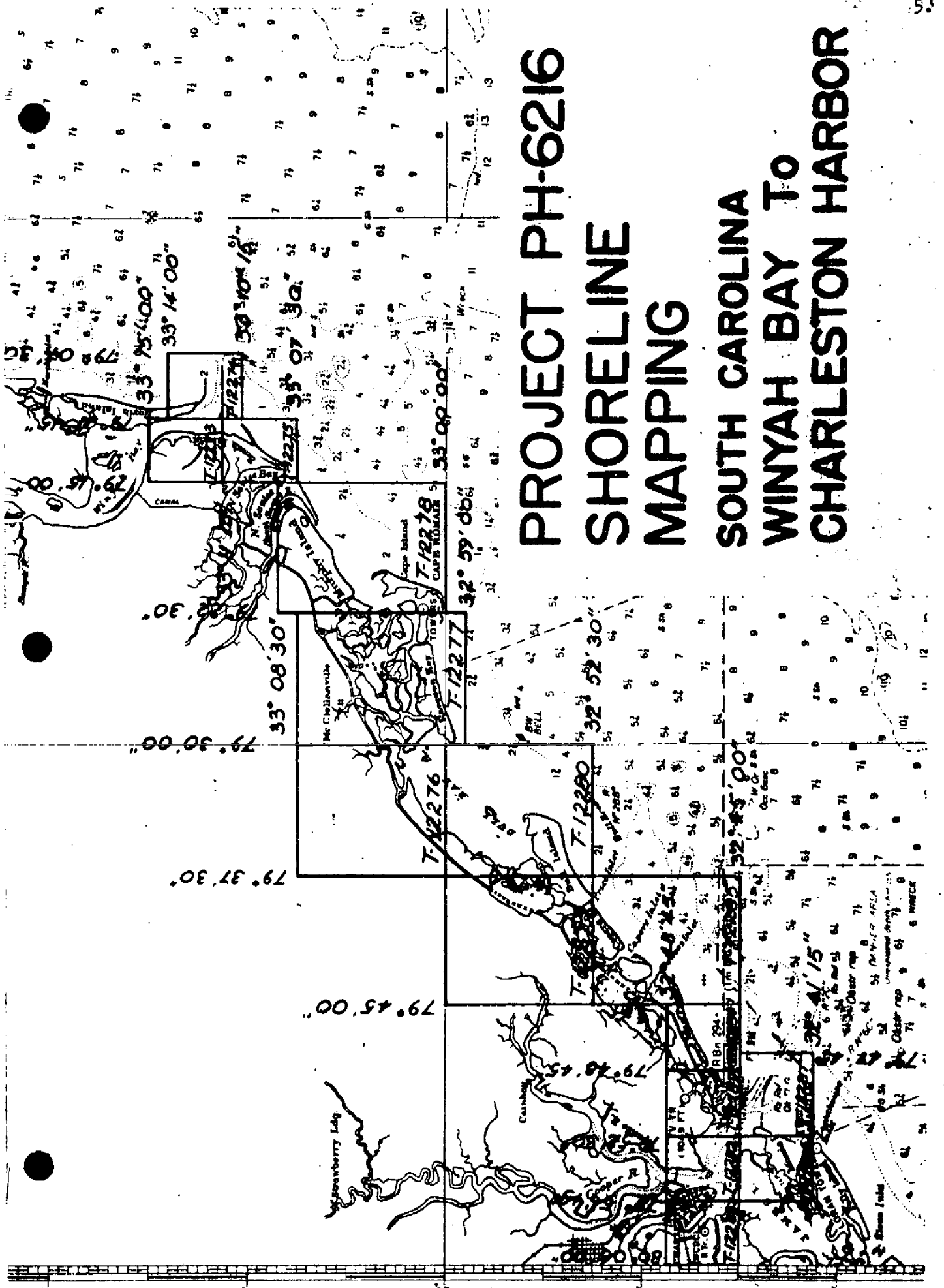
- * END 1934 is off the north limits of sheet.
- * The Cut C Range Lights positions are from form 567 submitted by the field and there are no recovery cards in this office.

COMPILATION RECORD

COMPLETION DATE

REMARKS

Manuscript complete pending field edit	January 1964	Superceded
Compilation complete	November 1964	



PROJECT PH-6216 SHORELINE MAPPING SOUTH CAROLINA WINYAH BAY TO CHARLESTON HARBOR

6

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12273

Shoreline manuscript T-12273 is one of nine 1:10,000 scale maps in Project 21058 (Winyah Bay to Charleston, South Carolina), which also contains six 1:20,000 scale manuscripts. The sketch on page 5 of this report shows the position of this manuscript in the project.

This is a stereoscopic instrument project in advance of hydrographic surveys of the area. 1:30,000 scale panchromatic photographs were taken with the S camera on September 1, 1962. The stereo bridge was run and adjusted to field identified control in the Washington Office. Compilation was done with the Kelsh Plotter. 1:10,000 scale ratio prints were processed and provided for photo hydro support.

The field operations preceding compilation included field inspection and identification of control to be used in the stereo bridge. The manuscripts were later field edited in conjunction with photo hydro support.

The compilation manuscript was a vinylite sheet 3 minutes and 45 seconds in latitude and longitude. The smooth manuscript was on cronaflex for review. One cronar positive and one cronar negative are furnished for registry and record after final review.

FIELD INSPECTION REPORT

Submitted with T-12277.

MAP T. 12273 PROJECT NO. Ph-6216 SCALE OF MAP 1:10,000 SCALE FACTOR

[illegible]

1 FT. = 3048006 METER

METER
J. Horick

DATE _____

4-18-63

CHECKED BY: *KRM*

DATE _____

COMM-DC-57843

8

[illegible]

COMPILATION REPORT

The Photogrammetric Plot Report is submitted with T-12283.

Items 31 thru 47 submitted with T-12275.

Approved & Forwarded


J. Bull, Norfolk Regional Officer


Russell J. Pate

T-12273

48. GEOGRAPHIC NAME LIST

Names, prepared by the Geographic Names Section, were submitted on the U. S. Corps of Engineers, Santee Point, S. C. Quadrangle.

CAT ISLAND

CAT ISLAND PLANTATION

LAGOON CREEK

MOSQUITO CREEK

MOSQUITO CREEK CANAL

MOTHER NORTON SHOAL

NORTH ISLAND

ROCKFISH CANAL

SANTEE NO. 1

SOUTH CAROLINA

SOUTH ISLAND

WINYAH BAY

GEOGRAPHIC NAMES

Ph 6216 (Winyah Bay - Charleston Harbor, S.C.)

T-12273 (Shoreline)

Cat Island.

Cat Island Plantation. *Not used, outside compilation limits*

Lagoon Creek.

Mosquito Creek.

Mosquito Creek Canal.

Mother Norton Shoal. *Not used, feature not delineated*

North Island.

Rockfish Canal.

Sand Island

Winyah Bay.

A. J. Wraight
A. J. Wraight
Geographic Names

T-12273

49. NOTES FOR THE HYDROGRAPHER

None. '

C&GS FORM 1002 (11-13-61)		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW T-10363 12273			
1. PROJECTION AND GRIDS RRW	2. TITLE RRW 4a Classification label unclass. ACR	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE ACR
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RRW	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 W.O.	11. DETAIL POINTS (Kelsh)
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE RRW	13. LOW-WATER LINE XX	14. ROCKS, SHOALS, ETC. XX	15. BRIDGES XX
16. AIDS TO NAVIGATION RRW	17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES RRW	19. OTHER ALONGSHORE CULTURAL FEATURES RRW
PHYSICAL FEATURES			
20. WATER FEATURES XX	21. NATURAL GROUND COVER RRW	22. PLANETABLE CONTOURS XX	
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES RRW
CULTURAL FEATURES			
27. ROADS RRW	28. BUILDINGS RRW	29. RAILROADS XX	30. OTHER CULTURAL FEATURES RRW
BOUNDARIES			
31. BOUNDARY LINES XX	32. PUBLIC LAND LINES XX		
MISCELLANEOUS			
33. GEOGRAPHIC NAMES RRW	34. JUNCTIONS RRW	35. LEGIBILITY OF THE MANUSCRIPT RRW	
36. DISCREPANCY OVERLAY XX	37. DESCRIPTIVE REPORT A part of T-12275 ACR	38. FIELD INSPECTION PHOTOGRAPHS RRW	39. FORMS RRW
40. REVIEWER R. R. Wagner by A. C. Rauck, Jr.		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr.	
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
COMPILER R. E. Smith, Jr.		SUPERVISOR Albert C. Rauck, Jr.	
43. REMARKS			

51. FIELD EDIT REPORT

None submitted.

Albert C. Rauck, Jr.
Albert C. Rauck, Jr.

NONFLOATING AIDS OR HANDMARKS FOR CHARTS

STRIKE OUT TWO

Tampa District Office January 18, 1964

I recommend that the following objects which have ~~(144/194)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(144/194)~~ the charts indicated.

The positions given have been checked after listing by

R. J. Pate

V. Paleh Sobieralski *Chief of Party.*

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

TIDE COMPUTATION

PROJECT NO. Ph-21058 T-12273

Time and date of exposure Sept 1 1962 Reference station Charles Lee S.C.

Date of field inspection

Subordinate station Garrettsville Light

Mean range 4.0
Ratio of ranges SPRING-4.7

	Time	
	h.	m.
High tide	9	24
Low tide	3	07
Duration of rise or fall	6 07	

	Height		Height x Ratio
	feet	of ranges	
High tide	5.2	1.1	4.1
Low tide	1.2	0.0	0.2
Range of tide			3.9

	Time	
	h.	m.
High tide at Ref. Sta.	9	09
Time difference	+ 0 15	
Corrected time at Subordinate station	9 24	

	Time	
	h.	m.
Low tide at Ref. Sta.	2	59
Time difference	+ 0 18	
Corrected time at Subordinate station	3 07	

Time H. T. or L. T. Required time Interval	h. m.	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	feet	Feature bares Stage of tide above MLW Feature above MLW	feet	Photo. No.
Time H. T. or L. T. Required time Interval	9 24 8 32 52	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	4.1 0.2 3.9	Feature bares Stage of tide above MLW Feature above MLW		425 1101A
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		

Computed by

Checked by

REVIEW REPORT T-12273
SHORELINE
AUGUST 1965

15.

61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6).

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-8230 (Santee Point, S. C. quad) 1:20,000 1942

An ozalid comparison print of T-12273 is submitted; the differences with T-8230 are noted in blue:

Sand Island has appeared since 1942, and about 300 meters of additional marsh has emerged in the south east portion of the map.

Both large ponds between Mosquito Creek Canal and Winyah Bay are new since 1942.

The shoreline of South Island has extended eastward in some areas as much as 75 meters. On the east side of Winyah Bay, where the shoreline has been relatively stable, small areas of recession are noted.

The position of the submerged cable across Winyah Bay is about 100 meters south of the 1942 position.

A pier, about 200 meters long, off South Island at latitude $33^{\circ} 13.75'$ does not appear in this survey.

There is a new cut-off from Mosquito Creek to Winyah Bay at latitude $33^{\circ} 14.45'$. Note the boathouse over the cut-off about 130 meters west of the entrance to Winyah Bay.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES

SANTEE POINT, S. Carolina C.of E. 1:31,680 1942

The Coast and Geodetic Survey's T-8230 was mapped for the Corps of Engineers, and the SANTEE POINT quadrangle is a 1:31,680 reproduction, published by the Corps of Engineers. The differences noted with T-8230 in Item 62 are, therefore, also common with this quadrangle.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

BOAT SHEET: PE 10-1-64A

1:10,000

No date

The boat sheet shoreline was taken from the Advance Manuscript of T-12273. There were no changes by the field editor and they are still in agreement.

The boat sheet shows two "dolphins" and a "pile" that were not noted during field inspection, or field edit, and could not be seen on the photographs.

One dolphin is noted at latitude $33^{\circ} 11.6'$,
longitude $79^{\circ} 11.3'$.

Another dolphin note is at latitude $33^{\circ} 12.13'$,
longitude $79^{\circ} 11.5'$

A pile is positioned at latitude $33^{\circ} 12.65'$,
longitude $79^{\circ} 11.94'$. *Another pile positioned at lat. $33^{\circ} 12.55'$, long. $79^{\circ} 11.99'$.*

65. COMPARISON WITH NAUTICAL CHARTS

Chart 787 1:40,000 3rd edition of October 26,
1964, corrected thru Notice to Mariners #50 of December 12, 1964.

The ozalid comparison print shows chart differences in red:

The rock shown on the chart at latitude $33^{\circ} 12.2'$
longitude $79^{\circ} 11.65'$ was not noted during field
inspection, and could not be seen during compilation.
The hydrographer did make a thorough search, see
his report for H-8794, and reported no rock at this
position, but did find a submerged log or snag at
latitude $33^{\circ} 12.4'$, longitude $79^{\circ} 11.63'$.

Some shoreline discrepancies exist, the largest are
at Sand Island, in the southeast part of the map;
and on South Island, at the south end and also at
latitude $33^{\circ} 13.7'$.

The pier in ruins shown at latitude $33^{\circ} 13.75'$
longitude $79^{\circ} 12.1'$ is not on this map. It was
not noted by the field inspector, or the field
editor. No sign of it appears on the photographs.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

No items are noted for future surveys.

Reviewed by

M. M. Slavney
M. M. Slavney

Approved by

J. Bull
J. Bull, Norfolk Regional Officer

Approved by

Charles Theurer
Charles Theurer
Chief, Cartographic Branch
Photogrammetric

L. F. Woodcock
for J. E. Waugh
Chief, Photogrammetry Division

Chief, Chart Division

Chief, Operations Division

NOTES TO VERIFIER
T-12273 Project 21058 (Ph-6216)
BOAT SHEET No. PE 10-1-64A

None.