

T-12275**T-12275****T-12275**

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No.	Office No. T-12275
LOCALITY	
State	SOUTH CAROLINA
General locality	WINYAH BAY TO CHARLESTON HARBOR
Locality	WINYAH BAY ENTRANCE TO SANTEE
POINT	
1962 - 1964	
CHIEF OF PARTY	
J. K. Wilson, Chief of Field 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 - 12275

PROJECT NO. (II):

21058

FIELD OFFICE (II):

Georgetown, South Carolina

CHIEF OF PARTY

Joseph K. Wilson

PHOTOGRAMMETRIC OFFICE (III):

Portsmouth, Virginia

OFFICER-IN-CHARGE

J. Bull

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

~~XXXXXX~~ 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):

GIBSON 1934

LAT.:

33° 10' 18".663(575.0m)

LONG.:

79° 12' 38".741"(1003.7m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

Y = 491,630.04

X = 2,547,473.71

STATE

South Carolina

ZONE

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 R. S. Tibbetts		DATE: December 1962 January 1963
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of Photography September 1, 1962 February 21, 1963		
PROJECTION AND GRIDS RULED BY (IV): A. Riley		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
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): J. L. Lisle		DATE April 1963
STEREOSCOPIC INSTRUMENT COMPILATION (III):	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 November 1963
SCRIBING BY (III): Reviewed by: B. Barge R. E. Smith, Jr.		DATE December 1964 December 1964
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. R. Wagner ✓		DATE April 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" and "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62 S 1110A	Sept. 1, 1962	08:35	Diapositives 1:30,000	4.6
62 S 1111A	" " "	"	"	4.6
63 W 3094	Feb. 21, 1963	11:27	"	-0.1
63 W 3095	" " "	"	"	-0.1

Predicted TIDE (III)

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	CHARLESTON		5.1	6.0
SUBORDINATE STATION:	North Santee River Inlet	HW LW	-0.6 0.0	4.5 5.3
SUBORDINATE STATION:				

WASHINGTON OFFICE REVIEW BY (IV): 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): 3*

RECOVERED: 3

IDENTIFIED: 2

NUMBER OF BM(S) SEARCHED FOR (II): (Tidal) 5 **

RECOVERED: 0

IDENTIFIED: 0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None

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

REMARKS:

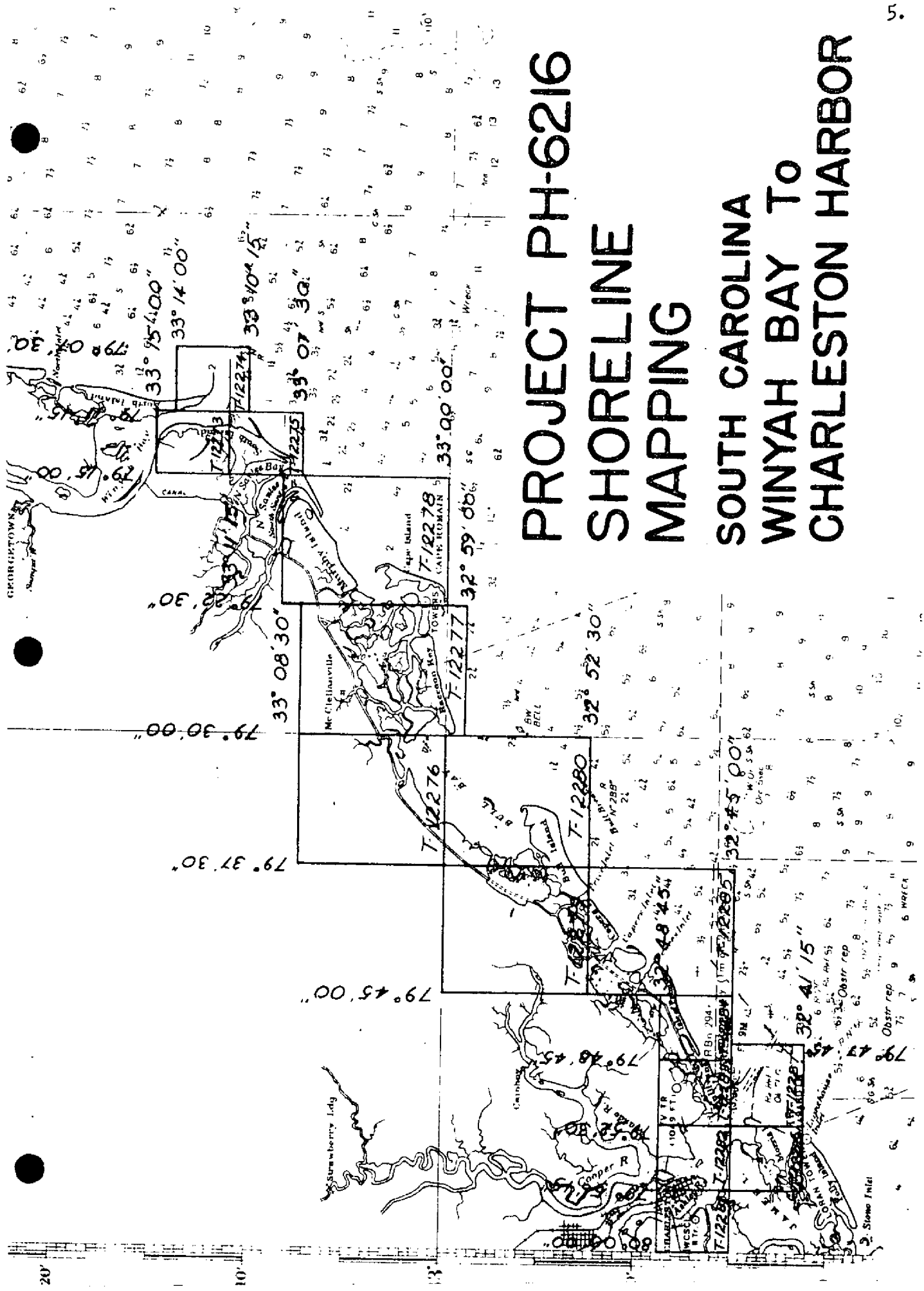
*Station CANE falls just West of sheet limits.
 **All Tidal Bench Marks fall just West of sheet limits.

COMPILATION RECORD

COMPLETION DATE

REMARKS

Manuscript complete pending field edit.	November 1963	Superceded
Alongshore area revised from field edit.	November 1964	



PROJECT PH-6216 SHORELINE MAPPING

SOUTH CAROLINA
WINYAH BAY TO
CHARLESTON HARBOR

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12275

Shoreline manuscript T-12275 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 & W cameras on September 1, 1962 and February 21, 1963. 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 *12475* PROJECT NO. *Ph-6216* SCALE OF MAP *1:10,000* SCALE FACTOR

[illegible]

1 FT. 3049006 METER
TESTED BY: J. HANICK
DATE 4-18-63
CHECKED BY: DRW
DATE MAR 6. 63
COMM. OC. 57843

COMPILATION REPORT

T-12273, T-12274, T-12275

The Photogrammetric Plot Report is submitted with T-12283.

31. DELINEATION

These sheets were delineated at a scale of 1:10,000 by the Kelsh Plotter from diapositives of 1:30,000 scale.

On sheet T-12275 the bridging photographs did not cover the area around the mouth of North Santee Bay. This area was compiled graphically using photographs 63-W-3094 and 3095 and the common bridge points from the Photogrammetric Plot.

The field inspection was adequate.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS & DRAINAGE

Contours inapplicable.

The drainage was shown as photographed.

35. SHORELINE & ALONGSHORE DETAILS

*not shown
w.m.s.* The ~~low water lines~~ and shallow areas were delineated from office interpretation of 1963 low water photography. Shoreline inspection was adequate.

36. OFFSHORE DETAILS

None.

37. LANDMARKS & AIDS

Forms 567 for landmarks and aids for T-12273 and T-12274 were submitted under the dates of December 18, 1963 and January 18, 1964. There are no landmarks or aids on T-12275.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

T-12273 is in agreement with T-12275 on the south, T-12274 on the east. Project limits are to the west. To the north with T-12302 Project 21059 at a scale 1:20,000.

T-12274 is in agreement with T-12273 and T-12275 on the west. Atlantic Ocean is on the east and south. To the north with T-12302 Project 21059 at a scale 1:20,000.

T-12275 is in agreement with T-12274 on the east, T-12273 on the north and joins T-12278 scale 1:20,000 on the west. Atlantic Ocean is to the south.

40. HORIZONTAL & VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. quadrangle, Santee Point, scale 1:31,680 dated 1942. Considerable change has taken place along the outer coast.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with C&GS Chart 787, scale 1:40,000 corrected to April 10, 1961.

Approximately the same differences are noted as on the quadrangle listed under Item 46.


ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Approved and Forwarded


J. Bull
Norfolk Regional Officer


Russell J. Pate

T-12275

48. GEOGRAPHIC NAME LIST

Names were taken from the U. S. Corps of Engineers Quadrangle Santee Point, S. C. Scale 1:31,680 prepared by the Geographic Name Section, Washington Office.

ATLANTIC OCEAN

BIRD BANK

BIRD BANK CREEK

CANE ISLAND

CEDAR ISLAND

MOSQUITO CREEK

MOSQUITO CREEK CANAL

NORTH SANTEE BAY

PINE RIDGE

PINE RIDGE POND

SAND CREEK BASIN

SANTEE POINT

SOUTH CAROLINA

SOUTH ISLAND

STURGEON ISLANDS

WHEELER BASIN

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

T-12275 (Shoreline)

Atlantic Ocean
Bird Bank
Bird Bank Creek
Cane Island
Cedar Island
Mosquito Creek Canal
North Santee Bay
Pine Ridge
Pine Ridge Pond
Sand Creek Basin
Sand Island
Santee Point
South Island
Sturgeon Islands
Wheeler Basin
~~Winyah Bay~~ *outside this map*

A. J. Wraight
A. J. Wraight
Geographic Branch

T-12275

49. NOTES FOR THE HYDROGRAPHER

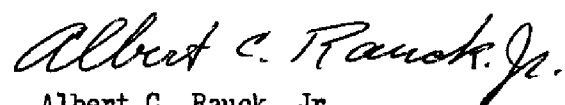
None.

C&GS FORM 1002 (11-13-61)		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW			
T-10263 12275			
1. PROJECTION AND GRIDS RRW	2. TITLE RRW 4a Classification label <u>unclass</u>	3. MANUSCRIPT NUMBERS ACR	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 RRW	14. ROCKS, SHOALS, ETC. RRW	15. BRIDGES XX
16. AIDS TO NAVIGATION XX	17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES RRW	19. OTHER ALONGSHORE CULTURAL FEATURES RRW
PHYSICAL FEATURES			
20. WATER FEATURES RRW	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 XX	29. RAILROADS XX	30. OTHER CULTURAL FEATURES RRW
BOUNDARIES			
31. BOUNDARY LINES XX	32. PUBLIC LAND LINES XX		
MISCELLANEOUS			
33. GEOGRAPHIC NAMES ACR	34. JUNCTIONS ACR	35. LEGIBILITY OF THE MANUSCRIPT RRW	
36. DISCREPANCY OVERLAY XX	37. DESCRIPTIVE REPORT ACR	38. FIELD INSPECTION PHOTOGRAPHS RRW	39. FORMS RRW
40. REVIEWER Robert R. Wagner Robert R. Wagner		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr. 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 Russell J. Pate Russell J. Pate		SUPERVISOR Albert C. Rauck, Jr. Albert C. Rauck, Jr.	
43. REMARKS			

T - 12275

51. FIELD EDIT REPORT

None submitted.


Albert C. Rauck, Jr.

TIDE COMPUTATION

PROJECT NO. Ph. 6216 T. 12275

Time and date of exposure 11/27 Feb 21 1963 Reference station Charlotte Harbor

Date of field inspection Feb 21 1963

Subordinate station Charlotte Harbor

Mean range 4.5
Spring 5.5
Ratio of ranges 1 - 0.1
2 - 0.0

	Time	
	h.	m.
High tide	05	25
Low tide	12	04
Duration of rise or fall	06	39

	Height	Height x Ratio of ranges
	feet	
High tide	5.2	4.6 ✓
Low tide	-0.2	-0.2 ✓
Range of tide	4.8	

	Time	
	h.	m.
High tide at Ref. Sta.	05	41
Time difference	-0	16
Corrected time at Subordinate station	05	25

	Time	
	h.	m.
Low tide at Ref. Sta.	12	04
Time difference	0	00
Corrected time at Subordinate station	12	04

	h.	m.		feet		feet	Photo. No.
Time H. T. or L. T. Required time Interval	12	04	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	-0.2	Feature bares Stage of tide above MLW		63W 3094
Time H. T. or L. T. Required time Interval	11	27	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.1	Feature bares Stage of tide above MLW		63W 3095
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	-0.1	Feature bares Stage of tide 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		
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		
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		
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		
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		

Computed by W. J. J.

Checked by W. J. J.

TIDE COMPUTATION

PROJECT NO. Ph. 6216 T. 12275

Time and date of exposure Sept 4, 1962 0135 Reference station Charleston Mean range 4.5
 Date of field inspection Jan 1963 Subordinate station North Santa River inlet Spring 5.3
 Ratio of ranges

	Time	
	h.	m.
High tide	08	53 ✓
Low tide	02	59 ✓
Duration of rise or fall	05	54 ✓

	Height		Height x Ratio
	feet	of ranges	
High tide	5.2	4.6 ✓	4.4 ✓
Low tide	0.2	0.2 ✓	
Range of tide			

	Time	
	h.	m.
High tide at Ref. Sta.	09	09 ✓
Time difference		16 ✓
Corrected time at Subordinate station	8	53 ✓

	Time	
	h.	m.
Low tide at Ref. Sta.	2	59 ✓
Time difference		000 ✓
Corrected time at Subordinate station	2	59 ✓

	h. m.	feet	feet	Photo. No.
Time H. T. or L. T. Required time Interval	8 53 8 35 18	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	4.6 00 4.6	62-5-11104 62-5-11114
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		

Computed by NLP Checked by W. H. L.

REVIEW REPORT T-12275
SHORELINE
August 1965

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-12275 is submitted; the differences with T-8230 are shown in blue:

The emergence of Sand Island, and of approximately 4 square miles of marsh in South Island. It is noted that the photographs used for field inspection and subsequent delineation were taken at 0835 on September 1, 1965, when the predicted stage of tide was 4.6 above m.l.w., or at about m.h.w.

The narrow sand island paralleling the South Island coast is also new since T-8230. It has been labeled "subject to frequent change" after examining the 1962, 1963 photography and the field edit.

The ocean shoreline of South Island, particularly at Santee Point, has moved as much as 390 meters.

The shoreline of Cedar Island has moved as much as 210 meters.

T-12275 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

T-8230 (Item 62) was mapped by the Coast and Geodetic Survey for the Corps of Engineers, and the SANTEE POINT quadrangle is the 1:31,680 reproduction by the Corps of Engineers. The differences noted between T-8230 and T-12275 are, therefore, common with this quadrangle.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

BOAT SHEETS:	PE 10-1-64A	1:10,000	No date
	WH 20-1-64 A&B	1:20,000	" "

The shoreline for the boat sheets was taken from the Advance Manuscript of T-12275 before field edit; which was done simultaneously with hydro support. Significant changes are the shoreline of the narrow island centered at latitude $33^{\circ} 10'$ longitude $79^{\circ} 11.9'$ and the disappearance of an islet at $33^{\circ} 09.75'$ longitude $79^{\circ} 12.25'$, which are noted on the Comparison Print in green.

The only low water line shown on this map is for the two small oyster bars near latitude $33^{\circ} 10.4'$ longitude $79^{\circ} 11.5'$.

65. COMPARISON WITH NAUTICAL CHARTS

Chart 787 1:40,000 3rd edition of October 26, 1964,
corrected thru Notice to Mariners No. 50 of December 12, 1964.

The ozalid Comparison Print shows the chart differences in red:

The narrow island centered at latitude $33^{\circ} 10'$
longitude $79^{\circ} 11.9'$ has shifted and changed size
and shape. . . .

The entire shorelines of Sand Island, North Island
and, to a lesser extent, of Cedar Island and Cane
Island show changes of up to 125 meters.

Wheeler Basin and Sand Creek Basin, shown as marsh
on this map, are ponds on the chart.

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. J. Woodward
for J. E. Waugh, Chief
Photogrammetry Division

Chief, Chart Division

Chief, Operations Division

NOTES TO VERIFIER
T-12275 Project 21058 (Ph-6216)
BOAT SHEET No. PE 10-1-64 A & WH 20-1-64 A&B

None.