

T-12280

T-12280

T-12280

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No.	Office No. T-12280
LOCALITY	
State	SOUTH CAROLINA
General locality	WINYAH BAY TO CHARLESTON HARBOR
Locality	BULL HARBOR
1962 ~ 1963	
CHIEF OF PARTY	
J. K. Wilson, Field Party	
J. C. Bull, Norfolk Regional Office	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD  
T -12280

PROJECT NO. (II):

(Ph 6216) 21058

FIELD OFFICE (III):

Georgetown, South Carolina

CHIEF OF PARTY

Joseph K. Wilson

PHOTOGRAMMETRIC OFFICE (III):

Tampa, Florida

OFFICER-IN-CHARGE

V. Ralph Sobieralski

INSTRUCTIONS DATED (II) (III):

Oct. 8, 1962 Field  
Nov. 5, 1962 Office  
Feb. 20, 1963 " Amendment I  
April 26, 1963 " " II  
Oct. 10, 1963 " Supplement I

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):

NA 1927

VERTICAL DATUM (III): MHW

~~MEAN SEA LEVEL~~ 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):

MIDDLE 1857

LAT.:

32° 55' 18."659 (574.8m)

LONG.:

79° 36' 17."923 (465.7m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

y = 398,855.39 Ft.

x = 2,428,064.78 Ft.

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.

## DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): M. A. Stewart - R. S. Tibbetts H. G. Lucas - J. K. Wilson		DATE: November 1962 February 1963
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Air photo compilation Date of photographs: Sept. 1, 1962 Feb. 21, 1963		
PROJECTION AND GRIDS RULED BY (IV):  A. Riley		DATE Feb. 1963
PROJECTION AND GRIDS CHECKED BY (IV):  LEB		DATE Feb. 1963
CONTROL PLOTTED BY (III):  J. Honick		DATE April 1963
CONTROL CHECKED BY (III):  V. P. Cackowski		DATE April 1963
<del>EXTENSION</del> STEREOSCOPIC CONTROL EXTENSION BY (III):  J. L. Lisle		DATE April 1963
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY I. I. Saperstein R. E. Smith	DATE April 1963
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): I. I. Saperstein " " Reviewed by W. H. Shearouse		DATE April 1963 April 1963
SCRIBING BY (III): P. Leikhim Reviewed by: W. H. Shearouse		DATE March 1964 April 1964
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):  I. I. Saperstein		DATE Sept. 1964
REMARKS: FIELD EDIT - 1963		

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Cameras "S" &amp; W

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62S1123A thru 62S1125A	Sept. 1, 1962	8:41 8:42	1:30,000 (Diapositives) "	4.9 "
62S1193A thru 62S1195A	"	9:47 9:48	"	4.8
62S1228A	"	10:12	"	4.6
63W3079	Feb. 21, 1963	11:18	"	-0.1

## Predicted TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Charleston		5.1	6.0
SUBORDINATE STATION: Wharf Creek entrance	HW	0.0	
	LW	0.0	5.1
SUBORDINATE STATION:			

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

DATE:  
6/65

PROOF EDIT BY (IV):

M. M. Slavney, Norfolk Regional Office

DATE:  
11/65

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III): 3 \*

RECOVERED:  
2IDENTIFIED:  
1

NUMBER OF BM(S) SEARCHED FOR (III): (Tidal) 3

RECOVERED:  
2IDENTIFIED  
1

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): none

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

## REMARKS:

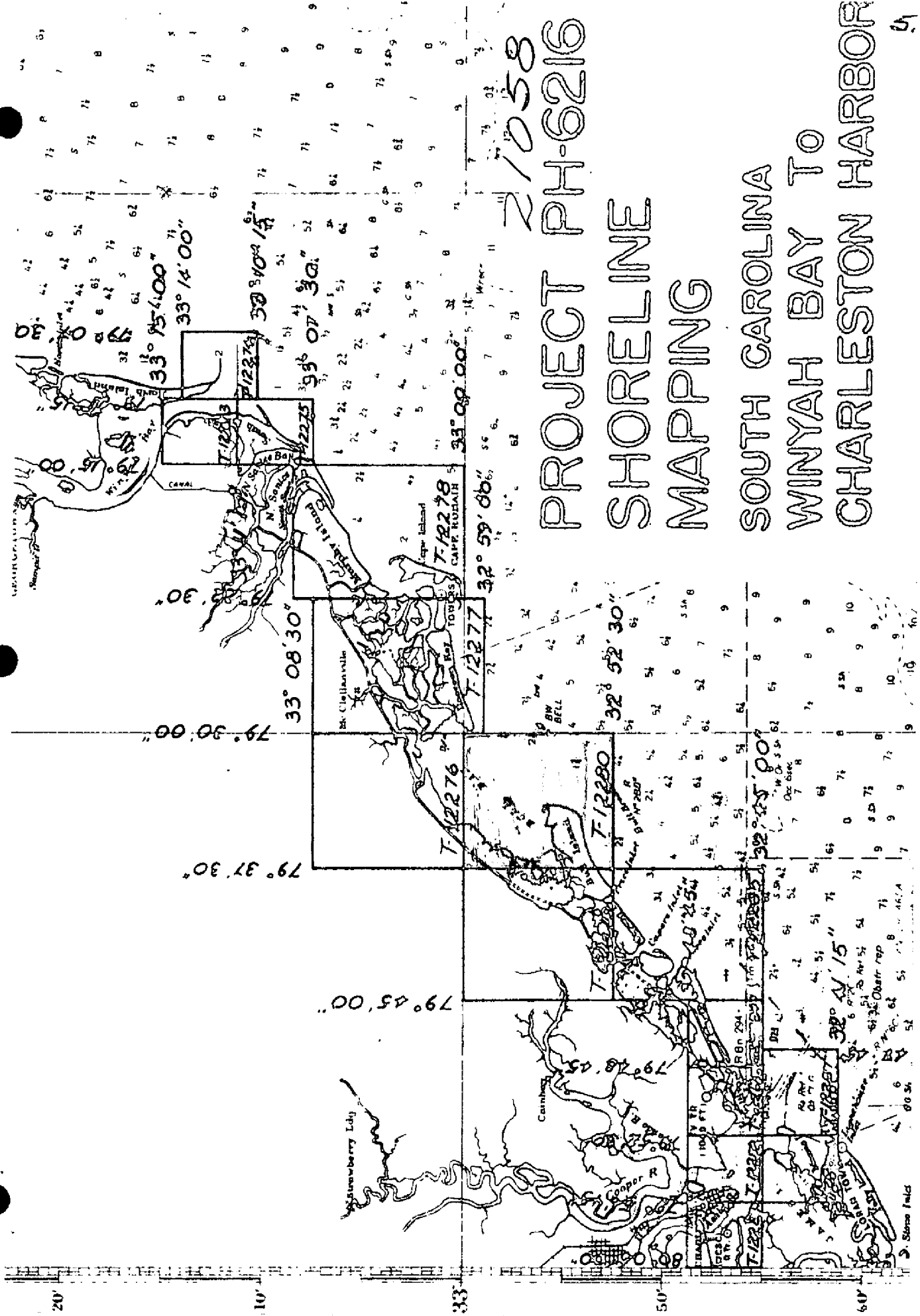
\*In addition to Triangulation Stations above, 3 new stations (BULL 2, and WILD, and Photo Picture Point) were established by Geodetic Party 601 in January 1963. All three of which were identified on the photographs.

## COMPILATION RECORD

## COMPLETION DATE

## REMARKS

Compilation complete pending field edit	April 1963	Superseded
Alongshore field edit applied; compilation complete.	Jan. 1964	



21058

# PROJECT PH-6216 SHORELINE MAPPING

## SOUTH CAROLINA WINYAH BAY TO CHARLESTON HARBOR

6.

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-12280

Shoreline manuscript T-12280 is one of six 1:20,000 scale maps in Project 21058 (Winyah Bay to Charleston, South Carolina), which also contains nine 1:10,000 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 W 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. 1:20,000 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 7.5 minutes 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

T-12280

Submitted with T-12277.



## AEROTRIANGULATION REPORT

T-12280

Submitted with T-12283.

SCALE FACTOR


1 FT. = 30.48005 METER	DATE 4-17-63	CHECKED BY: <i>Wm S. Harvey</i>	DATE 4/17/63	COMM. DC-57843
LISTED				
COMPUTED BY: <i>J. Hennick</i>				

10.

COMPILATION REPORT

T-12280

Items 31 thru 47 are submitted with the Descriptive Report for T-12285.

  
Approved and Forwarded  
John C. Bull  
Norfolk Regional Officer

  
M. M. Slavney

## 48. GEOGRAPHIC NAME LIST

Names, with the exceptions noted, were taken from the Final Name Sheet as prepared on the BULL ISLAND quadrangle by the Geographic Names Section, Washington Office.

ANDERSON CREEK	*MILLS ROAD
ATLANTIC OCEAN	MOCCASIN POND
BELVEDERE CREEK	NORTHEAST POINT
BIG POND	OLD FORT ROAD
BIRD BANKS	SALTPOND CREEK
BLIND CREEK	SEWEE CAMP
BULL BAY	SHEEP HEAD RIDGE ROAD
BULL CREEK	SOUTH CAROLINA
BULL HARBOR	SUMMERHOUSE CREEK
BULL ISLAND	SUMMERHOUSE ROAD
CAPE ROMAIN NATIONAL WILDLIFE REFUGE	TURKEY WALK TRAIL
DOAR ROAD	UPPER SUMMERHOUSE POND
INTRACOASTAL WATERWAY	VANDERHORST CREEK
JACK CREEK	VENNING CREEK
LIGHTHOUSE ROAD	** WHARF CREEK
LOWER SUMMERHOUSE POND	WHITE ISLAND
	WILSON CEMETERY

\*Field editor, on field copy quadrangle BULL ISLAND.

\*\* " " , on ozalid discrepancy print.

GEOGRAPHIC NAMES

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

T-12280 (Shoreline)

Andersonville Creek

Atlantic Ocean

Belvedere Creek

Bird Banks

Blind Creek

Bull Bay

Bull Creek

Bull Harbor

Bull Island

Big Pond

Doar Road

Intracoastal Waterway

Lower Summerhouse Pond

Lighthouse Road

Moccasin Pond

Northeast Point

Jack Creek

Cape Romain National Wildlife Refuge

Old Fort Road

Saltpond Creek

Seewee Camp

Sheep Head Ridge Road

Summerhouse Creek

Summerhouse Road

Turkey Walk Trail

Upper Summerhouse Pond

Vanderhorst Creek

Venning Creek

Wharf Creek

White Island

Wilson Cemetery

Mills Road

*A. J. Wraight*

A. J. Wraight  
Geographic Names

TO BE CHARTED  
TO BE REVISED  
TO BE DELETED

April 26 1963

I recommend that the following objects which have ~~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**

**I. I. Superatoin**

**V. Ralph Sobieralski** *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

T-12280

49. NOTES FOR THE HYDROGRAPHER

Two landmarks have been located and form 567 submitted.

A wreck shown on chart 1238 at approx. Lat.  $32^{\circ} 59.7'$ ,  
Long.  $79^{\circ} 32.2'$  could not be seen on the photographs and should  
be investigated by the hydrographic party.

FORM 182 (3-61)		PHOTOGRAMMETRIC OFFICE REVIEW T- 12280		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
1. PROJECTION AND GRIDS IIS		2. TITLE IIS		3. MANUSCRIPT NUMBERS IIS	
		4a Classification label <u>Unclassified</u>		4. MANUSCRIPT SIZE IIS	
CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY IIS		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) IIS		
	7. PHOTO HYDRO STATIONS XX	8. BENCH MARKS IIS	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT Bridge (W.O.)	
	11. DETAIL POINTS Kelsh				
ALONGSHORE AREAS (Nautical Chart Data)	12. SHORELINE IIS	13. LOW-WATER LINE XX	14. ROCKS, SHOALS, ETC. XX	15. BRIDGES XX	
	16. AIDS TO NAVIGATION XX	17. LANDMARKS IIS	18. OTHER ALONGSHORE PHYSICAL FEATURES IIS		
	19. OTHER ALONGSHORE CULTURAL FEATURES IIS				
PHYSICAL FEATURES	20. WATER FEATURES IIS		21. NATURAL GROUND COVER IIS		
	22. PLANETABLE CONTOURS XX		23. STEREOSCOPIC INSTRUMENT CONTOURS XX		
	24. CONTOURS IN GENERAL XX		25. SPOT ELEVATIONS XX		
	26. OTHER PHYSICAL FEATURES XX				
CULTURAL FEATURES	27. ROADS IIS	28. BUILDINGS XX	29. RAILROADS XX		
	30. OTHER CULTURAL FEATURES IIS				
BOUNDARIES	31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX		
MISCEL- LANEOUS	33. GEOGRAPHIC NAMES IIS			34. JUNCTIONS IIS	
	35. LEGIBILITY OF THE MANUSCRIPT IIS	36. DISCREPANCY OVERLAY XX		37. DESCRIPTIVE REPORT IIS	
	38. FIELD INSPECTION PHOTOGRAPHS IIS		39. FORMS IIS		
	SIGNATURE <i>I. I. Saperstein</i>		SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT <i>M. M. Slavney</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>V. P. Cackowski</i>			SIGNATURE OF SUPERVISOR <i>M. M. Slavney</i>		

USE REVERSE SIDE FOR REMARKS

USCOMM-DC 25353-P61



## FIELD EDIT REPORT

T-12280

A field edit report was not submitted.

An ozalid discrepancy print was furnished the field editor; all questions were answered, and shoreline changes in the island "Bird Banks" were shown.

New roads and changes in road classification were shown on cronapaque ratio prints 63-W-3079 thru 3081.

*W. M. Slattery*

## TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

PROJECT NO. PH. T

Time and date of exposure FEB. 21, 1963  
@ 1110

Reference station

CHARLESTON, S.C.

Mean range

5.1'

Date of field inspection

Subordinate station

WHAFF CREEK FATH.

Ratio of ranges

	Time	
	h.	m.
High tide	5	48
Low tide	11	52
Duration of rise or fall	6:04	

	Height		Height x Ratio of ranges
	feet		
High tide	5.2	✓	0.0 = 5.2
Low tide	-0.2	✓	0.0 = -0.2
Range of tide	5.4		5.4

	Time	
	h.	m.
High tide at Ref. Sta.	5	48
Time difference	+	0:05
Corrected time at Subordinate station	5	46

	Time	
	h.	m.
Low tide at Ref. Sta.	12	04
Time difference	-	0:12
Corrected time at Subordinate station	11	52

	h.	m.	feet	feet	Photo. No.
Time <del>H. T.</del> or L. T.	11	52			
Required time	11	18	- 0.2	Feature bares	
Interval	0	34	+ 0.1	Stage of tide above MLW	
			- 0.1	Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	

COMM. DC-57846

Computed by

P. C. R.

Checked by

J. M. S.

61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6).

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-5390	1:10,000 scale	1934
T-5391	" "	"
T-5392	" "	" (200 meters of shoreline)

An ozalid comparison print of T-12280 is submitted with the differences noted:

The combined registered surveys cover all of this map excepting the island BIRD BANKS. The size and position of this island is subject to frequent change, and no registered coverage has been provided.

The Atlantic shoreline of Bull Island has had considerable change. The southern coastline has receded up to 110 meters; the 1942 description of triangulation station BOWER 1942 says "the station is about 85 meters northwest of a point where vegetation and beach meet". The station now is only about 25 meters northwest of high water line as mapped. Neither the original description nor the 1963 recovery of BOWER 1942 gave a distance to the mean high water line.

The eastern coastline of Bull Island appears to have shifted westward from about 10 meters at the south end to about 220 meters at Northeast Point. The largest change is at y coordinate - 400,000 feet, where the shoreline has receded about 280 meters; and at Northeast Point the entire land area appears to have shifted westward about 220 meters.

The wreck on T-5390, at latitude  $32^{\circ} 59.7'$  longitude  $79^{\circ} 32.2'$ , which could not be seen during compilation, has been recommended for deletion by the hydro party according to the field editor.

The shoreline at Bull Harbor and Bull Bay has in some areas remained the same, whereas in some areas it has receded about 100 meters.

The Intracoastal Waterway has been widened to about double its 1934 width of 50 meters to about 100 meters.

The size and shape of White Island has changed considerably, the area now is about twice as large.

See Item 65 for information on the "wreck" at latitude  $32^{\circ} 59.7'$  longitude  $79^{\circ} 32.2'$ .

There is now an inlet (ferry slip) called Wharf Creek in the south bank of Summerhouse Creek.

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

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63. COMPARISON WITH MAPS OF OTHER AGENCIES

U. S. G. S. - BULL ISLAND, SOUTH CAROLINA      1:24,000      1959

There have been obvious changes in the size and shape of White Island, Bird Banks, and at Northeast Point of Bull Island.

At the junction of this map with T-12279, at longitude  $79^{\circ} 37' 30''$  at latitude  $32^{\circ} 58.7'$  and latitude  $32^{\circ} 58.9'$ , on the north side of the Intracoastal Waterway, the field inspector indicated "Ma" and an unindented shoreline. The quadrangle shows two water indentions off the Intracoastal Waterway about 300 ft. wide and several hundred feet long.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Boat sheets:	HFP-20-1-63	1:20,000	No date
	" 20-1-63 (overlay)	"	"
	PE 20-3-63	"	"

The portions of the boat sheets covering this survey are in agreement with a minor variance at Northeast Point on Bull Island.

65. COMPARISON WITH NAUTICAL CHARTS

Chart 837 S.C., 1:40,000 scale, 1st edition corrected thru Notice to Mariners No. 40 of October 3, 1964.

Chart 1238, 1:80,000 scale, 4th edition, May 10, 1965. Chart 837 S.C. did not cover all the area on this map, therefore, Chart 1238 has also been used.

Both charts show the Intracoastal Waterway too narrow, by 30 to 50 meters.

Chart 837 S.C. shows no name for White Island, and shows Bird Banks as Bird Island.

The wreck at latitude  $32^{\circ} 59'.7$  longitude  $79^{\circ} 32'.2$  on both charts has been recommended for deletion by the Hydro party according to the field editor.

Neither the field inspector or the field editor indicated any rocks in the vicinity of White Island (lat.  $32^{\circ} 59'.6$ , long.  $79^{\circ} 33'$  and lat.  $32^{\circ} 59'.8$  long.  $79^{\circ} 33'.1$ ), on both charts.

Both charts show Andersonville Creek as Anderson Creek.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Future surveys should verify the existence of the rocks referred to in Item 65.

Reviewed by

M. M. Slavney  
M. M. Slavney

Approved by

J. Bull  
J. Bull  
Norfolk Regional Officer

Approved by

Charles H. Hemen SGA  
Chief, Cartographic Branch  
Photogrammetric

L. F. Woodcock  
Chief, Photogrammetry Division

Chief, Chart Division

Chief, Operations Division

NOTES TO VERIFIER  
T-12280 Project 21058 (Ph-6216)  
BOAT SHEET No. HFP - 20-1-63

Nautical charts 8358C and 1238 show rock symbols at latitude  $32^{\circ} 59'.6$ , longitude  $79^{\circ} 33'$  and latitude  $32^{\circ} 59'.8$ , longitude  $79^{\circ} 33'.1$ . Neither the field inspector nor the field editor made any mention of rocks in this vicinity. Perhaps the sounding records may furnish some information.

The boat sheets shorelines are in agreement with this map excepting a minor variance at Northeast Point on Bull Island.