

**T-12276****T-12276****T-12276**

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No.	Office No. T-12276
LOCALITY	
State	SOUTH CAROLINA
General locality	WINYAH BAY TO CHARLESTON HARBOR
Locality	HARBOR RIVER
1962 - 1963	
CHIEF OF PARTY	
J. K. Wilson, Field Party	
J. C. Bull, Norfolk Regional Office	
LIBRARY & ARCHIVES	
DATE	

## DESCRIPTIVE REPORT - DATA RECORD

T - 12276

PROJECT NO. (II):

21058 (Ph-6216)

FIELD OFFICE (II):

Georgetown, South Carolina

CHIEF OF PARTY

Joseph K. Wilson

PHOTOGRAMMETRIC OFFICE (III):

Tampa, Florida

OFFICER-IN-CHARGE

V. R. Sobieralski

INSTRUCTIONS DATED (II) (III):

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

METHOD OF COMPILATION (III):

Kelsh plotter

MANUSCRIPT SCALE (III):

1:20,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000 pantagraphed 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

~~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):

GRAHAM, 1934

LAT.:

33° 01' 18" 096 (557.5m)

LONG.:

79° 34' 58" 203 (1510.5 m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 635,268.20 ft.

X = 2,434,370.09 ft.

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.

## DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): M. A. Stewart J. D. Shea		DATE:  January 1963
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Air photo compilation Date of photographs: Sept. 1, 1962		
PROJECTION AND GRIDS RULED BY (IV):  A. Riley		DATE  Feb. 1963
PROJECTION AND GRIDS CHECKED BY (IV):  L.F.B.		DATE  Feb. 1963
CONTROL PLOTTED BY (III):  V. P. Cackowski		DATE  April 1963
CONTROL CHECKED BY (III):  R. R. Wagner		DATE  April 1963
<del>MANUSCRIPT</del> STEREOSCOPIC CONTROL EXTENSION BY (III):  J. L. Lisle		DATE  April 1963
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY  I. I. Saperstein	DATE  May 1963
	CONTOURS  Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): Reviewed by: I. I. Saperstein W. H. Shearouse		DATE May 1963 May 1963
SCRIBING BY (III): P. Leikhim R. R. Wagner		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):

Camera S

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62-S-1229A thru 1233A	9/1/62	10:12 to 10:14	1:30,000 (Diapositives)	4.7

Predicted

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Charleston		5.1	6.0
SUBORDINATE STATION: Harbor River Entrance	H.W. -0.2 L.W. 0.0	4.9	5.8
SUBORDINATE STATION:			

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

DATE:

May 1965

PROOF EDIT BY (IV):

DATE:

Nov. 1965

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 7\*

RECOVERED:

6

IDENTIFIED:

2

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

RECOVERED:

3

IDENTIFIED:

1

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

1

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

\*An additional station "SHELLMORE OYSTER FACTORY EAST GABLE, 1934" was recovered during Field Edit and Hydrography; however, the present building does not fit the plotted position and the station should probably be classified "Destroyed". A note to this effect was added to the Form 526.

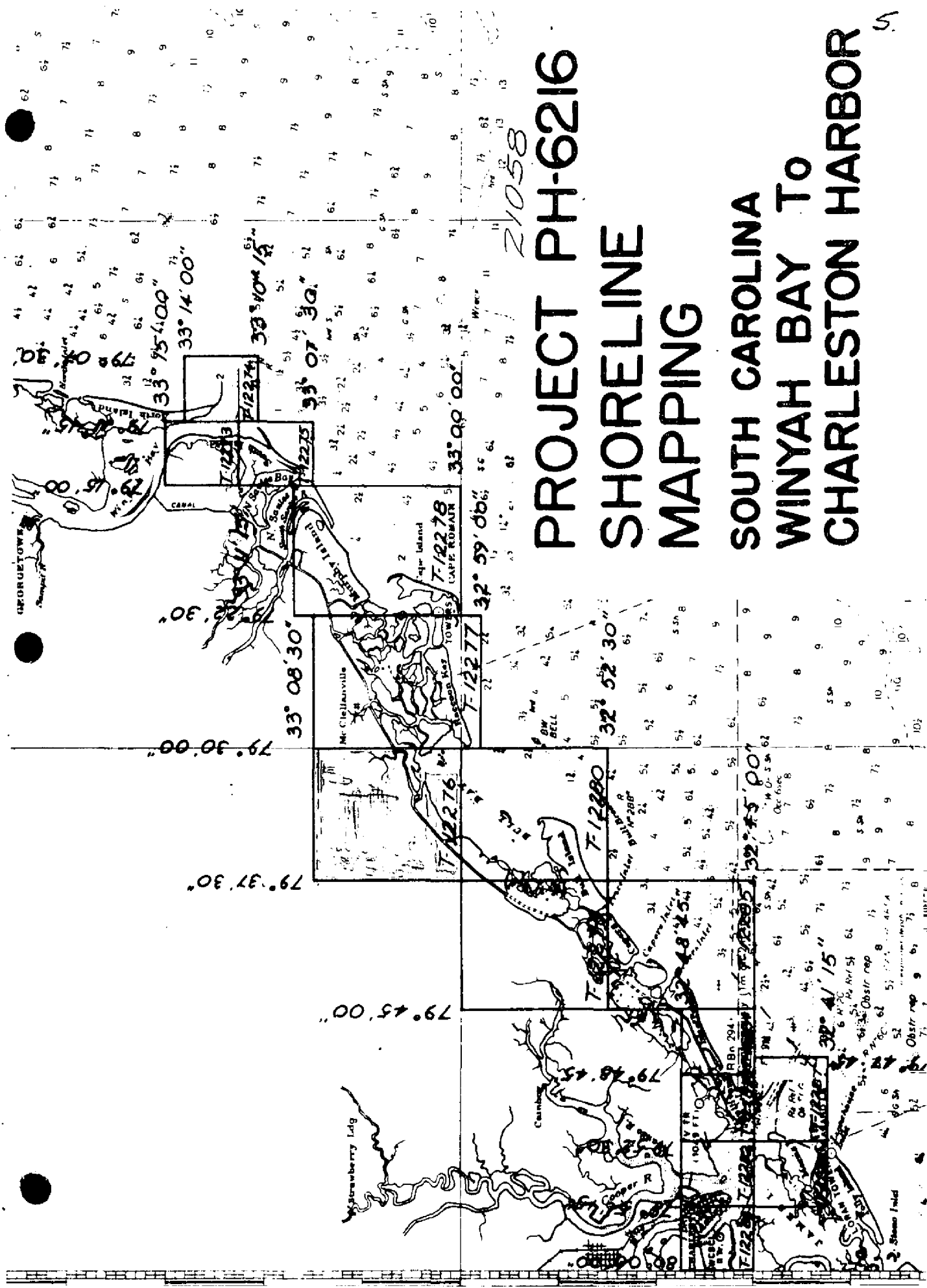
T-12276

## COMPILATION RECORD

## COMPLETION DATE

## REMARKS

Alongshore area for hydrography	May 1963	superseded
Alongshore field edit applied. Compilation completed.	January 1964	



# PROJECT PH-6216

## SHORELINE

## MAPPING

### SOUTH CAROLINA

### WINYAH BAY TO

### CHARLESTON HARBOR

21058

## SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-12276

Shoreline manuscript T-12276 is one of six 1:20,000 scale maps in Project 21058 (Winyah Bay, South Carolina to Charleston), which also contains nine 1:10,000 maps. The sketch on page 5 of this report shows the position of this map in the project. This is a Kelsh project in advance of hydrographic surveys which are being made in the same area. The field operations preceding compilation included recovery and identification of horizontal control, and field inspections. The Kelsh compilation was at 1:20,000 scale from which a cronar negative showing shoreline, alongshore features and shoreline pass points was furnished for preparation of the hydrographer's boat sheet. 1:30,000 scale photographs taken September 1, 1962 were used for compilation. Ratio (1:20,000 scale) photographs were subsequently provided for hydro support and field edit purposes. The compilation manuscript is a vinylite sheet  $7\frac{1}{2}$  minutes in latitude and longitude from which the smooth map was scribed and reproduced on cronaflex for photogrammetric office review. One cronar positive and one cronar negative are provided for record and registry after final review.

FIELD INSPECTION REPORT

Submitted with T-12277



T-12276

The Aerotriangulation Report is submitted with T-12283.

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
DESCRIPTIVE REPORT  
CONTROL RECORD

MAP T.	PROJECT NO.	SCALE OF MAP	SCALE FACTOR
12276	Ph-6216	1:20,000	

[illegible]

1 FT. = 3048006 METER

Horick

DATE \_\_\_\_\_

4-18-63

CHECKED BY:

*R. M. Adams*

DATE 4/29/63

COMM-DC-57843

COMPILATION REPORT  
T-12276

Items 31 thru 47 are submitted with the Descriptive Report  
for T-12277.

*M. M. Slattery*  
for I. I. Saperstein  
Cartographer (Photo)

APPROVED AND FORWARDED  
*J. C. Bull*  
John C. Bull  
Norfolk Regional Officer

48. Geographic Name List

Names were taken from the Final Name Sheet as prepared on the  
AWENDAW quadrangle by the Geographic Names Section, Washington Office.

AWENDAW CREEK	MATHEWS CUT*
BUCK HALL	MORANTS POINT
← BULK HALL RECREATION AREA	
BULL BAY	OLD GEORGETOWN ROAD
BULL RIVER	PINELAND
CAPE ROMAIN NATIONAL WILDLIFE REFUGE	SALTPOND CREEK
DOAR ROAD	SANDY POINT CREEK
DOE HALL CREEK	SOUTH CAROLINA
GRAHAM CREEK	TIBWIN
HARBOR RIVER	TIBWIN CREEK
INTRACOASTAL WATERWAY	TIBWIN PLANTATION
LAUREL HILL PLANTATION	U. S. 17
LONG CREEK	U. S. 701
	WHITE BANKS

\*Name taken from Chart 837 SC & 1238

GEOGRAPHIC NAMES

PhP6216 (Winyah Bay - Charleston Harbor, S.C.)

T-12276 (Shoreline)

Awendaw Creek

Tibwin Plantation

\* Awendaw

Tibwin Village

Bull Bay

U.S. 17 & U.S. 701

Bull River

White Banks

Buck Hall

Buck Hall Recreation Area

Cape Romain National Wildlife Refuge

Doe Hall Creek

Doar Road

Graham Creek

Intracoastal Waterway

Harbor River

Laurel Hill Plantation

Long Creek

Mathews Cut

Morants Point

Old Georgetown Road

Pineland

Saltpond Creek

Sandy Point Creek

Tibwin Creek

South Carolina

*A. J. Wraight*

A. J. Wraight  
Geographic Names

Rechecked & O.K.  
7/2/65

\* *Beyond delineation limits*  
7/2/65

49. NOTES FOR THE HYDROGRAPHER

(a) A wreck shown on charts 837 and 1238 at approximate Lat.  $33^{\circ}01.7'$  Long.  $79^{\circ}31.8'$  could not be seen on the photographs and should be investigated by the hydrographer.

(b) Form 526 has not been submitted by the field inspector for triangulation station "SHELLMORE OYSTER FACTORY E. GABLE, 1934". It will be noted that the field inspector identified the "NW Gable, oyster packing house", as a landmark. The landmark shown on charts 837 and 1238 is probably the triangulation position. It is necessary to show only one (either) gable as a landmark. This matter has been called to the attention of the field editor.

(c) During the review of the manuscript it was noted that a discrepancy existed in the date of triangulation station "LIVE OAK 2". It is listed variously in the geographic positions, plane coordinate positions and in the description as "LIVE OAK 2 1902" and "LIVE OAK 2 1917". This station was established in 1902 and remarked with a disk in 1917. It has been shown on the manuscript as "LIVE OAK 2 1902-1917".

(d) Positions for Winyah Bay - Charleston Harbor Daybeacons 55, 57, 59 could not be determined because of poor intersections. This was referred to the field editor for clarification.

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEYNONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTSTO BE CHARTED  
~~REMOVED~~  
~~REMOVED~~

STRIKE OUT TWO

January 22, 19 64

Tampa District Office

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

The positions given have been checked after listing by

I. I. Saperstein

V. Ralph Sobieralski Chief of Party.

STATE SOUTH CAROLINA			POSITION										METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE *		LONGITUDE *				DATUM									
			°	'	"	°	'	"										
										D.M. METERS	D.P. METERS							
WINYAH BAY - CHARLESTON HARBOR																		
LIGHT 40	"		33	03	32.69 1007	79	30	01.39 36	N.A. 1927		Photo	Dec.18 1962					837	
DAYBN 42	"		33	03	24.57 757	79	30	19.62 509	"		"	Oct. * 1963					"	
LIGHT 43	"		33	03	0.19 6	79	31	04.78 124	"		"	Jan.21 1963					"	
DAYBN 44	"		33	02	53.27 1641	79	31	21.54 559	"		"	"					"	
LIGHT 45	"		33	02	39.51 1217	79	31	44.75 1161	"		"	Dec.19 1962					"	
LIGHT 46	"		33	02	29.83 919	79	32	09.63 250	"		"	"					"	
DAYBN 47	"		33	02	19.83 611	79	32	29.60 768	"		"	Oct. * 1963					"	
LIGHT 48	"		33	02	23.96 738	79	32	37.58 975	"		"	Jan.21 1963					"	
DAYBN 49	"		33	02	27.79 856	79	32	59.16 1535	"		"	Oct. * 1963					"	
LIGHT 50	"		33	02	31.81 980	79	33	09.64 250	"		"	Dec.19 1962					"	
DAYBN 51	"		33	02	20.13 620	79	33	31.06 806	"		"	"					"	
DAYBN 55	"		33	01	58.75 1810	79	33	59.15 1535	"		"	Oct. * 1963					"	
DAYBN 57	"		33	01	43.04 1326	79	34	18.50 480	"		"	"					"	

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



U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED  
TO BE REWIND  
TO BE REWIND

STRIKE OUT TWO

January 22, 1964

**Tampa District Office**

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

The positions given have been checked after listing by

**I. I. Saperstein**

**V. Ralph Sobieralski** *Chief of Party.*

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 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.



U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEYTO BE CHARTED  
TO BE REVISED  
~~TO BE DELETED~~

STRIKE OUT TWO

~~NONFLOATING AID~~ LANDMARKS FOR CHARTS

Tampa District Office

January 22 19 64

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

The positions given have been checked after listing by

I. I. Saperstein

V. Ralph Sobieralski

Chief of Party

SOUTH CAROLINA				POSITION				METHOD OF LOCATION AND SURVEY PHOTO	DATE OF LOCATION	HARBOR CHART	OFFSHORE CHART	INTRACOASTAL CHARTS AFFECTED
STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE *		LONGITUDE *						
				D. M. METERS	"	D. M. METERS	"					
	OTYSTER PACKING HOUSE	W. W. Gable of Oyster Packing House. ht = 25 (30)		33 02	25.22	79 33	28.75	M.A. 1927	Dec. 10 1962	x		837 1238

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

FORM 182 (3-61)		PHOTOGRAMMETRIC OFFICE REVIEW		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
50		T- 12276			
1. PROJECTION AND GRIDS WHS		2. TITLE WHS		3. MANUSCRIPT NUMBERS WHS	4. MANUSCRIPT SIZE WHS
CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY WHS		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) WHS		
	7. PHOTO HYDRO STATIONS XX	8. BENCH MARKS WHS	9. PLOTTING OF SEXTANT FIXES ?	10. PHOTOGRAMMETRIC PLOT REPORT Bridge (W.O.)	
	11. DETAIL POINTS Kelsh (I.I.S.)				
ALONGSHORE AREAS (Nautical Chart Data)	12. SHORELINE WHS	13. LOW-WATER LINE WHS	14. ROCKS, SHOALS, ETC. XX	15. BRIDGES WHS	
	16. AIDS TO NAVIGATION WHS	17. LANDMARKS WHS	18. OTHER ALONGSHORE PHYSICAL FEATURES WHS		
	19. OTHER ALONGSHORE CULTURAL FEATURES WHS				
PHYSICAL FEATURES	20. WATER FEATURES WHS		21. NATURAL GROUND COVER WHS		
	22. PLANETABLE CONTOURS XX		23. STEREOSCOPIC INSTRUMENT CONTOURS XX		
	24. CONTOURS IN GENERAL XX		25. SPOT ELEVATIONS XX		
	26. OTHER PHYSICAL FEATURES WHS				
CULTURAL FEATURES	27. ROADS WHS	28. BUILDINGS XX	29. RAILROADS XX		
	30. OTHER CULTURAL FEATURES WHS				
BOUNDARIES	31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX		
MISCELLANEOUS	33. GEOGRAPHIC NAMES WHS		34. JUNCTIONS WHS		
	35. LEGIBILITY OF THE MANUSCRIPT WHS	36. DISCREPANCY OVERLAY XX		37. DESCRIPTIVE REPORT	
	38. FIELD INSPECTION PHOTOGRAPHS WHS		39. FORMS WHS		
	SIGNATURE OF REVIEWER for William H. Shearouse		SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT Milton M. Slavney		
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 for I. I. Saperstein			SIGNATURE OF SUPERVISOR M. M. Slavney		

Field Edit Report - T-12276

No Field Edit Report has been received.

Questions referred to the field editor on the ozalid Discrepancy Print were satisfactorily resolved during field edit in October 1963.

1. Road and trail classifications.
2. New "cuts" for location of the daybeacons in the Intracoastal Waterway gave tight intersections.
3. Form 526's submitted for "MORE, 1934" and "SHELLMORE OYSTER FACTORY EAST GABLE 1934." The latter, which was "recovered as described" by the field editor is not shown on T-12276; because the plotted position falls in an open area on the photograph. It is believed the original building was destroyed and a new one built in a new location. An appropriate note has been made on the form 526.

*W. M. S.*

REVIEW REPORT T-12276  
SHORELINE  
MAY, 1965

61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6).

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-8237	1:20,000	1943
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An ozalid comparison print is submitted with the differences noted:

The Intracoastal Waterway has been widened.

The wreck at the entrance to Harbor River, latitude 33° 01.7 longitude 79° 31.8 was recommended for deletion, see Item 65.

Some shoreline changes are evident at the entrance to Graham Creek and in the marsh islands "White Banks".

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A.M.S.	AWENDAW, SOUTH CAROLINA	1:25,000	1943
U.S.G.S.	" " "	1:24,000	"

T-8237 (Item 62) was originally compiled by the Coast and Geodetic Survey for the Corps of Engineers, which printed it at 1:25,000 scale; the U.S.G.S. quadrangle, 1:24,000 scale, is the civil edition of the same map. The same differences with T-12276 exist that are noted in Item 62.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet HFP 20-1-63, 1:20,000 scale, no date.

The boat sheet is in agreement with this manuscript with the exceptions of two minor shoreline areas:

One at a small drain at latitude 33° 01'.25 longitude 79° 33'.55; and another on the shoreline at latitude 33° 02'.33 longitude 79° 30'.73.

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65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with:

Chart 837 SC, 1:40,000 scale, 1st edition corrected through Notice to Mariners No. 40, October 3, 1964.

Chart 1238, 1:80,000 scale, 4th edition, May 10, 1965 was used for the area not covered by Chart 837 SC.

The manuscript indicates the Intracoastal Waterway has been widened, by as much as approximately 35 meters when compared with Charts 837 SC and 1238.

The manuscript shows several small piers, a boat ramp, and a marine railway on the north shore of the Intracoastal Waterway between longitude 79° 33' and 79° 34' that do not appear on the charts.

Daybeacon 59, located by the field party in October 1963, is on the manuscript but not on Chart 837 SC; neither is it listed in the 1965 Light List. A complete file of Notice to Mariners, in which this deletion is probably noted, is not now available in this office.


The wreck at the entrance to the Harbor River at latitude 33° 01'.7 longitude 79° 31'.8, shown on Charts 837 SC and 1238, had been called to the attention of the hydrographer, per Item 49 of this report. The field edit ozalid included a statement that the hydrographer is "recommending that the wreck at the entrance to Harbor River be deleted".

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

No items are noted for future surveys.

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

Reviewed by

  
M. M. Slavney

Approved by

  
J. Bull, Norfolk Regional Officer

Approved by

  
Chief, Cartographic Branch  
Photogrammetric ABB

  
Chief, Photogrammetry Division

\_\_\_\_\_  
Chief, Chart Division

\_\_\_\_\_  
Chief, Operations Division



NOTES TO VERIFIER  
T-12276 Project 21058 (Ph-6216)  
BOAT SHEET NO. HFP 20-1-63  
MAY 1965

The boat sheet is in agreement with this map with the exception of two minor shoreline areas:

One a small drain at latitude  $33^{\circ} 01'.25$   
longitude  $79^{\circ} 33'.55$  and another on the  
shoreline at latitude  $33^{\circ} 02'.33$  longitude  
 $79^{\circ} 30'.73$ .