

T-12278

T-12278

T-12278

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No.	Office No. T-12278
LOCALITY	
State	SOUTH CAROLINA
General locality	WINYAH BAY TO CHARLESTON HARBOR
Locality	CAPE ROMAIN HARBOR
1962 - 1964	
CHIEF OF PARTY	
Joseph K. Wilson, Chief of Field Party	
J. Bull, Norfolk Regional Office	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

T-12278

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):

Field: October 8, 1962
Office: November 5, 1962
Amendment 1: February 20, 1963
Amendment 2: April 26, 1963

METHOD OF COMPILATION (III):

Kelsh Plotter

MANUSCRIPT SCALE (III):

1:20,000

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

~~MEAN LOW WATER~~ 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):

Alligator 2, 1933

LAT.:

33° 07' 06".232 (1920m) ✓

LONG.:

79° 20' 38".170 (989.6m) ✓

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

y = 471,517.17 ft. ✓

x = 2,507,034.35 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.

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 J. D. Shea - H. G. Lucas		DATE: January 1963 February 1963
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of Photography: September 1, 1962 and February 21, 1963		
PROJECTION AND GRIDS RULED BY (IV): A. Riley		DATE February 1963
PROJECTION AND GRIDS CHECKED BY (IV): L. F. Beugnet		DATE February 1963
CONTROL PLOTTED BY (III): V. P. Cackowski		DATE April 1963
CONTROL CHECKED BY (III): R. R. Wagner		DATE April 1963
STEREOSCOPIC CONTROL STEREOSCOPIC CONTROL EXTENSION BY (III): J. L. Lisle (W.O.)		DATE April 1963
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY Reviewed: R. D. Purvis R. E. Smith	DATE August 1963 August 1963
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): R. D. Purvis Reviewed by: W. H. Shearouse		DATE August 1963
SCRIBING BY (III): C. Blood Reviewed by: R. E. Smith		DATE March 1965
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. R. Wagner		DATE April 1965
REMARKS: FIELD EDIT - 1964		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Single lens "S" and "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62-S-1111A	1 Sept 62	0836	1:30,000	+4.8
62-S-1112A	"	0836	"	"
62-S-1113A	"	0836	"	"
62-S-1114A	"	0837	"	"
62-S-1115A	"	0837	"	"
62-S-1116A	"	0838	"	"
63-W-3089	21 Feb 63	1125	"	-0.2
63-W-3090	"	1126	"	"
63-W-3091	"	1126	"	"
63-W-3092	"	1127	"	"
63-W-3093	"	1127	"	"
63-W-3094	"	1127	"	"

Predicted TIDE (III)

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	CHARLESTON		4.7	5.5
SUBORDINATE STATION:	Cape Romain	HW	-0.5	
		LW	0.0	4.7
SUBORDINATE STATION:				

WASHINGTON OFFICE REVIEW BY (IV): *FINAL* *M.M. SLAVINEY, NORFOLK REG OFF* DATE: *7/65*

PROOF EDIT BY (IV): *" "* DATE: *11/65*

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	11	RECOVERED:	8	IDENTIFIED:	4
NUMBER OF BM(S) SEARCHED FOR (II): (Tidal) 6*		RECOVERED:	5	IDENTIFIED	1

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None

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

REMARKS:

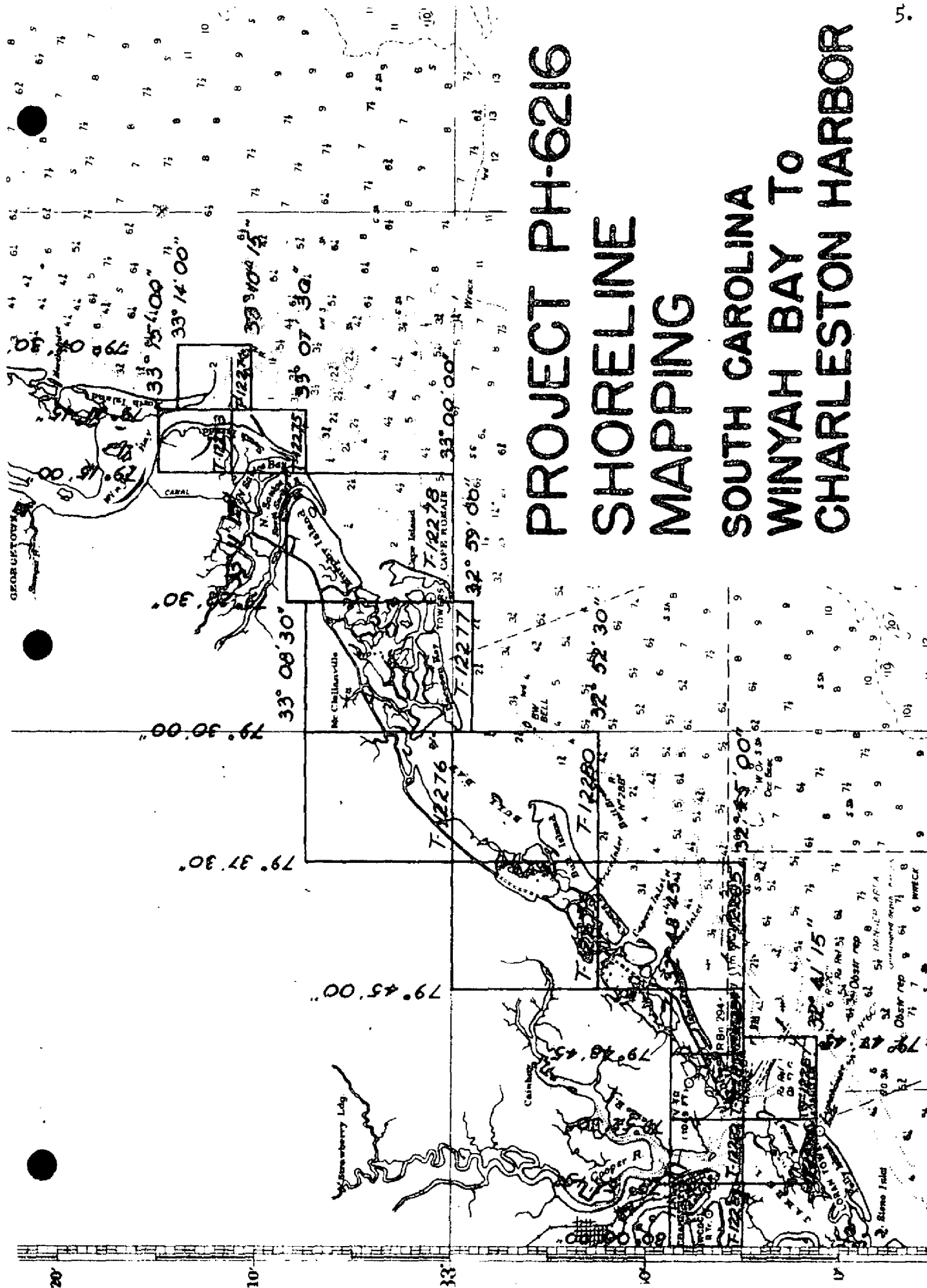
*Four Tidal Bench Marks are north of sheet

COMPILATION RECORD

COMPLETION DATE

REMARKS

Manuscript complete pending field edit	September 1963	Superseded
Manuscript revised for field edit Manuscript complete	February 1965	



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

6.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12278

Shoreline manuscript T-12278 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&S 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. 1:20,000 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 8.5 minutes in latitude and 7.5 in 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

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

MAP T-12278 PROJECT NO. PH-6216 SCALE OF MAP 1"=20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR λ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
FIVE, 1933	53	N.A. 1947	465, 441.11 2, 492, 490.09	14 1866.7 75 9712.5	(ONT-10277)	72 1859.3 38 2072.8	72 1859.3 38 2072.8
ALLIGATOR 2, 1933	53	"	471, 517.17 2, 507, 034.35	14 378.7 76 4145.6		11	11
MILL, 1934	99	"	447, 237.51 2, 498, 828.13	13 6318.3 76 1644.3		11	11
WALKER, 1933	53	"	474, 717.88 2, 520, 284.72	14 46 943 76 8184.3		11	11
OUT, 1933	53	"	448, 273.00 2, 508, 162.92	13 6633.9 76 4489.6		11	11
PAR, 1934	53	"	457, 207.32 2, 503, 225.82	13 9357.1 76 2984.8		11	11
CAPE, 1934	99	"	430, 948.15 2, 502, 554.66	13 1353.3 76 2280.2		11	11
CAPE ROMAIN L.H. OLD TOWER, 1924	57	"	434, 962.39 2, 498, 300.08	13 2576.8 76 1483.4		11	11
CAPE ROMAIN LIGHTHOUSE, 1924	23	"	435, 128.12 2, 498, 415.12	13 2627.3 76 1518.5		11	11
CAPE ROMAIN L.H. ECC NO 2, 1934		"	Not Plotted (2 1/2 meters from Sta.)				

COMPILATION REPORT
T-12278

The Stereoplanigraph Bridge Report submitted with T-12283.

31. DELINEATION

The Kelsh Plotter was used with the exception of the offshore bar south of Murphy Island; which was delineated graphically. The high water line for the bar, was taken from the 1963 photographs.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate. Low waterlines and shallow areas were delineated from office interpretation of the low water photography.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

Forms 567 for landmarks and aids are being submitted under the date of May 26, 1965.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions have been made with: T-12277 to the west, 1:10,000 map T-12275 to the east, and positive of quadrangle Minim Island, S. C. to north at a scale of 1:20,000.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with the following quadrangles:

1. USGS Quadrangle Cape Romain, scale 1:24,000 dated 1942. It was noted that an offshore bar now exists south of Murphy Island and that Cedar Island Point at the mouth of South Santee River has washed away for a distance of approximately $1\frac{1}{2}$ miles. Also Northeast Point has changed somewhat in shape.

2. USGS Quadrangle Minim Island, scale 1:24,000 dated 1943. No significant changes noted.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Charts 836, scale 1:40,000 published March 24, 1952 and revised April 2, 1962; Chart 787 scale 1:40,000 published May 15, 1950 and revised June 22, 1959 and 1238, scale 1:80,000 published August 13, 1943 and revised October 29, 1962. Comparison was favorable.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Approved and Forwarded


J. Bull
Norfolk Regional Officer


R. D. Purvis

R. D. Purvis

by Albert C. Rauch, Jr.

48. GEOGRAPHIC NAME LIST

Geographic names were taken from the final name sheet as prepared on the Minim Island and Cape Romain. Quadrangles by the Geographic Names Section, Washington Office.

ALLIGATOR CREEK	* GOAT ISLAND
ATLANTIC OCEAN	GRACE ISLAND
* BIG DUCK CREEK	INTRACOASTAL WATERWAY
BIRD BANK CREEK <i>ONT-12275</i>	LIGHTHOUSE ISLAND
* BROWN ISLAND	* LITTLE CROW ISLAND
* CANE CREEK	MILL ISLAND
* CANE ISLAND	MURPHY ISLAND
CAPE ISLAND	NEEDLES EYE CREEK
CAPE ROMAIN	NORTH EAST POINT
CAPE ROMAIN HARBOR	* NORTH SANTEE BAY
CAPE ROMAIN NATIONAL WILDLIFE REFUGE	* NORTH SANTEE RIVER
CEDAR ISLAND	RAMHORN CREEK
CEDAR ISLAND POINT	SAIL CREEK
COW PEN POINT	SANTEE POINT <i>ONT-12275</i>
* CROW ISLAND	SOUTH CAROLINA
DEEPWATER POINT	SOUTH SANTEE RIVER
DRUM ISLANDS	WORTH POOL
* DUCK CREEK	
* FOUR MILE CREEK CANAL	

** Feature is north of the limits of this map.*

GEOGRAPHIC NAMES

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

T-12278 (Shoreline)

Alligator Creek
Atlantic Ocean
Cedar Island
Cedar Island Point
Cape Island
Cape Romain Harbor
Cape Romain
Cowpen Point
Deep Water Point
Drum Islands
Grace Island
Intracoastal Waterway
Lighthouse Island
Mill Island
Mill Creek
Murphy Island
Needles Eye Creek
Northeast Point
Ramhorn Creek
South Santee River
Sall Creek
Worth Pool

A. J. Wraight

A. J. Wraight
Geographic Names

T-12278

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 12278			
1. PROJECTION AND GRIDS RRW	2. TITLE RRW 4a Classification label <u>Unclassified</u>	3. MANUSCRIPT NUMBERS RRW	4. MANUSCRIPT SIZE RRW
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) XX	7. PHOTO HYDRO STATIONS XX	
8. BENCH MARKS WHS	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT Bridge	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 RRW	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 XX	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 BW	35. LEGIBILITY OF THE MANUSCRIPT RRW	
36. DISCREPANCY OVERLAY XX	37. DESCRIPTIVE REPORT WHS	38. FIELD INSPECTION PHOTOGRAPHS WHS	39. FORMS WHS
40. REVIEWER Robert A. Wagner by Robert R. Wagner		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr. by A. 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. D. Purvis by Albert C. Rauck, Jr.		SUPERVISOR Albert C. Rauck, Jr. by A. C. Rauck, Jr.	
43. REMARKS There is a number of short streams shown that should have been omitted at the time of scribing. Since the manuscript is for charts, the short streams were not removed.			

T - 12278

51. FIELD EDIT REPORT

Field edit consisted of verification and/or edit of differences encountered in compilation of shoreline features, due to date of photography, i.e., September 1, 1962 and February 21, 1963.

Field edit was submitted on ozalid copy and applied to manuscript. No Field Edit Report was submitted.

Discrepancies concerning ditches and dikes on Murphy and Cedar Islands, were resolved through field edit recommendations in conjunction with the most recent photography.

Albert C. Rauck, Jr.

Albert C. Rauck, Jr.

PHOTOGRAMMETRIC REVIEW BRANCH

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE REVISED
~~TO BE DELETED~~
~~TO BE DELETED~~

STRIKE OUT TWO

~~Norfolk, Virginia~~

~~5961~~ ~~92~~ ~~444~~

I recommend that the following objects which have ~~been~~ ^{have not} 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

R. R. Wagner

~~Worfolk Regional Office~~

**J. Paul
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-6216 T-12278

Time and date of exposure 26 Feb 63 Reference station Charleston, S.C.

Date of field inspection

Subordinate station Cape Roman

Spring 5.5
Mean range 4.7
Ratio of ranges 4-0.4
4-0.0

	Time		Height / feet	Height x Ratio of ranges
	h.	m.		
High tide	05	12	4.8	4.8
Low tide	11	43	0.2	0.2
Duration of rise or fall	06 31		4.6	

	Time		High tide at Ref. Sta.	Time difference	Corrected time at Subordinate station
	h.	m.			
High tide at Ref. Sta.	05	41			
Time difference				- 29	
Corrected time at Subordinate station	05	12			

	Time		Low tide at Ref. Sta.	Time difference	Corrected time at Subordinate station
	h.	m.			
Low tide at Ref. Sta.	12	04			
Time difference				- 21	
Corrected time at Subordinate station	11	43			

	h.	m.	Ht. H. T. or L. T.	Tabular correction	Stage of tide above MLW	feet	Photo. No.
Time H. T. or L. T.	11	43				- 0.2	63-80-3091
Required time	11	26				0.0	
Interval		17				- 0.2	
Time H. T. or L. T.							
Required time							
Interval							
Time H. T. or L. T.							
Required time							
Interval							
Time H. T. or L. T.							
Required time							
Interval							
Time H. T. or L. T.							
Required time							
Interval							

Computed by R. D. P.

Checked by J. P. V.

TIDE COMPUTATION

PROJECT NO. Ph. T- 12 278

Time and date of exposure 0837 1 Sept 62 Reference station Charleston, S.C.

Date of field inspection Jan 19 63 Subordinate station Cape Romain

Spring 5.5
Mean range 4.7

Ratio of ranges

	Time		Height feet	Height x Ratio of ranges	High tide at Ref. Sta. Time difference Corrected time at Subordinate station	Time	
	h.	m.				h.	m.
High tide	08	49	5.2	4.8		09	09
Low tide	02	38	0.2	0.2		-29	
Duration of rise or fall	06	11		4.6		08	49

	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.
	h.	m.					
Time H. T. or L. T. Required time Interval	08	49		4.8		4.8	62-5-11199
	08	37		0.0			
		12		4.8			
Time H. T. or L. T. Required time Interval							
Time H. T. or L. T. Required time Interval							
Time H. T. or L. T. Required time Interval							
Time H. T. or L. T. Required time Interval							
Time H. T. or L. T. Required time Interval							
Time H. T. or L. T. Required time Interval							
Time H. T. or L. T. Required time Interval							

16.

REVIEW REPORT T-12278
SHORELINE
August 1965

61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6)

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-8235	1:20,000 scale	1942
T-8231	" "	"

An ozalid comparison print of T-12278 is submitted with the differences noted:

More than a mile of the south end of Cedar Island has disappeared. Cedar Island Point is now at latitude $33^{\circ} 07.2'$. The beach north of this has, however, built up and moved east about 175 meters.

On the east shore of Murphy Island a narrow island about 25 meters wide and 3 miles long has developed while some erosion of the ~~main~~ island shore has taken place.

Cape Island has extended to the north about 600 meters, and at the south end it has extended eastward with a narrow portion about a mile long and up to 100 meters wide. The Atlantic shoreline has, however, eroded as much as 300 meters.

There are changes in the "pond" areas on Cedar Island.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES

CAPE ROMAIN, S. Carolina, USGS	1:24,000	1942
MINIM ISLAND, " " "	" "	"

Both of the quadrangles are civil editions of the same quadrangles published by the Corps of Engineers at 31:680 from the Coast and Geodetic Survey's 1:20,000 maps T-8235 and T-8231 (see Item 62). The same differences with T-12278 exist.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

BOAT SHEETS: WH 20-1-64A&B	1:20,000	No date
WH 20-2-64A&B	"	"

The boat sheets shorelines were taken from T-12278 before field edit. They are in agreement with this map with the exception of some changes noted by the field editor in the long narrow island that lies east and south of Murphy Island.

65. COMPARISON WITH NAUTICAL CHARTS

Chart 835 SC, 1:40,000, 2nd edition March 1965, as of Notice to Mariners No. 5 January 30, 1965.

Chart 1238, 1:80,000, 4th edition May 10, 1965.

Chart 787, 1:40,000, 3rd edition October 26, 1964.

Chart 835 SC provides coverage for only a part of T-12278, that part of Murphy Island with Alligator Creek and the Intracoastal Waterway. Agreement with T-12278 is good.

Chart 787 provided coverage of this map down to latitude $33^{\circ} 04'.5$. From latitude $33^{\circ} 04.5'$ south chart 1238 was used. Both 787 and 1238 appear to have made some use of the advance compilation of this map which was furnished for hydro support in October 1963. Both charts have the following discrepancies with this map:

There are some differences at Cedar Island Point and the southern shoreline of Cedar Island; and the small islands at latitude $33^{\circ} 05.5'$ just off Murphy Island.

At the north end of Mill Island, latitude $33^{\circ} 02.44'$ longitude $79^{\circ} 02.05'$, the chart shows a rock just offshore in a shallow area. Neither the field inspector, compiler, or the field editor noted a "rock" here, but the compilation shoreline does enclose the "rock" inside the confines of Mill Island.

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 568
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-12278 Project 21058 (Ph-6216)

BOAT SHEET No. WH 20-1-64 A&B and WH 20-2-64 A&B

The boat sheets shorelines were taken from T-12278 before field edit. They are in agreement with this map with the exception of some changes noted by the field editor in the long, narrow island that lies east and south of Murphy Island.