Original

T-12277

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE

Field No. ..... *Office No.* T-12277

LOCALITY

State SOUTH CAROLINA

General locality WINYAH BAY TO CHARLESTON HARBOR

Locality FIVE FATHOM CREEK

1962 - 1963

CHIEF OF PARTY

J. K. Wilson, Field Party
J. C. Bull, Norfolk Regional Office

LIBRARY & ARCHIVES

DATE .....

USCOMM-DC 5087

T-12277

T-12277

FORM C&GS-181a
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T - 12277

PROJECT NO. (II):

Ph 6216

FIELD OFFICE (II):	CHIEF OF PARTY
Georgetown, South Carolina	Joseph K. Wilson
PHOTOGRAMMETRIC OFFICE (III):	OFFICER-IN-CHARGE
Tampa, Fla.	V. Ralph Sobieralski

INSTRUCTIONS DATED (II) (III):

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

METHOD OF COMPILATION (III):

Kelsh Plotter

MANUSCRIPT SCALE (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:20,000	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):	VERTICAL DATUM (III): M.H.W.
N. A. 1927	XXXXXXXXXXXX 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* XXXXXXXXXXXXXXXXXr

REFERENCE STATION (III):

OYSTER 1934

LAT.:	LONG.:	
33° 03' 15".500 (477.5m)	79° 26' 59".127 (1534.0m)	[X] ADJUSTED [ ] UNADJUSTED

PLANE COORDINATES (IV):	STATE	ZONE
Y = 447,707 . 37 ft. X = 2,474,981.26 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.

USCOMM-DC 16276A-P61

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 - J. D. Shea; R. S. Tibbetts - J. K. Wilson	DATE: November 1962; February 1963
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo. compilation — Sept. 1, 1962 & Date of Photography — Feb. 21, 1963	
PROJECTION AND GRIDS RULED BY (IV): A. R. (Washington Office)	DATE: Feb. 1963
PROJECTION AND GRIDS CHECKED BY (IV): L. F. B. (Washington Office)	DATE: Feb. 1963
CONTROL PLOTTED BY (III): V. P. Cackowski	DATE: April 1963
CONTROL CHECKED BY (III): R. R. Wagner	DATE: April 1963
~~RADIAL PLOTTER~~ STEREOSCOPIC CONTROL EXTENSION BY (III): Washington Office	DATE:
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY: R. E. Smith; Reviewed I. I. Saperstein	DATE: June 1963; June 1963
CONTOURS: Inapplicable	DATE:
MANUSCRIPT DELINEATED BY (III): R. E. Smith; Reviewed by R. R. Wagner	DATE: July 1963; Feb. 1964
SCRIBING BY (III): P. Leikhim	DATE: June 1964
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. R. Wagner	DATE: Oct. 1964

REMARKS:

FIELD EDIT - 1963

FORM C&GS-181c
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

S & W Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62-S-1116A	1 Sept. 62	0837	1:30,000(Diapositives)	+5.0
1117A	"	0837	"	"
1118A	"	0838	"	"
1119A	"	0838	"	"
1120A	"	0839	"	"
62-S-1121A	1 Sept. 62	0840	"	"
62-S-1233A	"	1014	"	"
1234A	"	1015	"	"
62-S-1235A	1 Sept. 62	1015	"	"
63-W-3084	21 Feb. 63	1123	"	-0.1
3085	"	1124	"	-0.1
3086	"	1124	"	-0.1
3087	"	1125	"	-0.1
63-W-3088	21 Feb. 63	1125	1:30,000	-0.1

TIDE (III) Predicted

			RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	CHARLESTON			5.1	6.0
SUBORDINATE STATION:	McClellanville, Jeremy Creek	HW	0.0		
		LW	0.0	5.1	6.0
SUBORDINATE STATION:	Five Fathom Creek entrance	HW	-0.2		
		LW	0.0	4.9	5.8

~~WASHINGTON OFFICE~~ FINAL REVIEW BY (IV): M. M. Slavney, Norfolk Regional Office — DATE: April, 1965

PROOF EDIT BY (IV): " " — DATE: 11/65

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 15*	RECOVERED: 14	IDENTIFIED: 4
NUMBER OF BM(S) SEARCHED FOR (II): (Tidal) 3	RECOVERED: 1	IDENTIFIED 1

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None

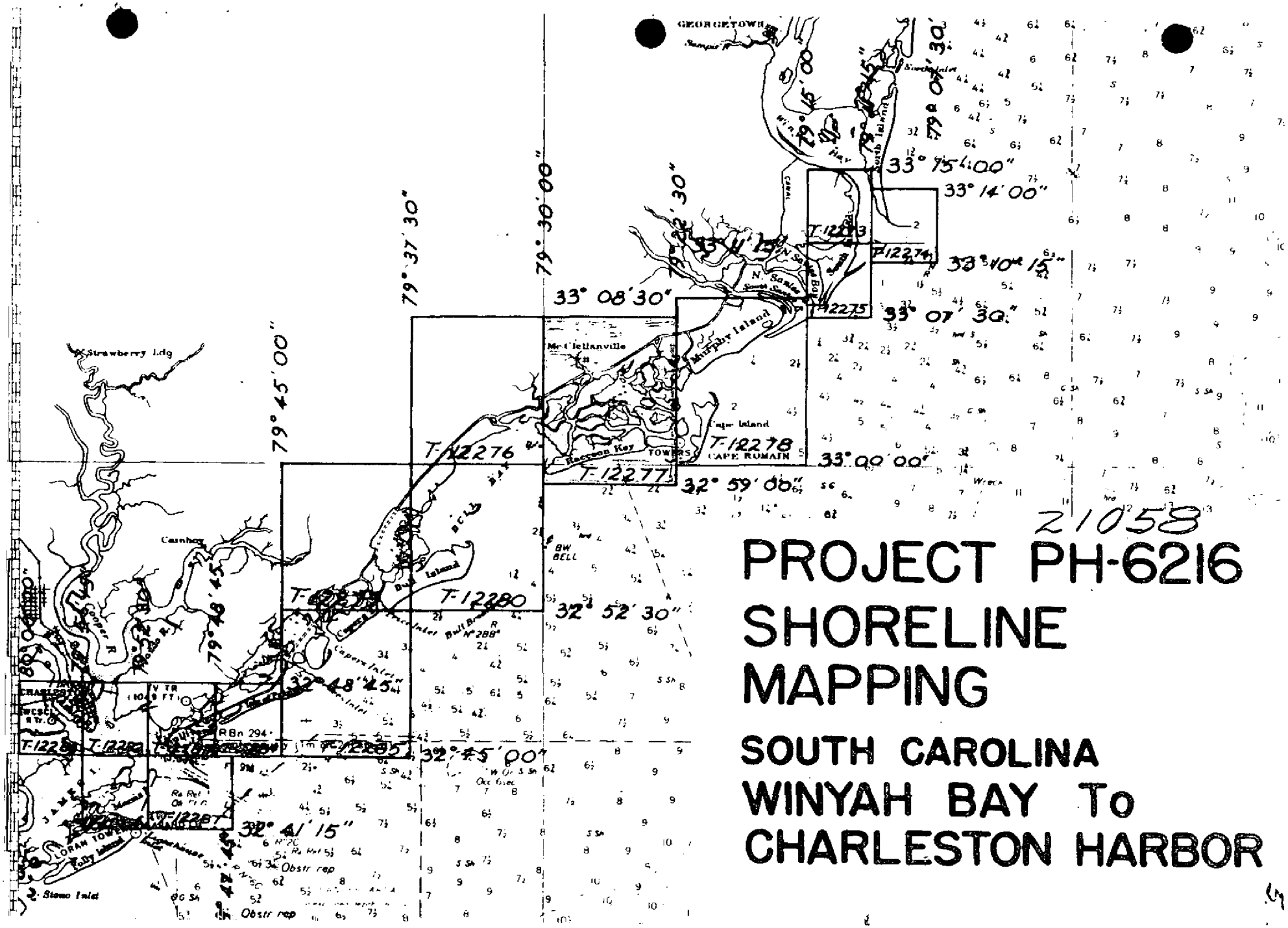
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): None

REMARKS:

*In addition to these triangulation stations, 3 new stations (COON 2 1963, McCLELLANVILLE MICROWAVE TOWER and McCLELLANVILLE WILDLIFE REFUGE LOOKOUT TOWER) were established by Geodetic Party 601 in January 1963. All three of which were identified on the photographs, but a description was received for COON 2 1963 only.

T-12277

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro.	June 1963	Superseded
Alongshore field edit applied. Compilation completed.	February 1964	



21058

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

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-12277

Shoreline manuscript T-12277 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 inspection. 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 and February 21, 1963 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 $8\frac{1}{2}$ minutes in latitude and $7\frac{1}{2}$ minutes in 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
Project PH-6216
Maps T-12273 thru T-12280
and T-12284 thru T-12285

This report is submitted for the ten maps since there are no great differences in terrain, natural or cultural features which would require special treatment.

2. AREAL FIELD INSPECTION

The area lies between Winyah Bay and Sullivans Island (just North of Charleston Harbor). The entrance to Winyah Bay and the inlets between are to be mapped but the inland waters are not included. Photograph coverage only extends to the inland waters and there is not complete coverage for each map.

The area consists of a marshy shoreline about 4 miles in width bordering the Atlantic Ocean. There is only one small town lying between Georgetown and Sullivans Island, namely: McClellanville. The Francis Marion National Forest and Cape Romain National Wildlife Refuge own a considerable part of the areas of these maps. In general the remainder is owned by plantations and the paper companies.

The photographic quality was good for the entire area. Photographic tones were found to be similar to other areas along the South Atlantic Coast.

Photographs used for field inspection are listed below by individual maps:

T-12273	T-12274	T-12275	T-12276	T-12277
62S-1109A	62S-1108A	62S-1110A	62S-1122A	62S-1117A
		62S-1111A	62S-1129A	62S-1118A
T-12278	T-12279		62S-1130A	62S-1119A
		T-12280	62S-1131A	62S-1120A
62S-1112A	62S-1222A		62S-1132A	62S-1121A
62S-1113A	62S-1223A	62S-1123A		62S-1187A
62S-1114A	62S-1224A	62S-1124A	T-12284	62S-1188A
62S-1115A	62S-1225A	62S-1125A		62S-1189A
62S-1116A	62S-1226A	62S-1228A	62S-1202A	62S-1236A
62S-1186A	62S-1227A	62S-1192A	62S-1203A	62S-1235A
	62S-1196A	62S-1193A		62S-1234A
	62S-1197A	62S-1194A		62S-1233A
		62S-1195A		T-12285
				62S-1198A
				62S-1199A
				62S-1200A
				62S-1201A

3. HORIZONTAL CONTROL

Horizontal control recovery and identification has been completed in accordance with project instructions.

Geodetic Party 601 was moved to Texas prior to completing the restoration of the horizontal control scheme along this part of South Carolina. They did however establish the following stations before their party left the area:

COON 2, 1963
BULL 2, 1963
WILD, 1963
* Photo Picture Point, 1963 (Temporary Copper Rod).
McCLELLANVILLE MICROWAVE TOWER, 1963
McCLELLANVILLE WILDLIFE REFUGE LOOKOUT TOWER, 1963
* WINYAH BAY RANGE A REAR LIGHT, 1963
* " " " " FRONT LIGHT, 1963
* " " " B REAR LIGHT, 1963
* " " " " FRONT LIGHT, 1963
GEORGETOWN COAST GUARD RADIO MAST, 1963

* Mr. Tomlinson did not write descriptions. The descriptions for McCLELLANVILLE MICROWAVE and LOOKOUT TOWER plus GEORGETOWN COAST GUARD RADIO MAST can be gotten from Division of Geodesy in Washington.

Horizontal control stations reported lost, destroyed or not recovered are listed below by maps:

T-12274

South Jetty Channel Rear Range Beacon, 1934

T-12276

Graham (USE), 1934

T-12277

Bay, 1934
Nellie, 1934
Raccoon, 1934
Old Chimney n.w. of Station Five, 1934 (previously reported destroyed)

T-12278

Delta, 1933
Black, 1934

T-12279

Wagner 3, 1924
Francis, 1924
Sewee, 1932
Rail, 1928
Twin, 1928
Ville, 1928

T-12280

Van, 1933

T-12284

Palms, 1920 (Previously reported gone)
Swinton (USE), 1934
Isle of Palms Standpipe, 1932

T-12285

Inlet, 1933
Robert 3, 1924
Dewees, 1934

4. VERTICAL CONTROL

A search was made for all tidal bench marks within the limits of these maps. Form 685A was submitted for each mark.

5. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage is practically entirely composed of tidal streams. Normal drainage is generally by direct run-off into marsh, swamp or the tidal streams.

6. WOODLAND COVER

Woodland cover was classified in accordance with the Topographic Manual.

7. SHORELINE AND ALONGSHORE FEATURES

The high-water line has been indicated on the photographs by symbol in accordance with current instructions. No attempt was made to delineate the low-water line.

The field inspector accomplished this phase by several methods; measurements from identifiable points of detail, by visual inspection from skiff and by walking the shoreline.

All other shoreline features are adequately covered by field inspection notes on the photographs. There have been no great changes since photography.

8. OFFSHORE FEATURES

Several rocks and two wrecks in Bull Bay could not be found at low-water. They require further investigation by hydrographer. One wreck at Dewees Inlet and two near Hector Wreck have been reported by local fishermen. None of these three appear on the chart.

Several piling, snags, stakes, etc. have been shown on previous charts. Most of these could not be found. A chart section showing the deletions is enclosed with the map data.

9. LANDMARKS AND AIDS

Two new nautical landmarks are recommended for charting and two for deletion. All are reported on form 567.

All fixed aids to Navigation are reported on form 567 for charting. There were no changes. The range lights at the entrance to Winyah Bay were located by third-order Triangulation methods by Geodetic Party 601. Other Aids to Navigation were identified by the direct method or by theodolite cuts from triangulation stations and identifiable points of detail.

10. BOUNDARIES, MONUMENTS AND LINES

There have been no boundary lines shown.

11. OTHER CONTROL

There were no marked topographic stations established. Several landmarks, etc. were identified on the photographs.

12. OTHER INTERIOR FEATURES

All roads were classified in accordance with Photogrammetry Instructions No. 56.

Field inspection of buildings was done in accordance with Photogrammetry Instructions No. 54, revised September 22, 1961.

There were no bridge or cable clearances measured during this survey. All submerged cables are shown on the photographs.

13. GEOGRAPHIC NAMES

A systematic investigation of Geographic Names was made. See "Special Report, Geographic Names, Project Ph-6216".

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

"Special Report, Geographic Names, Project Ph-6216" forwarded to Washington 16 January 1963.

Form 567 forwarded with this report.

27 February 1963
Submitted by:

Joseph K. Wilson
Chief, Photo Party 720

FORM 164 (4-23-54)

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

MAP T-1277 PROJECT NO. Ph-6-16 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
KEY, 1934	99	N.A. 1927	435,293.84	13	2677.8				RKW April 30 63	
			2,468,233.80	75	2319.2				VPC	
SETT, 1934	99	"	444,896.35	13	5604.7				"	
			2,465,333.31	75	1435.1					
DEVIL, 1934	99	"	438,065.62	13	3522.7				"	
			2,488,768.08	75	8578.0					
RAIN, 1934 (0.10m. off)	99	"	431,826.25	13	1620.9				"	
			2,472,550.90	75	3635.0					
ROM, 1934	99	"	436,357.25	13	3002.0				"	
			2,480,897.25	75	6179.0					
FIVE FM, 1934	100	"	432,456.13	13	1812.9				"	
			2,463,596.97	75	0905.9					
OYSTER, 1934	99	"	447,707.37	13	6461.5				"	
			2,474,981.26	75	4375.8					
MATHEWS (USE), 1934	100	"	451,086.66	13	7491.5				"	
			2,461,039.87	75	0126.5					
REFUGE, 1934	100	"	457,434.10	13	9426.2				"	
			2,471,821.80	75	3412.8					
McCLELLANVILLE, 1932	12	"	462,488.67	14	0966.8				"	
			2,466,717.66	75	1857.0					
NR TOWN (USE), 1934	100	"	454,350.31	13	8486.3				"	
			2,467,437.59	75	2076.5					
NR NELLIE, 1934	100	"	441,591.47	13	4597.3				"	
			2,471,268.07	75	3244.0					

1 FT. = .3048006 METER

LISTED COMPUTED BY: J. Houck DATE 4-18-63 CHECKED BY: RKW DATE 4/29/63

COMM-DC-57843

FORM 164
(4-23-54)

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

MAP T-12477 PROJECT NO. Ph-6216 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
JEREMY 2, 1924	23	N.A. 1927	455,871.70	13 8950.0					RLW Ap 3963	
			2,478,470.17	75 5439.2					VPC.	
COON 2, 1963	Wash. Off.	"	427,917.08	13 0429.4					"	
			2,461,941.65	75 0401.3						
CONGREE, 1933	53	"	452,326.58	13 7869.4					"	
			2,489,797.96	75 8891.9						
FIVE, 1933	"	"	465,441.11	14 1866.7					PI, VPC 5/2/63	
			2,492,490.09	75 9712.5					"	
McCLELLANVILLE MICROWAVE TOWER 1963	Field		463 333.10							
			2,472,929.51							
McCLELLANVILLE WILDLIFE REFUGE LOOKOUT TOWER 1963			449,944.99							
			2 488,889.98							

1 FT. = .3048006 METER

COMPUTED BY: J. Homick DATE 4-18-63 CHECKED BY: RLW DATE 4/29/63

COMM-DC-57843

Compilation Report
T-12276, T-12277

The stereo bridge was run in the Washington Office and the Report is submitted with T-12283.

31. Delineation:
The Kelsh Plotter was used. Field inspection was adequate, and some photographs were dark and lacked contrast.

32. Control:
See Aerotriangulation Report. (with T-12283)

33. Supplemental Data:
None.

34. Contours and Drainage:
Inapplicable.

35. Shoreline and Alongshore Details:
The shoreline inspection was adequate and was delineated accordingly. No low water line was shown. Shallow areas were delineated from office interpretation of the low water photography.

All piers indicated by the field inspection have been shown.

36. Offshore Details:
None.

37. Landmarks and Aids:
Form 567 for landmarks and aids in T-12277 submitted with this report.

38. Control for Future Surveys:
None.

39. Junctions: (for T-12276)
Junctions have been made with:
T-12277 to the east
T-12280 to the south, this project has no maps to the west and north.

(for T-12277)
T-12276 to the west
T-12278 to the east, this project has no map to the north, and the Atlantic Ocean is to the south.

40. Horizontal and Vertical Accuracy
No statement.

46. Comparison with Existing Maps
For T-12276:

Comparison has been made with U.S.G.S. quadrangle AWENDAW, South Carolina scale 1:24,000 edition of 1943. The Intracoastal Waterway has been widened. The Bull Bay shoreline is in agreement with only minor exceptions.

For T-12277:

Comparison has been made with U.S.G.S. quadrangle MCCLELLANVILLE, S. C. scale 1:24,000 edition of 1942. The Intracoastal Waterway has been widened. The outer shoreline is almost entirely on the Atlantic Ocean and has undergone major changes. The shoreline, of Raccoon Key, which extends over 5 minutes of longitude, has receded 250 to 375 meters. The beach has not appreciably eroded away, but appears to have been pushed inland across the marsh, because the sandy beach is still approximately the same width.

Conversely the shoreline of Lighthouse Island, east of Raccoon Key, has moved seaward about 150 meters, and new offshore islets have emerged.

47. Comparison with Nautical Charts
Comparison of T-12276 and T-12277 have been made with Charts 836, scale 1:40,000 edition of 1952 revised April 2, 1962; Chart 837, scale 1:40,000 edition of March 19, 1962; and Chart 1238, scale 1:80,000 edition of August 13, 1943 revised to October 29, 1962.

The same differences were noted as under Item 46.

Items to be Applied to Nautical Charts Immediately
None.

Items to be carried Forward
None.

Approved and Forwarded

J. Bull

J. Bull, Norfolk Regional Officer

M. M. Slavney

M. M. Slavney

48. Geographic Name List

ATLANTIC OCEAN

BAY CREEK
BULL BAY
BULL RIVER

CAPE ROMAIN NATIONAL WILDLIFE REFUGE
CASINO CREEK
CLARK CREEK
CLUBHOUSE CREEK
CONGAREE BOAT CREEK

DEEPWATER CREEK
DEVILS DEN CREEK
DU PRE CREEK

FIVE FATHOM CREEK

HORSEHEAD CREEK
HORSEHEAD ISLAND

INTRACOASTAL WATERWAY
ISLAND CUT
JEREMY CREEK
JEREMY ISLAND
JOE AND BEN CREEK

KEY BAY
KEY CREEK
KEY INLET

LIGHTHOUSE ISLAND
LINCOLN SCHOOL
LITTLE PAPAS CREEK
LITTLE SETT CREEK
LONG CREEK

MATHEWS CREEK
MATHEWS CUT
McCLELLANVILLE
MILL CREEK
MILL DEN CREEK
MILL ISLAND
MOORES CORNER
MUDDY BAY

NEEDLES EYE CREEK
NELLIE CREEK

ORMAND HALL CREEK
OYSTER BAY

PAPAS CREEK

RACCOON CREEK
RACCOON KEY
RAMHORN CREEK
ROMAIN RIVER
S CREEK
SALL CREEK
SANDY POINT
SANDY POINT BEACH
SANTEE PATH CREEK
SETT CREEK
SKRINE CREEK
SLACK REACH
SOUTH CAROLINA

THE BEACH
TOWN CREEK

Names were taken from the Final Name Sheet as prepared on the MC CLELLANVILLE quadrangle by the geographic Names Section, Washington Office.

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

T-12277 (Shoreline)

Atlantic Ocean
Bay Creek
~~Bay Creek~~
Bull Bay
Bull River
Cape Romain National Wildlife Refuge
Clark Creek
Deepwater Creek
Congaree Boat Creek
Casino Creek
Clubhouse Creek
Devils Den Creek
Du Pre Creek
Five Fathom Creek
** Francis Marion National Forest
Horsehead Island
Horsehead Creek
Intracoastal Waterway
Island Cut
Jeremy Island
Key Bay
Key Inlet
Key Creek
Jeremy Creek
Joe and Ben Creek
Lighthouse Island
Lincoln School
Little Sett Creek
Long Creek
Little Papas Creek
Mill Island
Moores Corner
McClellanville
Mathews Creek
Mathews Cut
Muddy Bay
Mill Creek
Mill Dan Creek
Nellie Creek
Needles Eye Creek
Papas Creek
Ormand Hall Creek
Oyster Bay
Romain River
Raccoon Key
Raccoon Creek
Ramhorn Creek
South Creek — should be S Creek
Skrine Creek
Slack Reach
Sandy Point Beach
Santee Path Creek
Sett Creek
Sall Creek
Sandy Point
Town Creek
The Beach

Cape Island *

South Carolina

A. J. Wraight
Geographic Names

Rechecked & approved
7/2/65

*Cape Island, on T-12278 to the east, has built up to extend into this map.
**Name not used because limits were not shown.
M.M.S.

49. NOTES FOR THE HYDROGRAPHER

Inland streams, bays and other features are to be delineated at a later date.

Aids to navigation and landmarks are inland and not considered of value to the hydrographer. Form 567's will be submitted upon completion of interior compilation.

Form 526's are submitted to the Field Editor for stations near the open shore, which may be of value to the hydrographer.

C&GS FORM 567.
(11-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~
~~TO BE DELETED~~
} STRIKE OUT TWO

Tampa District Office, Feb. 24, 1964

I recommend that the following objects which have ~~(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. E. Smith, Jr.

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
			LATITUDE*		LONGITUDE*		DATUM						
CHARTING NAME	DESCRIPTION	SIGNAL NAME	° ′	″ D.M. METERS	° ′	″ D.P. METERS							
	WINYAH BAY - CHARLESTON HARBOR												
DAYBN 27			33 06	36.16 1114	79 22	56.31 1460	N.A. 1927	Photo T-12277	Jan.8 1963		*		X 836
LIGHT 29			33 06	26.10 804	79 23	33.36 865	*	*	*				X *
LIGHT 30			33 05	54.40 1676	79 24	13.81 358	*	*	*				X *
LIGHT 32			33 04	53.43 1646	79 26	23.91 620	*	*	*				X 836,837
DAYBN 33			33 04	42.98 1324	79 27	05.55 144	*	*	Jan.17 1963				X * *
LIGHT 35			33 04	37.98 1170	79 27	35.93 932	*	*	*				X * *
DAYBN 37			33 04	25.00 770	79 28	03.01 78	*	*	*				X 837
LIGHT 38			33 03	55.80 1719	79 29	06.52 169	*	*	Dec.18 1962				X 837
DAYBN 39			33 03	44.63 1375	79 29	38.43 997	*	*	*				X 837
DAYBN 1	JEREMY CREEK		33 04	40.90 1260	79 27	37.71 978	*	*	Jan.28 1963				X 836,837
DAYBN 3			33 04	47.36 1459	79 27	38.90 1009	*	*	*				X * *
DAYBN 5			33 04	52.91 1630	79 27	41.18 1068	*	*	*				X * *
DAYBN 7			33 04	57.39 1768	79 27	47.66 1236	*	*	*				X * *

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

USCOMM-DC 16234-P61

C&GS FORM 567
(11-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

~~NONFLOATING AIDS~~ OR LANDMARKS FOR CHARTS

~~TO BE CHARTED~~
~~TO BE REVISED~~
~~TO BE DELETED~~ } STRIKE OUT TWO

Tampa District Office, Feb. 24, 1964

I recommend that the following objects which have ~~(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. E. Smith, Jr.

V. Ralph Sobieralski, *Chief of Party.*

STATE: SOUTH CAROLINA

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	″ D.M. METERS	POSITION LONGITUDE* ° ′	″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	INSHORE	EXTENT OFFSHORE	OFFSHORE CHART	INTRACOASTAL	CHARTS AFFECTED
	~~MC CLELLANVILLE WILDLIFE REFUGE~~			35.581		15.334	N.A.	T-12277	Jan.9	X				1238
TOWER	LOOKOUT TOWER 1936 ht=53(56)		33 03	1096.1	79 24	397.8	1927	Trilang	1963				X	836
~~MICROWAVE~~	~~MC CLELLANVILLE MICROWAVE~~			50.385		20.526								
TOWER	TOWER 1963 ht=335(347)		33 05	936.0	79 27	532.2	"	"	"	X			X	" "
				52.193		34.571			Dec.1					
TOWER	REFUGE 1934 ht=108(114)		33 04	1607.9	79 27	896.6	"	"	1962	X			X	" "

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

USCOMM-DC 16234-P61

FORM 182 (8-61)

PHOTOGRAMMETRIC OFFICE REVIEW

T- 12277

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
R. R. W.	4a Classification label unclassified	"	"

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS)
"	"

7. PHOTO HYDRO STATIONS	8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT
XX	"	XX	Washington Office

11. DETAIL POINTS: "

ALONGSHORE AREAS (Nautical Chart Data)

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
"	XX	XX	XX

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES
"	"	"

19. OTHER ALONGSHORE CULTURAL FEATURES: "

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER
XX	"

22. PLANETABLE CONTOURS	23. STEREOSCOPIC INSTRUMENT CONTOURS
XX	XX

24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS
XX	XX

26. OTHER PHYSICAL FEATURES: "

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS
"	"	XX

30. OTHER CULTURAL FEATURES: "

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
XX	XX

MISCEL-LANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS
"	"

35. LEGIBILITY OF THE MANUSCRIPT	36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT
"	XX	M. M. S.

38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
"	M. M. S.

SIGNATURE OF REVIEWER	SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT
R. R. Wagner	M. 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	SIGNATURE OF SUPERVISOR
R. Purvis R R Wagner for.	M. M. Slavney

USE REVERSE SIDE FOR REMARKS

USCOMM-DC 25353-P61

FIELD EDIT REPORT
T-12277

No Field Edit Report was forwarded with the edit data.

Questions referred to the field editor on the ozalid Discrepancy Print were satisfactorily answered by the editor. These concerned specific shoreline areas, that indicated changes between the September 1962 and February 1963 photographs.

REVIEW REPORT T-12277
SHORELINE
APRIL 1965

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report (page 6).

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-8236 1:20,000 1943

An ozalid comparison print is submitted with differences noted: The Atlantic Ocean shoreline of Raccoon Key, 5½ miles from Sandy Point to Key Inlet has receded from 250 to 375 meters. Extensive changes are apparent on Lighthouse Island shoreline and the islands south of Lighthouse Island. The Intracoastal Waterway has been widened. There are minor changes in the interior of the map.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES

U.S.G.S. - MCCLELLANVILLE, SOUTH CAROLINA 1:24,000 1942

This quadrangle, published by the U.S.G.S., is the civil edition of T-8236 referred to in ITEM 62; and the same differences with T-12277 exist.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets HFP-20-1-63, 1:20,000 scale, no date and PE-20-2-63, 1:20,000 scale, no date. The two boat sheets show no planimetry beyond the Atlantic Ocean and Bull Bay shorelines plus the entrances to Key Inlet and Five Fathom Creek.

The only discrepancy is in the shoreline at Sandy Point, which appears on both boat sheets, surveyed by the field editor and noted "subject to frequent change". This change should be shown on the hydrographic smooth sheet.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with:

Chart 835 SC, 1:40,000 scale, 2nd edition corrected through Notice to Mariners No. 5 January 30, 1965.

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 of May 10, 1965 for the area not covered by charts 835 SC and 837 SC.

The planimetry for charts 835 SC and 837 SC was apparently taken from T-8236, see ITEM 62, however, the May 1965 edition of Chart 1238 has apparently used the compilation manuscript of T-12277 for the Atlantic shoreline.

The three charts, 835 SC, 837 SC and 1238 have in common the following differences with T-12277:

The Intracoastal Waterway has been widened; in some areas by 35 (thirty-five) meters.

The shoreline of marsh islets in Muddy Bay; south of McClellanville on the south side of the Intracoastal Waterway; and the size and shape of Jeremy Creek.

Chart 837 SC, shows a "cable area" on the Intracoastal Waterway southeast of McClellanville, at longitude 79° 27.1 which is not shown on T-12277. It was not noted during field inspection, and this part of the map had not been compiled when field edit was done.

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 cable area as discussed in the last paragraph of ITEM 65.

Reviewed by:

M. M. Slavney

M. M. Slavney

Approved by:

J. Bull

J. Bull, Norfolk Regional Officer

Approved by:

Chief, ~~Cartographic~~ Photogrammetric Branch

Chief, Photogrammetry Division

Chief, Chart Division

Chief, Operations Division

NOTES TO VERIFIER
T-12277 Project 21058 (Ph-6216)
BOAT SHEET NOS. HFP 20-1-63 and PE 20-2-63

A discrepancy exists in the shoreline at Sandy Point between the boat sheets and this map. The shoreline was located by the field editor and was noted "subject to frequent change."

TIDE COMPUTATION

PROJECT NO. Ph- 6216 T- 12277

Time and date of exposure 1124 Feb 21, 1963 Reference station CHARLESTON Spring 5.8 Mean range 4.9

Date of field inspection ________ Subordinate station Five Fathom Creek entrance Ratio of ranges HW -.2 LW 0.0

	Time h.	Time m.
High tide	11	53
Low tide	05	28
Duration of rise or fall	6	35 (27)

	Height feet	Height x Ratio of ranges
High tide	5.2 - 0.2	5.0
Low tide	-0.2 ~~0.0~~	-0.2
Range of tide		5.2

	Time h.	Time m.
High tide at Ref. Sta.	05	41
Time difference	-00	13
Corrected time at Subordinate station	05	28 (18)

	Time h.	Time m.
Low tide at Ref. Sta.	12	04
Time difference	-00	11
Corrected time at Subordinate station	11	53

	h. m.		feet		feet	Photo. No.
Time ~~H. T.~~ or L. T.	11 53	Ht. ~~H. T.~~ or L. T.	-0.2	Feature bares		
Required time	11 24	Tabular correction	0.1	Stage of tide above MLW	-0.1	63-W-3086
Interval	29	Stage of tide above MLW	-0.1	Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		

M-2617-12

Computed by P. E. Smith Checked by V. P. Cackowski 7/29/63

TIDE COMPUTATION

PROJECT NO. Ph-6216 T- 12277

Time and date of exposure 0838 1 Sept. 1962 Reference station CHARLESTON — Spring 6.0 Mean range 5.1

Date of field inspection Jan 1963 Subordinate station McClellanville, Jeremy Creek — Ratio of ranges 0.0

	Time h. m.
High tide	0929 ✓
Low tide	0320 ✓
Duration of rise or fall	0609 ✓

	Height feet	Height x Ratio of ranges
High tide	5.2	5.2 ✓
Low tide	0.2	0.2 ✓
Range of tide		5.0 ✓

	Time h. m.
High tide at Ref. Sta.	0909 ✓
Time difference	+0 20 ✓
Corrected time at Subordinate station	09 29 ✓

	Time h. m.
Low tide at Ref. Sta.	0259 ✓
Time difference	+0 21 ✓
Corrected time at Subordinate station	0320

	h. m.		feet		feet	Photo. No.
Time H. T. ~~or L. T.~~ Required time Interval	09 29 ✓ 08 38 51 ✓	Ht. H. T. ~~or L. T.~~ Tabular correction Stage of tide above MLW	5.2 ✓ .2 ✓ 5.0 ✓	Feature bares Stage of tide above MLW Feature above MLW	 5.0 ✓ 	 62 S 1118 A
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		
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		

July 22, 1963

Computed by V P Cachowski   Checked by [signature]

M-2617-12

TIDE CO[hole]TATION

PROJECT NO. Ph- 6216 T- 12277

Spring R 6.0

Time and date of exposure 1015 - Sept. 1, 1962 Reference station CHARLESTON Mean range 5.1

Date of field inspection ~~1963~~ Dec. 1962 Subordinate station McClellanville, Jeremy Creek Ratio of ranges 0.0

	Time h.	Time m.
High tide	9	29
Low tide	15	36
Duration of rise or fall	6	07

	Height feet	Height x Ratio of ranges
High tide	0.0 5.2	5.2
Low tide	0.0 0.3	0.3
Range of tide		4.9

	Time h.	Time m.
High tide at Ref. Sta.	09	09
Time difference	+0	20
Corrected time at Subordinate station	9	29

	Time h.	Time m.
Low tide at Ref. Sta.	15	15
Time difference	+0	21
Corrected time at Subordinate station	15	36

	h. m.		feet		feet	Photo. No.
Time H. T. ~~or L. T.~~ Required time Interval	9 29 10 15 46	Ht. H. T. ~~or L. T.~~ Tabular correction Stage of tide above MLW	5.2 0.2 5.0	Feature bares Stage of tide above MLW Feature above MLW	5.0	62-S-1234A
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		
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		

M-2617-12

Computed by P.E. Smith Checked by V. [illegible] July 22, 1963