

T-12286

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (Photo)

Field No. Office No. T-12286

LOCALITY

State SOUTH CAROLINA

General locality WINYAH BAY TO CHARLESTON HARBOR

Locality LIGHTHOUSE CREEK

~~1963~~ 1962-1964

CHIEF OF PARTY

W. M. Reynolds, Chief of Field Party
J. Bull, Norfolk Regional Office

LIBRARY & ARCHIVES

DATE

FORM C&GS-181a
(12-61)U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T- 12286

PROJECT NO. (II):

21058

FIELD OFFICE (II):

Georgetown, S. C.

CHIEF OF PARTY

J. K. Wilson

PHOTOGRAMMETRIC OFFICE (III):

Portsmouth, Virginia

OFFICER-IN-CHARGE

J. Bull

INSTRUCTIONS DATED (II) (III):

Field: October 8, 1962
 Office: November 5, 1962
 Office Amendment 1: February 20, 1963
 " " 2: April 26, 1963
 " Supplement 1: October 10, 1963

METHOD OF COMPILATION (III):

Kelsh Plotter

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):

N. A. 1927

VERTICAL DATUM (III): MHW

~~MEANS OF DETERMINATION~~ 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):

BLOCK, 1900

LAT.:

32° 42' 18".590(572.6m)

LONG.:

79° 54' 24".502(638.2m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

Y = 318,930.88 ft.

X = 2,336,271.48 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		DATE: May 1963
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of Photography: February 2, 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 June 1963
CONTROL CHECKED BY (III): V. P. Cackowski		DATE June 1963
STEREOSCOPIC CONTROL STEREOSCOPIC CONTROL EXTENSION BY (III): J. L. Lisle		DATE April 1963
STEREOSCOPIC INSTRUMENT COMPILATION (III): R. D. Purvis	PLANIMETRY R. D. Purvis	DATE December 1963
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): Reviewed by: R. D. Purvis W. H. Shearouse		DATE December 1963 January 1964
SCRIBING BY (III): Reviewed by: L. Neterer R. R. Wagner		DATE November 1964 November 1964
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): I. I. Saperstein		DATE November 1964
REMARKS: FIELD EDIT 1963-1964		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Single lens Wild "S" and "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62-S-4246	April 2, 1962	0937	1:30,000 Diapositive	Not used for shoreline
62-S-4580	April 2, 1962	1436	1:30,000 "	
63-S-3065 thru 63-S-3067	Feb. 21, 1963	1113	1:30,000 "	1.8

Predicted TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: CHARLESTON		5.1	6.0
SUBORDINATE STATION: Fort Sumter		5.0	5.9
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): *W. M. Slawson, Atlantic Mar. Cntr.*DATE: *Nov. 1965*

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

9

RECOVERED:

7

IDENTIFIED:

2

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

None

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for hydro	June 1963	Superseded
Alongshore area field edited	November 1963	Superseded
Interior details added Compilation complete	February 1964	

6.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12286

Shoreline manuscript T-12286 is one of nine 1:10,000 scale manuscripts in Project 21058 (Winyah Bay to Charleston, South Carolina), which also contains six 1:20,000 scale manuscripts. The sketch on page 5 of this report shows the position of this manuscript in the project.

This is a stereoscopic instrument project in advance of hydrographic surveys of the area. 1:30,000 scale panchromatic photographs were taken with the S and W cameras on Sept. 1, 1962 ("S") and Feb. 21, 1963 ("W"). The stereo bridge was run and adjusted to field identified control in the Washington Office. Compilation was done with the Kelsh plotter. 1:10,000 scale ratio prints were processed and provided for photo hydro support.

The field operations preceding compilation included field inspection and identification of control to be used in the stereo bridge. The manuscripts were later field edited in conjunction with photo hydro support.

The compilation manuscript was a vinylite sheet 3.75 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
PROJECT PH-6216
MAP T-12286

Please refer to Field Inspection Report submitted with map
T-12281 for all information pertaining to this map.

William M. Reynolds
William M. Reynolds
Chief, Sub-unit Photo.
Party 6420

MAP T-12286

[illegible]

COMM-DC-57843

COMM-DC-57843

PHOTOGRAMMETRIC BRIDGE REPORT T-12286

The Photogrammetric Bridge Report submitted with T-12281.

COMPILATION REPORT T-12286

Submitted with T-12287.

48. GEOGRAPHIC NAMES LIST

Names are from USGS quadrangle JAMES ISLAND, S.C. furnished
by Geographic Names Section.

ATLANTIC OCEAN

BASS CREEK

BLOCK ISLAND

BLOCK ISLAND CREEK

CHARLESTON HARBOR

FIRST SISTER CREEK

FOLLY CREEK

FT. JOHNSON CREEK

GOAT ISLAND

HERON ISLAND

JAMES ISLAND

KINGS HIGHWAY

LIGHTHOUSE BAY

LIGHTHOUSE CREEK

LIGHTHOUSE INLET

LIGHTHOUSE POINT

LONG ISLAND

MORRIS ISLAND

OYSTER POINT

OCEANVIEW

PARROT POINT

PARROT POINT CREEK

RAT ISLAND

RAT ISLAND CREEK

SCHOONER CREEK

SECESSIONVILLE CREEK

SECOND SISTER CREEK

SOUTH CAROLINA

THREE TREES

GEOGRAPHIC NAMES

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

T-12286

and

T-12287

Atlantic Ocean

Bass Creek

Block Island Creek

Block Island

Charleston Harbor

Cummings Point

First Sister Creek

Fort Johnson Creek

Goat Island

Polly Creek

James Island

Kings Highway

Lighthouse Bay

Lighthouse Creek

Lighthouse Inlet

Long Island

Lighthouse Point

Morris Island

Oceanview

Oyster Point

Parrot Point

Parrot Point Creek

Rat Island

Rat Island Creek

Schooner Creek

Second Sister Creek

Seaside

Seaside Creek

Sessionville Creek

Sessionville

Three Trees

A. J. Wraight

A. J. Wraight
Chief, Geographic Names

T-12286

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			
50.		T-18363 12286	
1. PROJECTION AND GRIDS IIS	2. TITLE IIS 4a Classification label	3. MANUSCRIPT NUMBERS Unclass. IIS	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) XX	7. PHOTO HYDRO STATIONS XX	
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT W. O. Bridge	11. DETAIL POINTS Kelsh
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE IIS	13. LOW-WATER LINE IIS	14. ROCKS, SHOALS, ETC. IIS	15. BRIDGES XX
16. AIDS TO NAVIGATION IIS	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 IIS
CULTURAL FEATURES			
27. ROADS IIS	28. BUILDINGS IIS	29. RAILROADS XXX	30. OTHER CULTURAL FEATURES IIS
BOUNDARIES			
31. BOUNDARY LINES XX	32. PUBLIC LAND LINES XX		
MISCELLANEOUS			
33. GEOGRAPHIC NAMES IIS	34. JUNCTIONS IIS	35. LEGIBILITY OF THE MANUSCRIPT IIS	
36. DISCREPANCY OVERLAY XX	37. DESCRIPTIVE REPORT RRW	38. FIELD INSPECTION PHOTOGRAPHS IIS	39. FORMS IIS
40. REVIEWER I. I. Saperstein by Albert C. Rauck, Jr. I. I. Saperstein		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr. 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 H. P. Payois by Albert C. Rauck, Jr. Lowell D. Huter Jr.		SUPERVISOR Albert C. Rauck, Jr.	
43. REMARKS			

T - 12286

51. FIELD EDIT REPORT

No Field Edit or Report was submitted, neither were any *
discrepancies reported.

Albert C. Rauck, Jr.

* Refer to "Summary", page 6 (paragraph 3).
The manuscript was field edited.
see

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC REVIEW BRANCH

2. NON-FLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE REVISED
TO BE DISSEMINATED

REVIEW REPORT T-12286 & T-12287
SHORELINE
February 1966

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report (page 6)

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-12286

T-11307, 1:10,000 scale compiled in 1957 from 1955 photographs.

The ozalid Comparison Print notes

"Piling on T-11307 at Lat. $32^{\circ} 41.04'$, Long. $79^{\circ} 52.62'$. None were noted by the field inspector, or the field editor", near this position; and none were visible on the photographs. See Item 65, Discrepancy number 2.

T-12287

T-11308, 1:10,000 scale, compiled in 1957 from 1955 photography.

The ozalid Comparison Print notes that the submerged jetty at Lat $32^{\circ} 43.9$, west from Long. $79^{\circ} 51.3'$, was not shown on T-11308.

There are changes in the Atlantic Ocean shoreline of up to 150 meters.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

T-12286 and T-12287

JAMES ISLAND, S.C., USGS, 1:24,000 1959

An island on T-12286, at Lat. $32^{\circ} 45'$, Long. $79^{\circ} 53.5$. is the most noticeable difference.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

T-12286

BOAT SHEET HFP 10-1-63, 1:10,000 No date
" " PE 20-1-64B, 1:20,000 " "

The Comparison Print shows "piling" from PE 20-1-64B at Lat. $32^{\circ} 41.57'$, Long. $79^{\circ} 53.39'$ which covers an area about four times as large as the area shown on T-12286 as "Pier ruins". The area was covered by some May 1964 photography for PH-6407 to the south on which the size and position of the "piling" or "pier ruins" corroborate T-12286.

The shoreline of Rat Island at Lighthouse Inlet from Lat $32^{\circ} 41' 15''$ to $32^{\circ} 41' 22''$ was revised from the field edit for T-12609 of PH-6407. This was done to insure a junction with T-12609, which was field edited in Spring of 1965, about a year after the field edit for T-12286.

T-12287

HFP 10-1-63, 1:10,000 scale, no date
PE 20-1-64B, 1:20,000 scale, no date

In agreement, the shoreline for these boat sheets was from the Advance Manuscripts.

65. COMPARISON WITH NAUTICAL CHARTS

Chart 470, 1:20,000, 17th Edition Aug. 16, 1965
" 491, " 2nd " Feb. 15, 1965
" 792, 1:40,000, 3rd " Feb. 24, 1964

T-12286

The Comparison Print shows three discrepancies with the charts:

- 1- The sand island at Lat. $32^{\circ} 45'$, Long. $79^{\circ} 53.4'$ is not shown on the charts.
- 2- The "Pile" at Lat. $32^{\circ} 44.04'$, Long. $79^{\circ} 52.62'$ on Charts 470 and 491 is not on this map. The pile is not visible on the photographs, and it was not noted by the field inspector or the field editor. It is noted that Boat Sheet HFP 10-1-63, which shows considerable development in this area, does not show a "pile" or "piling" here. Also refer to Item 62.

65. COMPARISON WITH NAUTICAL CHARTS (Cont.)

- 3- Chart 491 shows a parallelogram of "Piling" at Lat. $32^{\circ} 41.6$, Long $79^{\circ} 53.4$, which is 4 or 5 times as large as the "pier ruins" visible on photograph 63 W 3066, or on photograph 64 S 1184, which was used for map T-12609 of Project 21420 to the south. No mention of these "pier ruins" was made by the field inspector or the field editor but the hydrographer shows "piling" in this area on Boat Sheet PE 20-1-64B, see Item 64 of this report.

T-12287

The Comparison Print shows one discrepancy with the charts:

The "pier ruins" on the map at Lat. $32^{\circ} 44.3'$, Long $79^{\circ} 52.45$, which end about 25 meters short of the H.W.L. is shown on the charts as a sound pier extending about 80 meters west from the H.W.L.. The "pier ruins" are noted on field photo 64 W 3068 by the field inspector; no change was noted by the field editor, or the hydrographic party, although Boat Sheet HFP 10-1-63 has a signal here, "ZOO" with the note "north end pier yel x bn".

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

These surveys comply with the instructions and meet the National Standards for Accuracy.

Future surveys should verify the delineation of discrepancies No. 2 and No. 3 on T-12286 and the discrepancy on T-12287 discussed in Item 65.

Reviewed by:

M. M. Slattery

Approved by:

J. D. Hollis
J. D. Hollis

Director, Atlantic Marine Center

Charles Shuman
Chief, Cartographic Branch 568
Photogrammetric

L. F. Woodcock
Chief, Photogrammetry Division

Chief, Chart Division

Chief, Operations Division

NOTES TO VERIFIER

T-12286, Project 21058 (Ph-6216)

BOAT SHEETS: HFP 10-1-63 and PE 20-1-64

See Item 64 on Page 16 of this report for two discrepancies with the boat sheets.

