# T-12613

## Descriptive Report

**Type of Survey**
- **SHORELINE** (Photogrammetric)

**Field No.** Office No. T-12613

## Locality

**State**
- SOUTH CAROLINA

**General locality**
- CHARLESTON TO SAVANNAH

**Locality**
- ST. HELENA SOUND

**19 64-65**

**Chief of Party**
- J. K. Wilson, Chief Photo Party 64/20
- J. Bull, Director, Atlantic Marine Center

## Library & Archives

**DATE**
5/17/67 chart 63750

6/14/67 ch 793 Tackle off after V. & R. "White"

1/20/68 ch 1239 Tarred off after V & R

Tackle ch 793 Letter
**DESCRIPTIVE REPORT - DATA RECORD**

**PROJECT NO. (III):**
21420 Job PH-6470

**FIELD OFFICE (III):**
Beaufort, South Carolina

**CHIEF OF PARTY**
Joseph K. Wilson

**PHOTOGRAMMETRIC OFFICE (III):**
Atlantic Marine Center

**OFFICER-IN-CHARGE**
J. C. Ball
Director, Atlantic Marine Center

**INSTRUCTIONS DATED (III) (IV):**
- September 28, 1964 Office
- December 22, 1964
- April 23, 1964 Field Office Amendment #1

**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):**
N.A. 1927

**VERTICAL DATUM (III):**
N. V. W. M.

**Elevations shown as (2) refer to mean high water**

**Elevations shown as (3) refer to sounding datum**

**i.e., mean low water or mean lower low water**

**REFERENCE STATION (III):**
MOR 3, 1933

**LAT.:**
32° 27' 38".613 (1189.4m)

**LONG.:**
80° 29' 00.979 (25.6m)

**PLANE COORDINATES (IV):**

**STATE:**
South Carolina

**ZONE:**
South

**y = 228,645.88 ft.**
**x = 2,159,284.16 ft.**

**ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (III) 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):**
- Matthew A. Stewart
- Jim D. Shea

**Date:** June–July 1964

**Mean High Water Location (III) (State date and method of location):**
- Air photo compilation - May 8, 1964
- Field Inspection - July, 1964

**Projection and Grids Ruled by (IV):**
- A. E. Roundtree

**Date:** Nov. 1964

**Projection and Grids Checked by (IV):**
- P. Hawkins

**Date:** Nov. 1964

**Control Plotted by (III):**
- A. Santillan

**Date:** Jan. 1965

**Control Checked by (III):**
- H. Cordell

**Date:** Jan. 1965

**Radial Plot or Stereoscopic Control Extension by (III):**
- L. Fritz (WSC)

**Date:**

**Stereoscopic Instrument Compilation (III):**
- Planimetry
- Contours
  - Inapplicable

**Date:**

**Manuscript Delineated by (III):**
- R. J. Pate

**Date:** March 1965

**Scribing by (III):**
- A. Shands

**Date:** Apr. 1966

**Photogrammetric Office Review by (III):**
- R. J. Pate

**Date:** Apr 1966

**Remarks:**
- Field Edit
- J. A. Brothers
- July 1965
### PHOTOGRAPHS (III)

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### TIDE (III)

**Predicted**

### REFERENCE STATION:

SAVANNAH RIVER ENTRANCE, GEORGIA

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### SUBORDINATE STATION:

EDISTO BEACH, EDISTO ISLAND, S.C.

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### SUBORDINATE STATION:

FRIPPS INLET, HUNTING ISLAND, S.C.

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### WASHINGTON OFFICE REVIEW BY (IV):

M. M. SLAVNEY, ATLANTIC MARINE CENT

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### PROOF EDIT BY (IV):

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### NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

| 30 | RECOVERED: 8 | IDENTIFIED: 3 |

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

| 5  | RECOVERED: 4 | IDENTIFIED: 2 |

### NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

none

### NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

none

### REMARKS:


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<td>March 1965</td>
<td>Superseded</td>
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| Field edit applied  
Compilation Complete | Dec. 1965 |         |
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12613

Shoreline manuscript T-12613 is one of twelve 1:20,000 scale manuscripts in Ph-6b07 (Charleston, S. C. to Savannah, Ga.), which also contains six 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 stereo-instrument project in advance of hydrographic surveys in the area. The photographs for T-12613 are panchromatic at 1:30,000 scale; the "W" photographs were taken March 13, 1964, and the "S" photographs were taken May 8, 1964. The stereo-bridge was run and adjusted to field identified control in the Washington Office. Compilation was done with the Kelsh Plotter. Ratio prints, at 1:20,000 scale were processed, and provided for photo-hydro support.

Field work preceding compilation consisted of control identification and field inspection was provided for compilation. The manuscript was field edited in July 1965.

The compilation manuscript was a vinylite sheet 7 minutes, 30 seconds in latitude, and 7 minutes, 30 seconds in longitude. The smooth manuscript was on cronaflex for registry and record after final review.
FIELD INSPECTION REPORT  
Project 21420 (Part 2)  
Georgia and South Carolina

For data pertaining to this Map see field inspection report filed under Map T-12615.

17 July 1964
Submitted by:

Joseph K. Wilson  
Chief, Photo Party 6420
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<th>LONGITUDE OR X-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
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Not Plotted, Form 526 "considered destroyed."
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1 FT. = 0.3048006 METER

COMPUTED BY: B.L. Barge
DATE: 12-28-64

CHECKED BY: BLB
DATE: 2-2-65

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

Submitted with T-12608.

31. DELINEATION
Kelsh plotter was used.
Field inspection was adequate.

32. CONTROL
See Aerotriangulation Report submitted with T-12608.

33. SUPPLEMENTAL DATA
None

34.Contours and Drainage
Contours inapplicable.
Drainage was delineated from office interpretation.

35. SHORELINE AND ALONGSHORE DETAILS
Shoreline inspection was adequate.
Low water line, shoals, shallow areas, and breakers were delineated from office interpretation.

36. OFFSHORE DETAILS
None

37. LANDMARKS AND AIDS
Appropriate copies of forms 567 for aids and landmarks have been submitted to the Washington office under date April 20, 1966.
38. **CONTROL FOR FUTURE SURVEYS**

   None

39. **JUNCTIONS**

   Junctions were made with T-12614 to the east and T-12617 to the south.

   No contemporary survey to the north or to the west.

40. **HORIZONTAL AND VERTICAL ACCURACY**

   No statement.

46. **COMPARISON WITH EXISTING MAPS**

   Comparison was made with USGS Quadrangle ST. HELENA SOUND, S.C.
   scale 1:24,000, dated 1956.

47. **COMPARISON WITH NAUTICAL CHARTS**

   Comparison made with chart No. 793, scale 1:40,000, 2nd edition

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY**

   None

**ITEMS TO BE CARRIED FORWARD**

   None

---

Approved and forwarded:

[Signature]

J. Bull

Director, Atlantic Marine Center
48. Geographic Name List

ASHEPOO RIVER
HUTCHERS ISLAND
FISH CREEK
HARBOR CREEK RIVER
HARBOR ISLAND
HARBOR POINT
HUNTING ISLAND
HUTCHINSON ISLAND
JEFFORD CREEK
JOHNSON CREEK
OTTER CREEK
OTTER ISLANDS
PINE ISLAND
PINE ISLAND CREEK
ST. HELENA SOUND
WARD CREEK
GEOGRAPHIC NAMES
Ph 21420 (St. Helena Sound, S.C.)
T-12613 (Shoreline)

* Ashe Island
  Ashepoo River
  Butchers Island
  Coffin Creek
  Coffin Point
  Coosaw River
  Fish Creek
* Fripps Point
  Harbor Point
  Harbor River
* Horse Island
  Hunting Island
  Hunting Island State Park
  Hutchinson Island
  Jefford Creek
  Johnson Creek
  Morgan Back Creek
* Morgan Island
  Morgan River
  Otter Creek
  Otter Islands
  Pine Island
  Pine Island Creek
  St. Helena Sound
* St. Helena Island
  Village Creek
  Ward Creek **

* Outside compilation limits
** Undisclosed in Geo. Name Index (St. Helena Sound)

A. J. Wraith
Geographic Names
49. NOTES FOR THE HYDROGRAPHER

None.
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<td>8. Bench marks</td>
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<td>35. Legibility of the manuscript</td>
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<td>36. Discrepancy overlay</td>
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<td>38. Field inspection photographs</td>
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<td>39. Forms</td>
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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: R.J. Pate
Signature of Supervisor: Albert C. Rauh, Jr.
Field Edit Report submitted with T-12608.
**U.S. DEPARTMENT OF COMMERCE**
**COAST AND GEODETIC SURVEY**

**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

**ATLANTIC MARINE CENTER**

**APRIL 20, 1966**

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. J. Pate.

J. Bull, Director, Atlantic Marine Center

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<th>SIGNAL NAME</th>
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<th>LONGITUDE</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
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<td>HUNTING ISLAND LIGHTHOUSE 1902</td>
<td></td>
<td>32 22</td>
<td>21.352 80 26</td>
<td>T-12613</td>
<td>July 1961</td>
<td>733</td>
</tr>
<tr>
<td></td>
<td>XS = 140 (150)</td>
<td></td>
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</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-16, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if reetermined, shall be reported on this form. Revisions shall be made for the old and new positions. The data should be compiled from charts of the area and not by individual field survey sheets. Information under each chart shall be given.
NONFLOATING AIDS OR LANDMARKS FOR CHARTS

ATLANTIC MARINE CENTER
APRIL 20, 1966

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks becharted on the charts indicated.
The positions given have been checked after listing by

R. J. Pate
J. Bull, Director, Atlantic Marine Center

Chief of Party

<table>
<thead>
<tr>
<th>STATE</th>
<th>SOUTH CAROLINA</th>
</tr>
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<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>LIGHT</td>
<td>(COMBAHEE BANK LIGHT, 1955)</td>
</tr>
<tr>
<td>LIGHT</td>
<td>(HUNTING ISLAND HARBOUR RIVER BRIDGE, CENTER LIGHT, 1955)</td>
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<tr>
<td></td>
<td>PELICAN BANK</td>
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<tr>
<td></td>
<td>DAYBEACON</td>
</tr>
<tr>
<td></td>
<td>EGG BANK</td>
</tr>
<tr>
<td></td>
<td>DAYBEACON</td>
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<td></td>
<td>A6</td>
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<td></td>
<td>DAYBEACON</td>
</tr>
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</table>

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 6-36, Fig. 79. Positions of charted landmarks and non-floating aids to navigation, if re-determined, 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
REVIEW REPORT T-12613
SHORELINE
June 1966

61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6)

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-10302; 1:10,000; Photos. March 1955; Field Inspection July to Sept. 1955
T-10303; " ; " 3/52, 3/55 & 11/55; Field Edit August 1960
T-10309; " ; " 3/55 & 11/55; Field Inspection Sept. 1955
T-10310; " ; " " " " " " " " " " " "

The area of this projection covered by T-10302 is outside the limits of photograph coverage.

The area covered by T-10303 is in agreement with some shoreline changes.

T-10309 shoreline is in fair agreement, but there are cable and pipeline differences. T-12613 shows overhead and submerged cables on the south side of the bridge across the HARBOR RIVER, and a submerged pipeline (water) on the north side of the swing span. T-10309 shows "overhead cable" on the north side of the bridge over JOHNSON CREEK and a "submerged cable" on the south side of the bridge.

Changes in the exposed Atlantic Ocean shoreline of HUNTING ISLAND and HARBOR ISLAND of up to 200 meters are evident with T-10310.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES

ST. HELENA SOUND, S. C., 1:24,000, U.S.G.S., 1956

The surveys are in fair agreement excepting the Atlantic Ocean shoreline of HARBOR ISLAND and HUNTING ISLAND.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There are no contemporary hydrographic surveys for this area.

65. COMPARISON WITH NAUTICAL CHARTS

The limits of photographic coverage prevented delineation of the western and central areas of ST. HELENA SOUND; see added note in Item 35 of this report.

The charted position of Pelican Bank Daybeacon A-2 is latitude 32°26.9', longitude 80°26.13'; about 415 meters WNW of the position on T-12613. No evidence has been found to indicate the daybeacon was moved between the date of chart publication and the date of location by the field inspector. The beacon was located by theodolite cuts from 4 triangulation stations.

The island at Egg Bank and the two islands south west of it on the chart are beyond the limits of photographic coverage, see note in Item 35 of this report. The field editor did not note anything concerning these islands.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

The survey complies with the instructions and meets the National Standards for Map Accuracy.

Future surveys should corroborate the position of Pelican Bank Daybeacon A-2, and the islands in the vicinity of Egg Bank.

Reviewed by:

M. M. Slavney

Approved by:

J. Boll, CAPT, USESSA
Director, Atlantic Marine Center

Approved by:

Chief, Cartographic Branch
Chief, Photogrammetry Division

Chief, Chart Division
Chief, Operations Division
NOTES TO VERIFIER
T-12613 Project 21420 (Ph-6407)
BOAT SHEET No. None

No contemporary hydrography.