## Descriptive Report

**Type of Survey**  
Planimetric

**Field No.**  
Ph-154  
**Office No.**  
T-10309

### Locality

**State**  
South Carolina  
**General Locality**  
St. Helena Sound  
**Locality**  
Harbor River

---

**Date**  
October 31, 1961

---

**Chief of Party**  
J.E. Waugh, Photogrammetric Party 1  
W.F. Deane, Balto. District Officer

**Library & Archives**
DATA RECORD

Ph-154

T-10309

Project No. (II): 11111

Quadrangle Name (IV): 11111

Field Office (II): Burton, S. C.
Chief of Party: J. E. Waugh

Photogrammetric Office (III): Baltimore, Md.
Officer-in-Charge: W. F. Deane

Instructions dated (II) (III): 16 August 1955 (Field and Office)
Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000
Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date:

Date registered (IV): 23 Feb 1968

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927
Vertical Datum (III): MHW
Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (a) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): BOR, 1933

Lat.: 32° 24' 18.102" (557.6 m)
Long.: 80° 26' 44.937" (1174.3 m)

Adjusted

Plane Coordinates (IV):

Y =

State: South Carolina
Zone: south

X =

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.
Areas contoured by various personnel
(Show name within area)
(I) (II) (III)
DATA RECORD

Field Inspection by (II): M. G. Moody
                      J. S. Winter
                          Date: Sept. 1955
                      Sept. 1955

Planetable contouring by (II):
                          Date:

Completion Surveys by (II):
                          Date:

Mean High Water Location (III) (State date and method of location): Photographs of March 1955 and November 1955. Field inspection.

Projection and Grids ruled by (IV): A. Riley
                          Date: 8/19/55

Projection and Grids checked by (IV): A. Riley
                          Date: 8/19/55

Control plotted by (III): J. C. Cregan
                          Date: 10/20/55

Control checked by (III): F. M. Wisiecki
                          Date: 10/21/55

Radial Plot by (III): E. L. Williams
                          Date: 11/8/55

          Stereoscopic Instrument compilation (III):
                          Date:
                                  Contours

Manuscript delineated by (III): J. B. Phillips
                                  J. A. Mooney
                          Date: 8/5/58

Photogrammetric Office Review by (III): H. R. Rudolph
                          Date: 10/24/58

Elevations on Manuscript
checked by (II) (III):
                          Date:
<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>49317, 49318</td>
<td>3/23/55</td>
<td>1434</td>
<td>1:10,000</td>
<td>0.0′ above MLW</td>
</tr>
<tr>
<td>49327</td>
<td></td>
<td>1444</td>
<td></td>
<td>0.2′</td>
</tr>
<tr>
<td>49360, 49361</td>
<td></td>
<td>1506</td>
<td></td>
<td>0.5′</td>
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<tr>
<td>49407 thru 49409</td>
<td></td>
<td>1541</td>
<td></td>
<td>1.6′</td>
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<td>52234</td>
<td>11/21/55</td>
<td>1034</td>
<td></td>
<td>5.2′</td>
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From Predicted Tide Tables

<table>
<thead>
<tr>
<th>Reference Station:</th>
<th>Savannah River Entrance</th>
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<tbody>
<tr>
<td>Subordinate Station:</td>
<td>Harbor River Entrance</td>
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<tr>
<td>Washington Office Review by (IV):</td>
<td>[Signature]</td>
</tr>
<tr>
<td>Final Drafting by (IV):</td>
<td>[Signature]</td>
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<td>Drafting verified for reproduction by (IV):</td>
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<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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<tbody>
<tr>
<td>6.9</td>
<td>8.1</td>
<td></td>
</tr>
<tr>
<td>6.1</td>
<td>7.2</td>
<td>Date: 2/2/60</td>
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</tbody>
</table>

Proof Edit by (IV):

<table>
<thead>
<tr>
<th>Date:</th>
</tr>
</thead>
</table>

Land Area (Sq. Statute Miles) (III): 11
Shoreline (More than 200 meters to opposite shore) (III): 14.0 mi.
Shoreline (Less than 200 meters to opposite shore) (III): 25.5 mi
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 7 Recovered: 5 Identified: 5
Number of BMS searched for (II): 2 Recovered: 2 Identified: 1
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): 1

Remarks:
Number of Third-Order Stations established: 8 Identified: 2
Number of Recoverable Topographic Stations established: 1
FIELD INSPECTION REPORT
Project 6154
Map T-10309

Please refer to the Field Inspection Report for Map T-10315 for all data pertaining to this map.

13 OCT 1955

Joseph K. Wilson
Cartographer

Approved & Forwarded:
13 OCT 1955

J. E. Waugh
ODR, O & GS
Chief of Party
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR $v$-COORDINATE</th>
<th>LONGITUDE OR $x$-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 - DATUM CORRECTION</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<tr>
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<td>Field Comp. 1927</td>
<td>N.A.</td>
<td>32 25</td>
<td>58.857</td>
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<td>1813.0 (35.2)</td>
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<td>EGG BANK PASSAGE DAYBN A 5, 1955</td>
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<td>32 25</td>
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<td>EGG BANK PASSAGE DAYBN A 7, 1955</td>
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<td>n</td>
<td>32 25</td>
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<td>605.5 (1242.7)</td>
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<td>EGG BANK PASSAGE DAYBN A 9, 1955</td>
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<td>374.6 (1473.6)</td>
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<td>EGG BANK PASSAGE DAYBN A 11, 1955</td>
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<td>65.0 (1783.2)</td>
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<tr>
<td>HARBOR RIVER DAYBN A 13, 1955</td>
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<td>32 23</td>
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<td>HARBOR RIVER DAYBN A 14, 1955</td>
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<td>32 22</td>
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<td>936.1 (912.1)</td>
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<td>962.8 (605.7)</td>
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<tr>
<td>BOR, 1933</td>
<td>G-1669 p. 64</td>
<td></td>
<td>32 24</td>
<td>18.102</td>
<td>557.6 (1290.6)</td>
<td>557.6 (1290.6)</td>
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<td>Sub. Pt. BOR, 1933</td>
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<td>446.5 (1401.7)</td>
<td>1118.2 (419.7)</td>
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<td>PAIMEETIO, 1933</td>
<td>G-1669 p. 64</td>
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<td>32 23</td>
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<td>32 22</td>
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<td>1147.8 (700.4)</td>
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</tbody>
</table>

1 FT. = 0.3048006 METER

COMPUTED BY J. C. Cregan DATE 10/18/55 CHECKED BY H. R. Rudolph DATE 10/18/55
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION INDEX</th>
<th>DATUM</th>
<th>LATITUDE OR $\nu$-COORDINATE</th>
<th>LONGITUDE OR $\lambda$-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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</thead>
<tbody>
<tr>
<td>Sub. Pt. MID, 1933</td>
<td>N.A. 1927</td>
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<td>80 28</td>
<td></td>
<td>1115.0</td>
<td>733.2</td>
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<tr>
<td>WHARF R. M. 2, 1933</td>
<td>&quot;</td>
<td>32 24</td>
<td>80 29</td>
<td>24.192</td>
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<td>Sub. Pt. WHARF R. M. 2, 1933</td>
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<td>32 24</td>
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<td>HUNTING ISLAND</td>
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<td>80 29</td>
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<td>CENTER LIGHT, 1955</td>
<td>&quot;</td>
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<td>80 27</td>
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<td>733.0</td>
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<td>32 24</td>
<td>80 27</td>
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<td>364.4</td>
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</table>

1 FT = 0.3048006 METER

COMPUTED BY: J. C. Cregan  DATE: 10/18/55  CHECKED BY: H. R. Rudolph  DATE: 10/18/55
The photogrammetric plot report is a part of Descriptive Report, T-10315.

31. **DELINEATION**

The map manuscript was delineated by graphic methods. Field inspection was adequate.

32. **CONTROL**

Refer to photogrammetric plot report, Item 23, and to letter to the Director, 16 March 1956 and reply of 27 March 1956. Copies of these letters are attached to this report.

33. **SUPPLEMENTAL DATA**

An annotated copy of AMS, St. Helena Sound quadrangle was used for geographic names.

34. **CONTOURS AND DRAINAGE**

Contours: Not applicable. 
Drainage: No comment.

35. **SHORELINE AND ALONGSHORE DETAILS**

Shoreline inspection was adequate. The northern tip of Harbor Island was revised using November 1955 photographs. The low-water line in St. Helena Sound was delineated by office interpretation on photographs taken at a very low stage of tide. There is some disagreement with field inspection which was on photographs taken at a higher stage of tide. The low-water lines in Harbor River are by office interpretation based on field inspection.

36. **OFFSHORE DETAILS**

No comment.

37. **LANDMARKS AND AIDS**

One Form 567 for two landmarks is being submitted with this report.

A Form 567 for seven aids to navigation located by triangulation was submitted by field inspection party.
38. **CONTROL FOR FUTURE SURVEYS**

One Form 524, for SEAL, 1955, has been submitted in December 1955 and furnished to the hydrographic party. It is not listed under Item 49.

39. **JUNCTIONS**

Junctions have been made with T-10302 to the north, T-10309 to the west, T-10311 to the east and T-10315 to the south.

40. **HORIZONTAL AND VERTICAL ACCURACY**

Refer to photogrammetric plot report.

41 thru 45. Not applicable.

46. **COMPARISON WITH EXISTING MAPS**

This survey has been compared with:

1. AMS, St. Helena Sound quadrangle dated 1948, scale 1:50,000.
2. T-5187, Harbor River, compiled from 1933 photographs, scale 1:20,000.

47. **COMPARISON WITH NAUTICAL CHARTS**

This survey has been compared with chart 793, scale 1:60,000, edition of September 1957, revised 1/23/56.

Items to be applied to nautical charts immediately: None.
Items to be carried forward: None.

Respectfully submitted  
6 August 1958

Frank J. Tarcza
Super. Carto. (Photo.)

Approved and forwarded

William F. Olene
William F. Deane,  
CDR Q&GS
Baltimore District Officer
48. GEOGRAPHIC NAME LIST

Beaufort County

Coffin Creek
Coffin Point Cemetery

Egg Bank

Harbor Island
Harbor River
Hunting Island
Hunting Island State Park

Intracoastal Waterway

Johnson Creek

Sea Side Road
St. Helena Island
St. Helena Sound

U.S. 21 (Hwy.)

Village Creek

Wards Creek
Wards Landing

Geographic Names Section
2 September 1959
Baltimore District Office
518 East 32nd St., Baltimore 18, Maryland

16 March 1956

To: The Director,
Coast and Geodetic Survey,
Washington 25, D. C.

Subject: Description of Triangulation Station WHARF

Description of Triangulation station WHARF, card 689, page 93 of book No. 203, South Carolina Coast shows the initial for directions to the reference marks to be BUTCHERS ISLAND.

The following paragraph is quoted from a letter from the field, Comdr. Ira R. Rubottom, Chief of Party:

"It appears on the ground that the directions to the reference marks at WHARF were observed from HUNTING ISLAND LIGHTHOUSE instead of from BUTCHERS ISLAND as indicated in the published description. This theory could not be positively verified, however, as the location of station WHARF could not be re-established from the reference marks and occupied since it is now under water."

Assuming that HUNTING ISLAND LIGHTHOUSE is truly the initial for the reference marks, the field identification notes for WHARF R.M. 2, 1933, fit the radial plot perfectly.

Please inform this office if the correct initial for reference marks at this station can be verified.

E. H. Kirsch,
Capt. C&GS
Baltimore District Officer

cc:70

k
To: Baltimore District Officer  
Coast and Geodetic Survey  
518 East 32nd St.,  
Baltimore 18, Maryland  

Subject: Description of triangulation station WHARF

In reply to your letter of 16 March 1956, examination of the horizontal-angle books of C. A. Egner 1933 shows that HUNTING ISLAND LIGHTHOUSE was used as the initial in the list of directions for the reference marks at triangulation station WHARF. This confirms your deduction that HUNTING ISLAND LIGHTHOUSE was used as the initial and not BUTCHERS ISLAND.

/s/ Robert W. Knox,  
Acting Director
PHOTOGRAMMETRIC OFFICE REVIEW
T. 10309


CONTROL STATIONS

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines H.R.R. 32. Public land lines

MISCELLANEOUS

40. Henry R. Rudolph
Reviewer

Joseph Stirling
Supervisor, Review Section or Unit

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

Supervisor

43. Remarks:

M-2623-12
**U.S. DEPARTMENT OF COMMERCE**  
**COAST AND GEODETIC SURVEY**  

**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

**Burton, South Carolina**  
19 Sept. 1956

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

The positions given have been checked after listing by J. K. Wilson

/s/ J. E. Waugh  
Chief of Party

<table>
<thead>
<tr>
<th>STATE</th>
<th>SOUTH CAROLINA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CHARTING NAME</strong></td>
<td><strong>DESCRIPTION</strong></td>
</tr>
<tr>
<td>DAYBN</td>
<td>Egg Bank Passage Daybeacon A4, 1955</td>
</tr>
<tr>
<td>DAYBN</td>
<td>A 5</td>
</tr>
<tr>
<td>DAYBN</td>
<td>A 6</td>
</tr>
<tr>
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<td>A 13</td>
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<td>DAYBN</td>
<td>A 14</td>
</tr>
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</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. 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

Com-D D 28356
TO BE CHARTED

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

The positions given have been checked after listing by

<table>
<thead>
<tr>
<th>State</th>
<th>South Carolina</th>
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<tbody>
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<td>Charting Name</td>
<td>Description</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>TINGER</td>
<td>Steel and concrete ht 13' (1977) (Dusting Island Lighthouse, 1902)</td>
</tr>
<tr>
<td>(Aband. Lighthouse)</td>
<td></td>
</tr>
<tr>
<td>ALEXANDER</td>
<td>Steel ht 66' 79'</td>
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</table>

<table>
<thead>
<tr>
<th>Latitude</th>
<th>Longitude</th>
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</thead>
<tbody>
<tr>
<td>32 22 N</td>
<td>80 25 W</td>
</tr>
<tr>
<td>32 26 N</td>
<td>80 28 W</td>
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<table>
<thead>
<tr>
<th>Method of Location and Survey No.</th>
<th>Date of Location</th>
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</thead>
<tbody>
<tr>
<td>Tri. 1902 e</td>
<td>793, 1211</td>
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</table>

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

The positions given have been checked after listing by F.J. Taraza.

<table>
<thead>
<tr>
<th>STATE</th>
<th>SOUTH CAROLINA</th>
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</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>TOWER</td>
<td>Steel and masonry ht=131' (137')</td>
</tr>
<tr>
<td></td>
<td>(Hunting Island Lighthouse, 1902)</td>
</tr>
<tr>
<td></td>
<td>(Aband. L.H.)</td>
</tr>
<tr>
<td>WINDMILL</td>
<td>Steel ht = 66' (79')</td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. 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
Refer to Descriptive Report T-10306 for a Review Report covering this manuscript.
# Nautical Charts Branch

## Survey No. **T-10309**

### Record of Application to Charts

<table>
<thead>
<tr>
<th>Date</th>
<th>Chart</th>
<th>Cartographer</th>
<th>Remarks</th>
</tr>
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</table>
| 1-4-62 | 1239  | E.M. Beazenje | Before After Verification and Review  
Partly Offsh.  
No Revision |
| 7-7-64 | 793   | J.H. Eaton   | Before After Verification and Review  
12M  |

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under “Comparison with Charts” in the Review.