12811

Form 504
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey: SHORELINE (Photogrammetric)
Field No. Office No. T-12811

LOCALITY
State: SOUTH CAROLINA - GEORGIA
General locality: CHARLESTON, S. C. TO SAVANNAH, GA.
Locality: SAVANNAH BEACH

1964-65

CHIEF OF PARTY
Joseph K. Wilson, Chief, Photo Party 6420
Allen L. Powell, Director, A.M.O.

LIBRARY & ARCHIVES

DATE
PROJECT NO. (II):
Job PH-6107

FIELD OFFICE (III):
Beaufort, South Carolina

CHIEF OF PARTY
Joseph K. Wilson

PHOTOGNAMETRIC OFFICE (III):
Atlantic Marine Center

OFFICER-IN-CHARGE
Allen L. Powell
Director

INSTRUCTIONS DATED (III):
April 23, 1964
September 28, 1964
December 22, 1964
February 17, 1974

METHOD OF COMPILATION (III):
Kelsch

MANUSCRIPT SCALE (III):
1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
6,000
1:30,000 Pantographed to 1:10,000

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):
MLW

REFERENCE STATION (III):
WEST BASE (USB) 1932

WATER LEVEL 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

LAT.: 32° 01' 08.568" (263.9)
LONG.: 80° 51' 50.032" (1313.0)

PLANE COORDINATES (IV):

STATE
South Carolina

ZONE
South

67,594.27 ft. x = 2,042,189.36 ft.

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGNAMETRIC OFFICE,
OR (IV) WASHINGTON OFFICE.

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.
<table>
<thead>
<tr>
<th><strong>FIELD INSPECTION BY (III):</strong></th>
<th>DATE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jim D. Shea</td>
<td>May-June 1964</td>
</tr>
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<table>
<thead>
<tr>
<th><strong>MEAN HIGH WATER LOCATION (III) [STATE DATE AND METHOD OF LOCATION]:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Photo Compilation&lt;br&gt;Date of photography: March 13, 1964</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>PROJECTION AND GRIDS RULED BY (IV):</strong></th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. E. Roundtree</td>
<td>1-15-65</td>
</tr>
</tbody>
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<table>
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<tr>
<th><strong>PROJECTION AND GRIDS CHECKED BY (IV):</strong></th>
<th>DATE</th>
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<tr>
<td>P. Hopkins</td>
<td>1-15-65</td>
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<thead>
<tr>
<th><strong>CONTROL PLOTTED BY (III):</strong></th>
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<tbody>
<tr>
<td>A. Santillan</td>
<td>Jan. 1965</td>
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<table>
<thead>
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<th><strong>CONTROL CHECKED BY (III):</strong></th>
<th>DATE</th>
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<tbody>
<tr>
<td>H. Cordell</td>
<td>Jan., 1965</td>
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<table>
<thead>
<tr>
<th><strong>RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):</strong></th>
</tr>
</thead>
</table>
| L. Fritz (WSC)  
J. T. Gerlach (WSC) |

<table>
<thead>
<tr>
<th><strong>STEREOSCOPIC INSTRUMENT COMPILATION (III):</strong></th>
<th><strong>PLANIMETRY</strong></th>
<th><strong>DATE</strong></th>
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<tr>
<td></td>
<td>L. Neterer</td>
<td>July 1965</td>
</tr>
<tr>
<td>CONTOURS</td>
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<tr>
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<tbody>
<tr>
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<tr>
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<tr>
<th><strong>PHOTOGRAMMETRIC OFFICE REVIEW BY (III):</strong></th>
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<tbody>
<tr>
<td>R. J. Pate</td>
<td>April 1966</td>
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<table>
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<th><strong>REMARKS:</strong></th>
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</thead>
</table>

### DESCRIPTIVE REPORT - DATA RECORD

**Camera (Kind or Source)**: 1/4 Camera

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tr>
<td>64 W 4334</td>
<td>13 March 1964</td>
<td>1021</td>
<td>1:30,000</td>
<td>3.6</td>
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<tr>
<td>4335</td>
<td>&quot;</td>
<td>1022</td>
<td></td>
<td>3.6</td>
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<tr>
<td>4336</td>
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<td></td>
<td>3.6</td>
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<tr>
<td>4337</td>
<td>&quot;</td>
<td>1023</td>
<td></td>
<td>3.6</td>
</tr>
<tr>
<td>64 W 4324 &amp; 4325</td>
<td>&quot;</td>
<td>1009</td>
<td></td>
<td>4.0</td>
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</table>

**Tide**

- **Predicted**: 07-15-71

**Reference Station**: Savannah River Entrance

**Ratio of Ranges**: 6.9
**Spring Range**: 8.1

**Number of Recoverable Photo Stations Established**: None

**Number of Temporary Photo Hydro Stations Established**: None

---

**Note**: The form is filled out with detailed information about photographic records and tide data, including dates, times, scales, and stages of tide. The form also includes references to specific stations and the dates of review and editing.
<table>
<thead>
<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Compilation complete pending field edit</td>
<td>July 1965</td>
<td></td>
</tr>
<tr>
<td>Field edit</td>
<td>July 1971</td>
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SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12811

This shoreline manuscript, scale 1:10,000, is one of 18 maps that comprise Project PH-6407, Charleston, South Carolina to Savannah, Georgia. The sketch on page 5 of this report shows the location of T-12811 in the project.

This is a stereo-instrument project. All of the photographs for T-12811 were 1:30,000 scale panchromatic, taken with the 'W' camera on March 13, 1964. The stereo-bridge was run and adjusted to field identified control at the Rockville Science Center. Compilation was done with the Kelsh Plotter at the Atlantic Marine Center. Ratio prints at 1:10,000 scale were processed for photo-hydro support, but hydrography was not accomplished as of July 1971.

Field work before compilation consisted of control identification and field inspection. This map was not field edited.

Final review was done at the Atlantic Marine Center in July 1971.

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 4 minutes 45 seconds in longitude.

A cronaflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.
This report is submitted for nine Shoreline 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 Savannah River and Northeastward to a point just South of Edisto Beach. It includes the outside shoreline and a part of Savannah River, Port Royal Sound and St. Helena Sound. The photograph coverage is not complete for each map, therefore, in accordance with instructions from Washington, field inspection has been completed to the limits of the photographs.

The portion bordering the Atlantic Ocean consists of high sand dunes along the ocean with marsh and swamp behind.

The town of Savannah is located just West of the most Southern maps whereas the town of Beaufort is centrally located. Most of the land is owned by private interests and in many cases, special permission is required to enter the properties.

The photographs were taken in the spring of 1964. The photographic quality was good for the entire area. The 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:

<table>
<thead>
<tr>
<th>T-12612</th>
<th>T-12614</th>
<th>T-12615</th>
<th>T-12616</th>
<th>T-12617</th>
<th>T-12618</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-W-4269</td>
<td>64-S-1202</td>
<td>64-W-4298 thru 4302</td>
<td>64-W-4279</td>
<td>64-W-4271</td>
<td>64-W-4319</td>
</tr>
<tr>
<td>4270</td>
<td>1203</td>
<td>4289 thru 4291 thru thru thru</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64-S-1206</td>
<td></td>
<td>4307 thru 4311 thru 4283 thru 4273 thru 4320</td>
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<table>
<thead>
<tr>
<th>T-12619</th>
<th>T-12620</th>
<th>T-12621</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-W-4315 thru 64-W-4318</td>
<td>64-W-4324 thru 64-W-4327</td>
<td>64-W-4321 thru 64-W-4323</td>
</tr>
<tr>
<td>4286 thru 4288</td>
<td>4329 thru 4334</td>
<td>4335 thru 4337</td>
</tr>
</tbody>
</table>

3. HORIZONTAL CONTROL

Horizontal control recovery and identification has been completed in accordance with Project Instructions.

The identification of horizontal control was accomplished on enlarged sections of the photographs. This was the first time our party had used the enlarged sections for this purpose. In most cases there was no difficulty and it is believed that the substitute points selected enhanced the accuracy and quality of the points. However, there was difficulty at one station (VENUS 2). The station was pricked direct as there was a small steel stand
over the mark. The substitute point could only be seen good on two of the four photographs. This point has been marked doubtful.

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

**T-12613**

ASH 1919  
BEX (BEACON NO 1), 1934  
BUTCHERS ISLAND 1897  
CENTRAL 1913  
COMBAHEE BANK LIGHT 1955  
EGG 4, 1933  
EGG BANK PASSAGE DAYBEACON A11, 1955  
EGG BANK PASSAGE DAYBEACON A9, 1955  
EGG BANK PASSAGE DAYBEACON A7, 1955  
EGG BANK PASSAGE DAYBEACON A5, 1955  
EGG BANK PASSAGE DAYBEACON A4, 1955  
GREEN BEACON 1933  
GUS (BEACON NO 2) 1934  
HARBOUR RIVER DAYBEACON A14, 1955  
HUTCHINSON 2, 1933  
PALMETTO 1933  
PELICAN BANK DAYBEACON A2, 1955  
PELICAN BANK DAYBEACON A1, 1955  
RED BEACON 1933  
SOUND 1933  
WHARF 1933

**T-12614**

ED 1921

**T-12615**

ARCH 1921  
ARCH CREEK BEACON 1933  
BASE I (USB) 1931  
BEAUFORT RIVER LIGHT 17, 1955  
BEAUFORT RIVER LIGHT 13A, 1955  
BUG 1933  
BROOKLYN 1859  
CHOW 1933  
FORT FREMONT OBSERVATION TOWER 1931  
DOS 1931  
FORT FREMONT BEACON 1931  
NORTH 1931  
PARRIS ISLAND WATER TANK (WHITE WITH BLACK TOP) 1932  
PARRIS ISLAND, LOW WHITE STACK 1932  
PARRIS ISLAND SILVER WATER TANK 1932  
PARRIS ISLAND MARINE CORPS RECRUIT DEPOT AIR STRIP BEACON 1955  
PARRIS ISLAND HIGH BRICK STACK 1932  
PARRIS ISLAND STACK (HIGHEST OF TWINS) 1932
PARRIS ISLAND MARINE CORPS, RECRUIT DEPOT, AIR CONTROL TOWER 1955
PARRIS (USE) 1931
PORT ROYAL SOUND LIGHT NO 1, 1955
SKULL CREEK DAYBEACON 4, 1955
SKULL CREEK ENTRANCE LIGHT 3, 1955
SKULL CREEK DAYBEACON 5, 1955
SPX 1933
TRIANGULAR BEACON 1931

T-12616
BULL 1933
MID 1931
TIDE 1933

T-12617
STORY RIVER DAYBEACON A16, 1955
TEMPORARY 1955

T-12618
BACK 1931
BULLPOINT FRONT RANGE 1931
BUCK 2, 1931
FRON 1931
MAG 1931
MARSH 2, 1931
MARTIN 1933
NO 9 (USE) 1931
OCHO 1921
SIOTE 1931
SOUTH 1931
ULMER 1933

T-12619
HILTON FRONT 1931
STONEY PLANTATION, BAPTIST CHURCH 1931
TON 1931
TON 2, 1955
WAL 3, 1955

T-12620
BARNWELL PLACE LIGHT (OGLETHORPE REAR RANGE LIGHT) 1913
BLOODY 1932
BUSH (USE) 1932
ELBA ISLAND FLATS, LIGHT NO 11, 1932
FIELDS CUT NO 1 (USE) 1932
LOWER FLATS REAR RANGE LIGHT 1932
IAZAGETTO CREEK HIGHWAY BRIDGE CENTER OF SWING SPAN 1932
LONG ISLAND CROSSING FRONT RANGE LIGHT 1933
LONG ISLAND CROSSING REAR RANGE LIGHT 1933
NEW CHANNEL REAR RANGE LIGHT 1932
NORTH CORNER OF OLD TOWER 1932
PERRY (USE) 1934
PALMETTO 1933
QUARANTINE TANK PINIAL 1932
QUARANTINE (USE) 1932
TOPO 1934
TYBEE KNOLL CUT FRONT RANGE LIGHT 1932
UPPER PLATS FRONT RANGE TARGET 1932
UPPER PLATS REAR RANGE LIGHT 1932
WALLS CUT BEACON NO 6, 1932
WALLS CUT BEACON NO 8, 1932
WILMINGTON 1877
WILMINGTON ISLAND BLACK VENTILATOR, OGLETHORPE HOTEL 1933
WRIGHT 1932

T-12621

BRAD 1931
DO 1916
FORT SCREAM WATER TANK 1932
SAVANNAH BEACH, CASINO SOUTH COPOLA 1913
SAVANNAH BEACH, CASINO NORTH COPOLA, 1913
TYRRISA TANK 1932

4. VERTICAL CONTROL

A search was made for all tidal bench marks within the limits of these maps. Form 681A was submitted for each mark. One mark in each group was identified on the photograph, except in a few cases where there was no coverage.

5. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage is almost 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. The photography is recent, therefore, there have been no great changes.

8. **OFFSHORE FEATURES**

Several piling etc. were located either by sextant fix or theodolite cuts during this survey.

The obstruction reported at Lat. 32-01 - Long. 80-50 chart 1240, could not be seen at low-water.

Your attention is invited to the restricted area in Broad River, near Archers Creek. It is believed that the restricted area should be enlarged on the charts since most of this portion of the river is under fire by the marine guns.

9. **LANDMARKS AND AIDS**

All Nautical Landmarks have been investigated in the field and are reported on form 567.

All fixed Aids to Navigation were investigated and are reported on form 567. Third-order positions were obtained for the following:

- Tybee Knoll Cut Range Rear Light, 1964
- Tybee Range Front Light, 1964
- Jones Island Range Front Light, 1964
- Port Royal Entrance, Channel Front Range Light, 1964

Four private aids in the Calibogue Sound area are recommended for charting. The aids were located by several methods; Cuts from triangulation stations and photo points, by sextant fixes, or identified directly on the photograph.

10. **BOUNDARIES, MONUMENTS AND LINES**

There have been no boundary lines shown.

11. **OTHER CONTROL**

There were no topographic stations established.

12. **OTHER INTERIOR FEATURES**

All roads were classified in accordance with Photogrammetry Instructions number 56.

Field Inspection of buildings was done in accordance with Photogrammetry Instructions Number 54, revised September 22, 1961.

There were no bridge or cable clearances measured during this survey.

Marsh and Swamp limits have been shown on the photographs where coverage was available.
13. **GEOGRAPHIC NAMES**

The investigation of Geographic Names will be handled slightly different from that called for in Project Instructions. This change in procedure was recommended by Dr. A. J. Wraight, Chief, Geographic Names Branch.

A systematic and complete investigation of Geographic Names was made from Savannah River North and East to Latitude 32-15. The remainder of the project will be investigated for discrepancies and New Names only.

The change in procedure is due to the recent investigation of names in the project during the years 1955, 1956 and 1957.

The Geographic Names Reports will be submitted at a later date.

14. **SPECIAL REPORTS AND SUPPLEMENTAL DATA**

Transmitting letters for Horizontal Control Identification were mailed to Washington separately for Part 1 and Part 2 of the Project. Part 1 was mailed on 10 July 1964 and Part 2 on 7 July 1964.

Form 567 will be forwarded with this report.

17 July 1964

Submit by:

Joseph K. Wilson
Chief, Photo Party 6420
21. **Area Covered**

The bridging covers the Atlantic Coast Shoreline of an area between Charleston, South Carolina to Savannah, Georgia.

22. **Method**

Nine strips were bridged on the Zeiss C-5 and C-9 stereoplanigraphs to provide control for compilation of shoreline.

<table>
<thead>
<tr>
<th>Strip No.</th>
<th>Photos</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>64S 1206 - 1227</td>
</tr>
<tr>
<td>2</td>
<td>64W 4269 - 4273</td>
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<tr>
<td>3</td>
<td>64W 4276 - 4284</td>
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<tr>
<td>4</td>
<td>64W 4306 - 4312</td>
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<td>5</td>
<td>64W 4296 - 4302</td>
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<td>6</td>
<td>64W 4290 - 4294</td>
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<tr>
<td>7</td>
<td>64W 4314 - 4327</td>
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<tr>
<td>8</td>
<td>64W 4332 - 4337</td>
</tr>
<tr>
<td>9</td>
<td>64W 4286 - 4290</td>
</tr>
</tbody>
</table>

Strip #2 consisting of photos 64S 1184 - 1203 was not bridged. However, tie points were dropped from Strip #1 to provide control for graphic compilation of the area.

All strips were 1:30,000 scale photography.

23. **Adequacy of Control**

Control positions were adequate for bridge adjustment. However, the northeast end of Strip #1 was run as a separate bridge due to difficulty in holding the control. Both segments had control station Hernan in common. Tie points between the two bridges were averaged.

Strip #7 was also interrupted due to a water gap and divided into two bridges, #7 and #10.

Strip #2 was ended at control station Queen because Station Finney (520) would not hold. This was probably due to a gap in elevation.
All other points held within accuracy requirements.
All common pass points between the strips were averaged.

24. Supplemental Data

A number of objects identified as landmarks were used as check control stations and held within accuracy requirements.

25. Photography

Photography was adequate as to coverage, overlap and definition.

26. Recommendations

Ratio prints of Strip #2, at a scale of 1:20,000, have been ordered and will be submitted separately.

Submitted by:

\[ \text{Signature} \]

Lawrence Fritz
John T. Garlach

Approved by:

\[ \text{Signature} \]

John D. Perrow, Jr.
Aerotriangulation Report
Project No. 21420
Charleston, S.C. to Savannah, Ga.

Amendment to Report of Nov. 1964

Strip 9-A, consisting of photos 64-W-4329 through 4332, was bridged using three triangulation stations as control. Station Proctor Use, 1932 (SS #1) was of very poor image quality and could not be held in the bridge. A secondary straight line adjustment was applied to the junction area of Strips 8 and 9. This junction is weak but within National Map Accuracy Standards.

Submitted by:

John D. Perrow, Jr.
AEROTRIANGULATION SKETCH
PROJECT 21420
SHORELINE MAPPING
GEORGIA & S.C. CAROLINA
CHARLESTON TO SAVANNAH
9-2-64
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION INDEX</th>
<th>DATUM</th>
<th>LATITUDE OR Y-COORDINATE</th>
<th>LONGITUDE OR X-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>PCs -S, P-16</td>
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<td>FORT PULASKI Flagpole 1964</td>
<td>CONTROL FOR BRIDGING DATA</td>
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<td>70,423.72</td>
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<td>2,033,827.30</td>
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<td>PHOTOSTAT #18</td>
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<td>32° 02' 39.673&quot;</td>
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<td>80 51 10.688</td>
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<td>QUARANTINE (USE) 1932</td>
<td>GPS P-39</td>
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<td>75,013.12</td>
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<td>2,032,572.99</td>
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<td>FORT PULASKI 1963</td>
<td>PHOTOSTATS #13</td>
<td></td>
<td>32° 01' 38.253&quot;</td>
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<td>80 53 27.518</td>
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<td>BLOODY POINT RANGE FRONT LIGHT 1964</td>
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<td>80 19 10.167</td>
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<td>80 50 23.085</td>
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<td>2,047,768.72</td>
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<td>JONES ISLAND RANGE FRONT LIGHT 1964</td>
<td>FIELD FORM 709</td>
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<td>75,933.25</td>
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<td>2,045,571.36</td>
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<td></td>
</tr>
<tr>
<td>SAVANNAH BEACH, MUNICIPAL WATERTANK 1964</td>
<td></td>
<td></td>
<td>32° 00' 39.720&quot;</td>
<td></td>
<td>80 50 31.628</td>
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</table>

1 FT = 0.3048008 METER

COMPUTED BY ELB DATE 2-3-65 CHECKED BY RHB DATE 2-3-65
COMPILATION REPORT
T-12811

31. DELINEATION
The Wild 8-8 was used. Field inspection was adequate. Photography was satisfactory.

32. CONTROL

33. SUPPLEMENTAL DATA
None

34. CONTOURS AND DRAINAGE
Inapplicable

35. SHORELINE AND ALONGSHORE DETAILS
The shoreline inspection was adequate and was delineated accordingly.

36. OFFSHORE DETAILS
None

37. LANDMARKS AND AIDS
Form 567 for Landmarks and Aids have been submitted under date April 28, 1966.
38. **CONTROL FOR FUTURE SURVEYS**

None

39. **JUNCTIONS**

Junctions have been made with T-12620, scale 1:20,000, to the west and T-12621, scale 1:20,000 to the north and east. There is no contemporary survey to the south.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No statement

46. **COMPARISON WITH EXISTING MAPS**

Comparison has been made with U.S.G.S. Quadrangle FORT PULASKI, S. C. - GA., scale 1:24,000, dated 1955, and A.M.S. Quadrangle SAVANNAH BEACH NORTH, GA. - S. C., scale 1:25,000, dated 1955.

47. **COMPARISON WITH NAUTICAL CHARTS**

Comparison has been made with Chart 1240, scale 1:80,000, 6th edition, dated April 20, 1964; Chart 1241, scale 1:80,000, dated November 27, 1961; and Chart 440, scale 1:40,000, 30th edition, Dated December 7, 1964.

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

None

**ITEMS TO BE CARRIED FORWARD**

None

Submitted:

R. J. Pate
Cartographic Tech.

Approved:

Allen L. Powell, RADM, NOAA
Director, Atlantic Marine Center
GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6407 (South Carolina)
T-12811

Atlantic Ocean
Chimney Creek
Cockspur Island
Crab Creek
Estill Hammock
Fort Pulaski
Fort Screven
Horse Pen Creek
Horse Pen Hammock
Lazaretto Creek
Oyster Bed Island

* Savannah Beach (beach)
  Savannah Beach (town)
  Savannah River
  Sazarine Creek
  South Channel
  Spring Island
  Tybee Island
  Tybee Knoll Cut Range
  Tybee Knoll Spit
  Tybee Range
  Tybee Roads

Approved by:

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Cartographic Technician

* Name not applied to map, since town name is the same.
T-12811

49. NOTES FOR THE HYDROGRAPHER

None.
<table>
<thead>
<tr>
<th>1. PROJECTION AND GRIDS</th>
<th>2. TITLE</th>
<th>3. MANUSCRIPT NUMBERS</th>
<th>4. MANUSCRIPT SIZE</th>
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**CONTROL STATIONS**

<table>
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<tr>
<th>5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY</th>
<th>6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)</th>
<th>7. PHOTO HYDRO STATIONS</th>
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<table>
<thead>
<tr>
<th>8. BENCHMARKS</th>
<th>9. PLOTTING OF SEXTANT FIXES</th>
<th>10. PHOTOGRAMMETRIC PLOT REPORT</th>
<th>11. DETAIL POINTS</th>
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<tr>
<td>XX</td>
<td>XX</td>
<td>BRIDGE (WO)</td>
<td>KELSH</td>
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**ALONGSHORE AREAS (Nautical Chart Data)**

<table>
<thead>
<tr>
<th>12. SHORELINE</th>
<th>13. LOW-WATER LINE</th>
<th>14. ROCKS, SHOALS, ETC.</th>
<th>15. BRIDGES</th>
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<table>
<thead>
<tr>
<th>16. AIDS TO NAVIGATION</th>
<th>17. LANDMARKS</th>
<th>18. OTHER ALONGSHORE PHYSICAL FEATURES</th>
<th>19. OTHER ALONGSHORE CULTURAL FEATURES</th>
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</thead>
<tbody>
<tr>
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**PHYSICAL FEATURES**

<table>
<thead>
<tr>
<th>20. WATER FEATURES</th>
<th>21. NATURAL GROUND COVER</th>
<th>22. PLANETABLE CONTOURS</th>
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<table>
<thead>
<tr>
<th>23. STEREOSCOPIC INSTRUMENT CONTOURS</th>
<th>24. CONTOURS IN GENERAL</th>
<th>25. SPOT ELEVATIONS</th>
<th>26. OTHER PHYSICAL FEATURES</th>
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**CULTURAL FEATURES**

<table>
<thead>
<tr>
<th>27. ROADS</th>
<th>28. BUILDINGS</th>
<th>29. RAILROADS</th>
<th>30. OTHER CULTURAL FEATURES</th>
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**BOUNDARIES**

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<thead>
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**MISCELLANEOUS**

<table>
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<tr>
<th>33. GEOGRAPHIC NAMES</th>
<th>34. JUNCTIONS</th>
<th>35. LEGIBILITY OF THE MANUSCRIPT</th>
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<table>
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<tr>
<th>36. DISCREPANCY OVERLAY</th>
<th>37. DESCRIPTIVE REPORT</th>
<th>38. FIELD INSPECTION PHOTOGRAPHS</th>
<th>39. FORMS</th>
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<th>40. REVIEWER</th>
<th>SUPERVISOR, REVIEW SECTION OR UNIT</th>
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<tr>
<td>RJP</td>
<td>ACR</td>
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**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**
<table>
<thead>
<tr>
<th>STATE</th>
<th>SOUTH CAROLINA - GEORGIA</th>
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<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
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<td></td>
<td>SAVANNAH RIVER</td>
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<tr>
<td></td>
<td>Tybee Range Front Light</td>
</tr>
<tr>
<td></td>
<td>1964 L.L. No. 4554</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tybee Light</td>
</tr>
<tr>
<td></td>
<td>Tybee Lighthouse 1932</td>
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<tr>
<td></td>
<td>L. L. No. 4374</td>
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</tr>
<tr>
<td></td>
<td>Bloody Point Range Front Light</td>
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<tr>
<td></td>
<td>1964 L.L. No. 4555</td>
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<tr>
<td></td>
<td>Bloody Point Range Rear Light</td>
</tr>
<tr>
<td></td>
<td>1964 L.L. No. 4554</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jones Island Range Front Light</td>
</tr>
<tr>
<td></td>
<td>1964 L.L. No. 4559</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jones Island Range Rear Light</td>
</tr>
<tr>
<td></td>
<td>1964 L.L. No. 4660</td>
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<th>POSITION</th>
<th>LATITUDE*</th>
<th>LONGITUDE*</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION verified</th>
<th>CHARTS AFFECTED</th>
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<td>T-12621</td>
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<tr>
<td>Tybee Range Front Light</td>
<td>382.5</td>
<td>12.152</td>
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<td></td>
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<td>x</td>
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<td></td>
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<td>1240</td>
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<td></td>
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<td>19.301</td>
<td>80</td>
<td>111.985 T-12621</td>
<td>6-1-64</td>
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<tr>
<td>(Tybee Lighthouse 1932)</td>
<td>594.5</td>
<td>1180.5</td>
<td></td>
<td></td>
<td>T-12831</td>
<td>x</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>1240</td>
<td></td>
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<tr>
<td>Bloody Point Range Front Light</td>
<td>32 02</td>
<td>30.533</td>
<td>80</td>
<td>40.514 T-12621</td>
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<td>32 03</td>
<td>17.590</td>
<td>80</td>
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<td>80</td>
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<td>1068.7</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, 6-36, 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
### NONFLOATING AIDS OR LANDMARKS FOR CHARTS

**TO BE CHARTED**
**TO BE REVISED**
**TO BE DELETED**

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

B. Wilson

**STATE** GEORGIA - SOUTH CAROLINA

<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAVANNAH RIVER\light</td>
<td>(TYBEE KNOLL CUT RANGE REAR LIGHT 1966)</td>
<td>32 01</td>
<td>56.33</td>
<td>80 54</td>
<td>26.37</td>
<td>NA</td>
<td>TRI T-12620</td>
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<tr>
<td>SAVANNAH RIVER\light</td>
<td>Tybee Knoll Cut Range Front Light</td>
<td>32 01</td>
<td>59.20</td>
<td>80 55</td>
<td>55.06</td>
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<td>Photo T-12620</td>
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<td>SAVANNAH RIVER\light</td>
<td>New Channel Range Front Light</td>
<td>32 02</td>
<td>20.65</td>
<td>80 55</td>
<td>12.19</td>
<td>&quot;</td>
<td>Photo T-12620</td>
</tr>
<tr>
<td>SAVANNAH RIVER\light</td>
<td>New Channel Range Rear Light</td>
<td>32 02</td>
<td>25.27</td>
<td>80 56</td>
<td>18.60</td>
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<td>&quot;</td>
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<tr>
<td>SAVANNAH RIVER\light</td>
<td>Lower Flats Range Front Light</td>
<td>32 04</td>
<td>35.10</td>
<td>80 57</td>
<td>18.61</td>
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<td>&quot;</td>
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<td>Lower Flats Range Rear Light</td>
<td>32 04</td>
<td>33.60</td>
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<td>85.35</td>
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<td>Oglethorpe Range Rear Light</td>
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<td>80 59</td>
<td>50.16</td>
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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

June 17, 1966
12-811

\[
\begin{align*}
4/1 & 332.35 & 4/1 & 452.7 \\
4/1 & 595.0 & 4/1 & 680.5 \\
4/1 & 540.4 & 4/1 & 706.4 \\
4/1 & 354.5 & 4/1 & 517.7 \\
4/1 & 933.4 & 4/1 & 70.1 \\
4/1 & 221.18 & 4/1 & 1088.7 \\
4/1 & 733.0 & 4/1 & 83.0 \\
4/1 & 823.0 & 4/1 & 76.8 \\
4/1 & 636.0 & 4/1 & 170.8 \\
4/1 & 000.0 & 4/1 & 48.0 \\
4/1 & 65.0 & 4/1 & 489.0 \\
4/1 & 41.70 & 4/1 & 21.90 \\
4/1 & 729.0 & 4/1 & 323.0 \\
\end{align*}
\]
U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

ATLANTIC MARINE CENTER
June 17 1966

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

The positions given have been checked after listing by B. Wilson

J. Bull, Director

<table>
<thead>
<tr>
<th>STATE</th>
<th>GEORGIA - SOUTH CAROLINA</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>SAVANNAH RIVER</td>
<td></td>
</tr>
<tr>
<td>GOLD TOWER</td>
<td>Round brick tower, top painted black, bottom white, ht=38.1 ft. (COCKSPUR LIGHTHOUSE 1902)</td>
</tr>
<tr>
<td>TANK</td>
<td>4-legged steel structure painted silver, ht=100(110) ft. (OGLETHORPE HOTEL, WATER TANK 1932)</td>
</tr>
<tr>
<td>OLD TOWER</td>
<td>J-legged steel abandoned range light, ht=79 (79) ft.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
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<tbody>
<tr>
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<td>D.P. METERS</td>
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<td></td>
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<td></td>
<td>32 00</td>
<td>16.057</td>
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<td>191.6</td>
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<td></td>
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<td>56.93</td>
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<td>T-12620 6/3/61</td>
</tr>
</tbody>
</table>

NOTE: This is the same landmark reported with T-12811 with different charting name and unadjusted position.

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
I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (delete from) the charts indicated.

The positions given have been checked after listing by C. Bishop

<table>
<thead>
<tr>
<th>STATE</th>
<th>SOUTH CAROLINA - GEORGIA</th>
<th>POSITION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY No</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
<td>SIGNAL NAME</td>
<td>f D.METERS</td>
<td>s D.METERS</td>
<td>Datum</td>
<td></td>
<td></td>
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<tr>
<td>TYEE</td>
<td>TYBEE LIGHTHOUSE 1932 (Octagonal brick tower, upper part black, middle part white, lower part black, HT. 150 (155) ft)</td>
<td>32 01 12,301 80 50 LL 985 NA 1927 T-12811 li-29-61 x</td>
<td>1 120 0</td>
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</tr>
<tr>
<td>L.H.</td>
<td></td>
<td>32 01 12,301 80 50 LL 985 NA 1927 T-12811 li-29-61 x</td>
<td>1 120 0</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TANK</td>
<td>SAVANNAH BEACH, MUNICIPAL WATER TANK, 1961 (Stev. steel HT. 156 (153) ft)</td>
<td>32 00 12,717 80 50 31.690 &quot; &quot; li-29-64 x</td>
<td>1 120 0</td>
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✓ = Objects mapped on T-12811

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
REVIEW REPORT T-12811
SHORELINE
July 15, 1971

61. GENERAL STATEMENT:
See Summary on page 6 of this Descriptive Report.

An ozalid comparison print, pages 30 through 36, with differences noted in Items 62 through 65, is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with T-6154 b, scale 1:10,000, dated July-August 1934. This was a control survey and only short stretches of shoreline were mapped. Differences between the old survey and T-12811 are shown in blue on the comparison print.

The north tip of Tybee Island apparently has eroded about 400 meters.

T-12811 supersedes T-6154 b for charting purposes and will be superseded by TF-00277, Project PH-7101, when it is completed.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangle FORT PULASKI, S. C. - GA., scale 1:24,000, dated 1955, and with A.M.S. Sheet SAVANNAH BEACH NORTH, GA., S.C., scale 1:25,000, dated 1957. Differences between these maps and T-12811 are shown in brown on the comparison print.

The shoreline in Chimney Creek and Horse Pen Creek does not have the same alignment and there is noticeable difference in shoreline placement at the east end of Oyster Bed Island. There is no noticeable difference in shoreline on the east side of Tybee Island.
A wreck, not visible on the photographs, is shown at latitude 32º00.8', longitude 80º49.6'.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

The most recent survey available for comparison was a copy of the verified smooth sheet for H-5592, scale 1:10,000, dated June-July-December 1934. The larger differences between this survey and T-1281l are shown in purple on the comparison print.

The extent of Oyster Bed Island has increased and the north tip of Tybee Island has eroded since H-5592 was compiled.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 440, scale 1:40,000, 35th edition, dated July 25, 1970. Differences between this chart and T-1281l are shown in red on the comparison print.

A wreck is charted at lat. 32º01.4', long. 80º50.2'. It also is shown on H-5592 and SAVANNAH BEACH. No object is visible at this position on the photographs.

A reported obstruction is charted at lat. 32º00.8', long. 80º49.6'. No image is visible on the photographs at this point.

A pier or groin, not visible on the photographs, is charted at lat. 32º01.3', long. 80º51.7'.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with Project Instructions, Bureau requirements, and the National Standards for Map Accuracy. No accuracy tests were run in the field.

Reviewed by:

Charles H. Bishop
Cartographer
July 15, 1971
Approved for forwarding:

Melvin J. Umbach, CDR, NOAA
Chief, Photogrammetry Division, AMC

Approved:

Allen L. Powell, RADM, NOAA
Director, Atlantic Marine Center

Approved:

Charles Thane
Chief, Photogrammetric Branch

Jack E. Smith
Chief, Photogrammetry Division
COMPARISON PRINT

Brown = FORT PULASKI
Purple = H-5592

○ Four legged base of old steel range light

y = 745,000 FT. GA
02'30"

02'30"

Oyster Bed Island

△ QUARANTINE (USE) 1912

64 W 4334

SAVANNAH RIVER

y = 740,000 FT. GA

TYBEE KNOCK CUT RANGE FRONT LIGHT 1964

○ Pile

Ditches

Cockspur Island
COMPARISON PRINT

Blue = T-6154b
Brown = SAVANNAH BEACH NORTH
Purple = H-5592
NOTE:
"The photogrammetric location and delineation of features offshore from the mean high-water line on this survey may not be complete or final. The contemporary reviewed hydrographic survey of the area where available, should be consulted for the final delineation."

Also shown on chart 440 and H-5592

COMPARISON PRINT

Brown = SAVANNAH BEACH NORTH
Purple = H-5592
Red = Chart 440
### RECORD OF APPLICATION TO CHARTS

**FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.** T-12811

#### INSTRUCTIONS
A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. In “Remarks” column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under “Comparison with Charts” in the Review.

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