**Form 204**
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>SHORELINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>Office No.</td>
</tr>
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</table>

**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>SOUTH CAROLINA</th>
</tr>
</thead>
<tbody>
<tr>
<td>General locality</td>
<td>WINTAH BAY TO CHARLESTON HARBOR</td>
</tr>
<tr>
<td>Locality</td>
<td>WINYAH BAY ENTRANCE</td>
</tr>
</tbody>
</table>

1963-1964

**CHIEF OF PARTY**

J. K. Wilson, Chief of Field Party  
J. Bull, Norfolk Regional Office

**LIBRARY & ARCHIVES**

DATE

USCCHHOC-0C 5067
**DESCRIPTIVE REPORT - DATA RECORD**

**PROJECT NO. (III):**

21058

**FIELD OFFICE (III):**

Georgetown, South Carolina

**CHIEF OF PARTY**

Joseph K. Wilson

**PHOTOMETRIC OFFICE (III):**

Norfolk, Virginia

Tampa, Florida

**OFFICER-IN-CHARGE**

J. Bull

V. Ralph Sobieralski

**INSTRUCTIONS DATED (III) (IV):**

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

**METHOD OF COMPILED (III) (IV):**

Kelsh Plotter

**MANUSCRIPT SCALE (III):**

1:10,000

**STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):**

1:16,000

**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):**

NAVD 1929

**EXCEPT AS FOLLOWS:**

- Elevations shown as (25) refer to mean high water
- Elevations shown as (9) refer to sounding datum

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

**REFERENCE STATION (III):**

**GEORGETOWN LIGHTHOUSE, 1925**

<table>
<thead>
<tr>
<th>LAT.</th>
<th>LONG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>33° 13' 20.8878 (643.2m)</td>
<td>79° 11' 07.0013 (181.6m)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>X</th>
<th>UNADJUSTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>ADJUSTED</td>
</tr>
</tbody>
</table>

| Y = 510,176.57 | X = 2,554,951.68 |

**STATE**

South Carolina

**ZONE**

South
# DESCRIPTIVE REPORT - DATA RECORD

**FIELD INSPECTION BY (III):**
- M. A. Stewart
- H. G. Lucas  
**DATE:** Jan. 1964

**MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):**
- Air Photo. Compilation
- Date of Photography: Sept. 1, 1962

**PROJECTION AND GRIDS RULED BY (IV):**
- A. R. (Washington Office)  
**DATE:** Feb. 1963

**PROJECTION AND GRIDS CHECKED BY (IV):**
- W. M. (Washington Office)  
**DATE:** Feb. 1963

**CONTROL PLOTTED BY (III):**
- V. P. Cackowski  
**DATE:** May 1963

**CONTROL CHECKED BY (III):**
- R. R. Wagner  
**DATE:** May 1963

**RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):**
- Washington Office  
**DATE:** April 1963

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**
- PLANIMETRY: R. E. Smith, Jr.
- Reviewed by: R. J. Pate  
**DATE:** August 1963

- CONTOURS: Inapplicable  
**DATE:** August 1963

**MANUSCRIPT DELINEATED BY (III):**
- R. E. Smith, Jr.
- Reviewed by: R. R. Wagner  
**DATE:** August 1963

**SCRIIBING BY (III):**
- H. J. Cordell  
**DATE:** Nov. 1964

**PHOTOGRAFMETRIC OFFICE REVIEW BY (III):**
- R. R. Wagner  
**DATE:** March 1965

**REMARKS:**
**DESCRIPTIVE REPORT - DATA RECORD**

**CAMERA (KIND OR SOURCE) (III):**

Single Lens Camera "S"

**PHOTOGRAPHS (III):**

<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>62-S-1108-A</td>
<td>1 Sept. 1963</td>
<td>08:34</td>
<td>Diapositives 1,30,000</td>
<td>+ 4.7</td>
</tr>
<tr>
<td>62-S-1109-A</td>
<td></td>
<td>08:34</td>
<td></td>
<td>+ 4.7</td>
</tr>
</tbody>
</table>

**PREDICTED TIDE (III):**

<table>
<thead>
<tr>
<th>REFERENCE STATION:</th>
<th>CHARLESTON</th>
<th>RATIO OF RANGES</th>
<th>MEAN RANGE</th>
<th>SPRING RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUBORDINATE STATION:</td>
<td>Winyah Bay Entrance (south jetty)</td>
<td>HW -0.5</td>
<td>0.0</td>
<td>4.6</td>
</tr>
<tr>
<td>SUBORDINATE STATION:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WASHINGTON OFFICE REVIEW BY (IV):**
M. M. Slavney, Norfolk Regional Office  
**DATE:** 8/65

**PROOF EDIT BY (IV):**
M. M. Slavney, Norfolk Regional Office  
**DATE:** 11/65

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):** 2*  
**RECOVERED:** 1  
**IDENTIFIED:** 1

**NUMBER OF BM(5) SEARCHED FOR (III):** (Tidal) 6  
**RECOVERED:** 2  
**IDENTIFIED:** 1

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):** None

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

**REMARKS:**

*Four range lights and one radio mast were located by intersection in January 1963 by Geodetic Party 601. All five of these stations were identified on the photographs.*
<table>
<thead>
<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manuscript complete pending field edit.</td>
<td>January 1964</td>
<td>Superseded</td>
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<tr>
<td>Compilation complete.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Field Edit applied</td>
<td>November 1964</td>
<td></td>
</tr>
</tbody>
</table>
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12274

Shoreline manuscript T-12274 is one of nine 1:10,000 scale maps in Project 21058 (Winyah Bay to Charleston, South Carolina), which also contains six 1:20,000 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 camera on September 1, 1962. The stereo bridge was run and adjusted to field identified control in the Washington Office. Compilation was done with the Kelsch 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 4.75 minutes in latitude and 3.75 minutes in 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

Submitted with T-12277.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR φ-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>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Georgetown Lighthouse, 1965</td>
<td>23</td>
<td>510,176.5'</td>
<td>15 5502.1'</td>
<td>7 7751.1'</td>
<td>38 9375.1'</td>
</tr>
<tr>
<td>Winyah Bay Range A Rear L, 1963</td>
<td>Bridge Data</td>
<td>499,368.7'</td>
<td>77 8760.8'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Winyah Bay Range A Front L, 1963</td>
<td></td>
<td>499,407.4'</td>
<td>77 8760.8'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Winyah Bay Range B Rear L, 1963</td>
<td></td>
<td>3560,413.7'</td>
<td>77 8760.8'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Winyah Bay Range B Front L, 1963</td>
<td></td>
<td>502,053.0'</td>
<td>77 8760.8'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Winyah Bay Range B Front L, 1963</td>
<td></td>
<td>502,053.0'</td>
<td>77 8760.8'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Georgetown Coast Guard Radio Mast, 1963</td>
<td></td>
<td>510,161.3'</td>
<td>77 8760.8'</td>
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<tr>
<td></td>
<td></td>
<td>2555,063.2'</td>
<td>77 8760.8'</td>
<td></td>
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</table>
The Photogrammetric Plot Report is submitted with T-12283.
Items 31 thru 47 submitted with T-12275.

Approved & Forwarded

J. Bull, Norfolk Regional Officer

Russell J. Pate
48. **GEOGRAPHIC NAME LIST**

Names were taken from U.S. Corps of Engineers Quadrangle, SANTEE POINT, S.C., scale 1:31,680 prepared by the Geographic Name Section, Washington Office.

**ATLANTIC OCEAN**

**MURRELLS INLET AND WAVERLY MILLS NO. 7**

**NORTH ISLAND**

**SAND ISLAND**

**SOUTH CAROLINA**

**WINYAH BAY**

**WINYAH BAY ENTRANCE**
GEOGRAPHIC NAMES
Ph 6216 (Winyah Bay - Charleston Harbor, S.C.)

T. 12274 (Shoreline)

Atlantic Ocean
North Island
North Jetty
Sand Island
South Jetty
Winyah Bay
Winyah Bay Entrance

A. J. Wraight
A. J. Wraight
Geographic Names
49. **NOTES FOR THE HYDROGRAPHER**

On the east end of the south jetty, there appeared to be either a rock mound or a light. This was covered by only one photograph and no field inspection note. Please verify.
## PHOTOGRAMMETRIC OFFICE REVIEW

### 1. PROJECTION AND GRIDS

<table>
<thead>
<tr>
<th>2. TITLE</th>
<th>3. MANUSCRIPT NUMBERS</th>
<th>4. MANUSCRIPT SIZE</th>
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<tr>
<td>RRW</td>
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### CONTROL STATIONS

<table>
<thead>
<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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<tbody>
<tr>
<td>RRW</td>
<td>RRW</td>
<td>XX</td>
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### BENCHMARKS

<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>
</tr>
</thead>
<tbody>
<tr>
<td>RRW</td>
<td>XX</td>
<td>W.O.</td>
<td>Kelsh Instrument</td>
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</table>

### 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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<tbody>
<tr>
<td>RRW</td>
<td>XX</td>
<td>RRW</td>
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### AIDS TO NAVIGATION

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<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>
</tr>
</thead>
<tbody>
<tr>
<td>RRW</td>
<td>RRW</td>
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### PHYSICAL FEATURES

<table>
<thead>
<tr>
<th>20. WATER FEATURES</th>
<th>21. NATURAL GROUND COVER</th>
<th>22. PLANETARY CONTOURS</th>
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<tbody>
<tr>
<td>RRW</td>
<td>RRW</td>
<td>XX</td>
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</table>

### CULTURAL FEATURES

<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>
</tr>
</thead>
<tbody>
<tr>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>RRW</td>
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</tbody>
</table>

### BUILDINGS

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<thead>
<tr>
<th>27. ROADS</th>
<th>28. BUILDINGS</th>
<th>29. RAILROADS</th>
<th>30. OTHER CULTURAL FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>XX</td>
<td>RRW</td>
<td>XX</td>
<td>RRW</td>
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</tbody>
</table>

### BOUNDARIES

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<thead>
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<th>31. BOUNDARY LINES</th>
<th>32. PUBLIC LAND LINES</th>
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</thead>
<tbody>
<tr>
<td>XX</td>
<td>XX</td>
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</tbody>
</table>

### 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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</thead>
<tbody>
<tr>
<td>RRW</td>
<td>RRW AND ACR</td>
<td>RRW</td>
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### DISCREPANCY OVERLAY

<table>
<thead>
<tr>
<th>36. DISCREPANCY OVERLAY</th>
<th>37. DESCRIPTIVE REPORT</th>
<th>38. FIELD INSPECTION PHOTOGRAPHS</th>
<th>39. FORMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>XX</td>
<td>ACR</td>
<td>RRW</td>
<td>RRW</td>
</tr>
</tbody>
</table>

### REVIEWER

**Robert R. Wagner**

### SUPERVISOR

**Albert C. Rauck, Jr.**

### REMARKS

**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 under item 43.

### COMPILER

**Rexford E. Smith, Jr.**

### SUPERVISOR

**Albert C. Rauck, Jr.**

### REMARKS
51. FIELD EDIT REPORT

None submitted.

Albert C. Rauck, Jr.

Albert C. Rauck, Jr.
<table>
<thead>
<tr>
<th>Chart No.</th>
<th>Chart Name</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Datum</th>
<th>Chart Title</th>
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<tbody>
<tr>
<td>10593</td>
<td>Winyah Bay Chart</td>
<td>33°13'00&quot;N</td>
<td>79°45'00&quot;W</td>
<td>O.7.1925</td>
<td>Winyah Bay - Charleston Harbor</td>
</tr>
<tr>
<td>10598</td>
<td>Georgetown Lighthouse, 1925</td>
<td>33°13'00&quot;N</td>
<td>79°45'00&quot;W</td>
<td>O.7.1925</td>
<td>Winyah Bay - Charleston Harbor</td>
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<td>Georgetown Lighthouse, 1925</td>
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<td>10596</td>
<td>Georgetown Lighthouse, 1925</td>
<td>33°13'00&quot;N</td>
<td>79°45'00&quot;W</td>
<td>O.7.1925</td>
<td>Winyah Bay - Charleston Harbor</td>
</tr>
</tbody>
</table>

**NOTES**:
- All positions should be shown on the chart.
- The positions given have been checked after surveying.
- The positions are approximate and will be corrected as necessary.

**STRIKE OUT TWO**:
- Any charted objects which have been moved since the chart was published.
<table>
<thead>
<tr>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of ranges</th>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td>High tide</td>
<td>5.2</td>
<td>5.2 x 0.2 = 4.7</td>
<td>High tide at Ref. Sta.</td>
<td>02 09</td>
<td>02 09</td>
</tr>
<tr>
<td>Low tide</td>
<td>0.2</td>
<td>0.2 x 0.2 = 0.2</td>
<td>Time difference</td>
<td>-0 28</td>
<td>-0 28</td>
</tr>
<tr>
<td>Duration of rise or fall</td>
<td>4 10</td>
<td></td>
<td>Corrected time at Subordinate station</td>
<td>8 11</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time H. T. or L. T.</th>
<th>h.</th>
<th>m.</th>
<th>Tabular correction</th>
<th>Stage of tide above MLW</th>
<th>Feature bares</th>
<th>Stage of tide above MLW</th>
<th>Feature bares</th>
<th>Stage of tide above MLW</th>
<th>Feature bares</th>
<th>Stage of tide above MLW</th>
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<th>Stage of tide above MLW</th>
<th>Feature bares</th>
<th>Stage of tide above MLW</th>
<th>Feature bares</th>
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</thead>
<tbody>
<tr>
<td>Required time interval</td>
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<td></td>
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<td></td>
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<tr>
<td></td>
<td>0 44</td>
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<tr>
<td>Time H. T. or L. T.</td>
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<td>m.</td>
<td>Tabular correction</td>
<td>Stage of tide above MLW</td>
<td>Feature bares</td>
<td>Stage of tide above MLW</td>
<td>Feature bares</td>
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<td>Stage of tide above MLW</td>
<td>Feature bares</td>
<td>Stage of tide above MLW</td>
<td>Feature bares</td>
<td>Stage of tide above MLW</td>
<td>Feature bares</td>
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<tr>
<td>Required time interval</td>
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<tr>
<td>Time H. T. or L. T.</td>
<td>h.</td>
<td>m.</td>
<td>Tabular correction</td>
<td>Stage of tide above MLW</td>
<td>Feature bares</td>
<td>Stage of tide above MLW</td>
<td>Feature bares</td>
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<td>Feature bares</td>
<td>Stage of tide above MLW</td>
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<td>Required time interval</td>
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</tr>
<tr>
<td>Time H. T. or L. T.</td>
<td>h.</td>
<td>m.</td>
<td>Tabular correction</td>
<td>Stage of tide above MLW</td>
<td>Feature bares</td>
<td>Stage of tide above MLW</td>
<td>Feature bares</td>
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<td></td>
</tr>
<tr>
<td>Time H. T. or L. T.</td>
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Computed by R.E. Smith
Checked by RDP
61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6).

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-8230 (Santee Point, S. C.)  1:20,000  1942

An original comparison print of T-12274 is submitted; the differences with T-8230 are noted in blue:

Sand Island has evolved from the sand bar shown in blue to its present state.

The Range Lights have been moved, though the ranges appear to retain their directions.

The east, or ocean, shoreline of North Island has moved 10 to 100 meters eastward along its entire length. The southeast tip of North Island has extended 300 meters southward.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES

SANTEE POINT, S. Carolina  C of E.  1:31,680  1942

T-8230 (Item 62) was mapped by the Coast and Geodetic Survey for the Corps of Engineers, and the SANTEE POINT quadrangle is the 1:31,680 reproduction by Corps of Engineers.

The differences noted with T-8230 are, therefore, common with this quadrangle.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

BOAT SHEET  FE 10-1-64 A&B  1:10,000  No date

The boat sheet shoreline was taken from the Advance Manuscript of T-12274. There were no changes by the field editor, and they are in agreement. No attempt was made to delineate the low water line on T-12274.
65. **COMPARISON WITH NAUTICAL CHARTS**


The Comparison Print shows chart differences in red:

The east, or ocean, shoreline of North Island has moved eastward, and the ponds at the south end of the island are now mostly "marsh".

The Sand Island is narrower at the north end and the shoreline has moved eastward.

66. **ADEQUACY OF RESULTS AND FUTURE SURVEYS**

This survey complies with the instructions and meets the National Standards of Map Accuracy.

No items are noted for future surveys.

Reviewed by

M. M. Slavney

Approved by

J. Bill, Norfolk Regional Officer

Approved by

Charles Theurer, Chief
Cartographic Branch
Photogrammetry

Chief, Chart Division

J. E. Waugh, Chief
Photogrammetry Division

Chief, Operations Division