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

DESCRIPTIVE REPORT

Type of Survey  SHORELINE
Field No.  Office No.  T-12273

LOCALITY
State  SOUTH CAROLINA
General locality  WINYAH BAY TO CHARLESTON HARBOR
Locality  WINYAH BAY

1962-1964

CHIEF OF PARTY
J. K. Wilson, Chief of Party
J. Bull, Norfolk Regional Office

LIBRARY & ARCHIVES

DATE
DESCRIPTIVE REPORT - DATA RECORD
T - 12273

PROJECT NO. (III):
21058

FIELD OFFICE (III):
Georgetown, South Carolina

CHIEF OF PARTY
Joseph K. Wilson

PHOTOGRAMMETRIC OFFICE (III):
Norfolk, Virginia
Tampa, Florida

OFFICER-IN-CHARGE
J. Bull
V. Ralph Sobiersalski

INSTRUCTIONS DATED (III):

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

METHOD OF COMPILATION (III):
Kelsh Plotter

MANUSCRIPT SCALE (III):
1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:6,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.:

DATE:

DATE REGISTERED (IV):

GEOPHYSICAL DATUM (III):

N. A. 1927

REFERENCE STATION (III):

GEORGETOWN LIGHTHOUSE, 1925 (Out-12274)

LAT.:
33° 13' 20.878 (643.2m)
33° 13' 20.878 (643.2m)

LONG.:
79° 11' 07.013 (181.6m)
79° 11' 07.013 (181.6m)

PLAN COORDINATES (IV):

y = 510,176.57
x = 2,554,951.68

STATE:
South Carolina

ZONE:
South

M MAR

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

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (I) 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 (III):
- M. A. Stewart
- R. G. Lucas  
  **DATE:** January 1964

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

### PROJECTION AND GRIDS RULED BY (IV):
- **A. Riley (Washington Office)**  
  **DATE:** February 1963

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

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

### CONTROL CHECKED BY (III):
- **R. D. Purvis**  
  **DATE:** May 1963

### STEREOSCOPIC CONTROL EXTENSION BY (III):
- **Washington Office**  
  **DATE:** April 1963

### STEREOSCOPIC INSTRUMENT COMPILATION (III):
- **R. E. Smith, Jr.**  
  **R. J. Pate**  
  **REVIEWED:** J. Honick  
  **DATE:** September 1963

### CONTOURS:
- **Inapplicable**  
  **DATE:** September 1963

### MANUSCRIPT Delineated by (III):
- **R. J. Pate**  
  **Reviewed by:** R. R. Wagner  
  **DATE:** October 1963

### SCRIBING BY (III):
- **B. Barge**  
  **Reviewed by:** R. E. Smith, Jr.  
  **DATE:** December 1964

### PHOTOGRAMMETRIC OFFICE REVIEW BY (III):
- **R. R. Wagner**  
  **DATE:** May 1965

### REMARKS:
- **Field Edit 1964**
### DESCRIPTIVE REPORT - DATA RECORD

**CAMERA (KIND OR SOURCE) (III):**
Single Lens Camera "S"

**PHOTOGRAPHS (III):**

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<th>NUMBER</th>
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<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tr>
<td>62-S-1100A</td>
<td>Sept.1, 1962</td>
<td>08:32</td>
<td>Diapositives</td>
<td>3.9</td>
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**Predicted TIDE (III):**

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<th>RATIO OF RANGES</th>
<th>MEAN RANGE</th>
<th>SPRING RANGE</th>
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<td>SUBORDINATE STATION: Georgetown Light</td>
<td>H.W.</td>
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<tr>
<td>L.W.</td>
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<td>4.0</td>
<td>4.7</td>
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**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):** 1
**RECOVERED:** 1
**IDENTIFIED:** None

**NUMBER OF BM(S) SEARCHED FOR (III):** None
**RECOVERED:** None
**IDENTIFIED:** None

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

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

**REMARKS:**
* END 1934 is off the north limits of sheet.
* The Cut C Range Lights positions are from form 567 submitted by the field and there are no recovery cards in this office.
<table>
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<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
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<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>November 1964</td>
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PROJECT PH-6216
SHORELINE MAPPING
SOUTH CAROLINA
WINYAH BAY TO CHARLESTON HARBOR
Shoreline manuscript T-12273 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 scale manuscripts. The sketch on page 5 of this report shows the position of this manuscript in the project.

This is a stereoscopic instrument project in advance of hydrographic surveys of the area. 1:30,000 scale panchromatic photographs were taken with the S 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 Kelsh Plotter. 1:10,000 scale ratio prints were processed and provided for photo hydro support.

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

The compilation manuscript was a vinylite sheet 3 minutes and 45 seconds in latitude and longitude. The smooth manuscript was on cronaflex for review. One cronar positive and one cronar negative are furnished for registry and record after final review.
FIELD INSPECTION REPORT

Submitted with T-12277.
<table>
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<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR ( \gamma )-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS (FORWARD) (BACK)</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (FORWARD) (BACK)</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS (FORWARD) (BACK)</th>
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<td>536,300.02</td>
<td>2,525,064.21</td>
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</table>
COMPILATION REPORT

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, prepared by the Geographic Names Section, were submitted on the U. S. Corps of Engineers, Santee Point, S. C. Quadrangle.

CAT ISLAND
CAT ISLAND PLANTATION
LAGOON CREEK
MOSQUITO CREEK
MOSQUITO CREEK CANAL
MOTHER NORTON SHOAL
NORTH ISLAND
ROCKFISH CANAL
Santee No. 1
SOUTH CAROLINA
SOUTH ISLAND
WINYAH BAY
GEOGRAPHIC NAMES
Ph 6216 (Winyah Bay - Charleston Harbor, S.C.)
T-12273 (Shoreline)

Cat Island.
Cat Island Plantation. Not used, outside compilation limits
Lagoon Creek.
Mosquito Creek.
Mosquito Creek Canal.
Mother Norton Shoal. Not used, feature not delineated
North Island.
Rockfish Canal.
Sand Island.
Winyah Bay.

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

None.
# Photogrammetric Office Review

**T-12273**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<tbody>
<tr>
<td>1.</td>
<td>Projection and Grids</td>
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<td>Title</td>
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<td>3.</td>
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<td>4.</td>
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<td>5.</td>
<td>Control Stations</td>
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<td>6.</td>
<td>Recoverable Horizontal Stations of Third-Order or Higher Accuracy</td>
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<td>7.</td>
<td>Recoverable Horizontal Stations of Less Than Third-Order Accuracy (Topographic Stations)</td>
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<tr>
<td>8.</td>
<td>Photogrammetric Plot Report</td>
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<tr>
<td>9.</td>
<td>Photo Hydro Stations</td>
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<td>10.</td>
<td>Detail Points</td>
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<td>11.</td>
<td>Alongshore Areas (Nautical Chart Data)</td>
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<tr>
<td>12.</td>
<td>Shoreline</td>
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<td>13.</td>
<td>Low-Water Line</td>
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<tr>
<td>14.</td>
<td>Rocks, Shoals, etc.</td>
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<td>15.</td>
<td>Bridges</td>
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<td>16.</td>
<td>Aids to Navigation</td>
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<td>17.</td>
<td>Landmarks</td>
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<tr>
<td>18.</td>
<td>Other Alongshore Physical Features</td>
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<tr>
<td>19.</td>
<td>Other Alongshore Cultural Features</td>
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<tr>
<td>20.</td>
<td>Physical Features</td>
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<tr>
<td>21.</td>
<td>Natural Ground Cover</td>
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<tr>
<td>22.</td>
<td>Planetable Contours</td>
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<td>23.</td>
<td>Stereoscopic Instrument Contours</td>
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<td>24.</td>
<td>Contours in General</td>
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<td>25.</td>
<td>Spot Elevations</td>
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<td>26.</td>
<td>Other Physical Features</td>
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<td>27.</td>
<td>Cultural Features</td>
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<td>28.</td>
<td>Roads</td>
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<td>29.</td>
<td>Buildings</td>
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<td>30.</td>
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<td>Other Cultural Features</td>
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<td>32.</td>
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<td>Juncions</td>
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<td>38.</td>
<td>Legibility of the Manuscript</td>
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<td>39.</td>
<td>Discrepancy Overlay</td>
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<td>40.</td>
<td>Descriptive Report</td>
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<td>41.</td>
<td>Field Inspection Photographs</td>
</tr>
<tr>
<td>42.</td>
<td>Forms</td>
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<tr>
<td>43.</td>
<td>Reviewer</td>
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<td>44.</td>
<td>Remarks</td>
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**Reviewer:**
- A. C. Rauk, Jr.
- Albert C. Rauk, Jr.

**Compiler:**
- R. E. Smith, Jr.

**Supervisor:**
- Albert C. Rauk, Jr.

**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.
51. FIELD EDIT REPORT

None submitted.

Albert C. Rauck, Jr.
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>
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<tr>
<th>STATE</th>
<th>SOUTH CAROLINA</th>
<th>POSITION</th>
<th>LATITUDES</th>
<th>LONGITUDES</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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<td>SIGNAL NAME</td>
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<td>WINYAH BAY</td>
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<tr>
<td>LIGHT</td>
<td>WINYAH BAY RANGE C &amp; B FRONT</td>
<td>33 14</td>
<td>28.065</td>
<td>861.6</td>
<td>79 11</td>
<td>50.850</td>
<td>N.A.</td>
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<tr>
<td>LIGHT</td>
<td>LT 1963</td>
<td>33 14</td>
<td>28.065</td>
<td>861.6</td>
<td>79 11</td>
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<tr>
<td>LIGHT</td>
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<td>402</td>
<td>79 11</td>
<td>777</td>
<td>N.A.</td>
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</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.
<table>
<thead>
<tr>
<th>Feature above MLLW</th>
<th>State of the tide above MLLW</th>
<th>Table of correction to L.L.</th>
<th>Required time of L.L.</th>
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<tbody>
<tr>
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<td>State of the tide above MLLW</td>
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<td>Required time of L.L.</td>
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<tr>
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<td>State of the tide above MLLW</td>
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<tr>
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<td>State of the tide above MLLW</td>
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<td>Required time of L.L.</td>
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<td>State of the tide above MLLW</td>
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<td>State of the tide above MLLW</td>
<td>Table of correction to L.L.</td>
<td>Required time of L.L.</td>
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<tr>
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<td>State of the tide above MLLW</td>
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<table>
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<th>Reference Station</th>
<th>Date of Low Water</th>
<th>Time Difference</th>
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TIDE COMPUTATION

Date and time of exposure 1/12/2057 12:22Z

Project No. PH-21057-1222Z

Mean Range

4.7

SKM4-012
61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6).

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

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

An ozalid comparison print of T-12273 is submitted; the differences with T-8230 are noted in blue:

Sand Island has appeared since 1942, and about 300 meters of additional marsh has emerged in the southeast portion of the map.

Both large ponds between Mosquito Creek Canal and Winyah Bay are new since 1942.

The shoreline of South Island has extended eastward in some areas as much as 75 meters. On the east side of Winyah Bay, where the shoreline has been relatively stable, small areas of recession are noted.

The position of the submerged cable across Winyah Bay is about 100 meters south of the 1942 position.

A pier, about 200 meters long, off South Island at latitude 33° 13.75' does not appear in this survey.

There is a new cut-off from Mosquito Creek to Winyah Bay at latitude 33° 14.45'. Note the boathouse over the cut-off about 130 meters west of the entrance to Winyah Bay.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES

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

The Coast and Geodetic Survey’s T-8230 was mapped for the Corps of Engineers, and the SANTEE POINT quadrangle is a 1:31,680 reproduction, published by the Corps of Engineers. The differences noted with T-8230 in Item 62 are, therefore, also common with this quadrangle.
64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

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

The boat sheet shoreline was taken from the Advance Manuscript of T-12273. There were no changes by the field editor and they are still in agreement.

The boat sheet shows two "dolphins" and a "pile" that were not noted during field inspection, or field edit, and could not be seen on the photographs.

One dolphin is noted at latitude 33° 11.6', longitude 79° 11.3'.

Another dolphin note is at latitude 33° 12.13', longitude 79° 11.5'.

A pile is positioned at latitude 33° 12.65', longitude 79° 11.94'. Another pile positioned at lat 33° 12.55', long 79° 11.99'.

65. COMPARISON WITH NAUTICAL CHARTS

Chart 787  1:10,000  3rd edition of October 26, 1964, corrected thru Notice to Mariners #50 of December 12, 1964.

The ozalid comparison print shows chart differences in red:

The rock shown on the chart at latitude 33° 12.2', longitude 79° 11.65' was not noted during field inspection, and could not be seen during compilation. The hydrographer did make a thorough search, see his report for H-8794, and reported no rock at this position, but did find a submerged log or snag at latitude 33° 12.4', longitude 79° 11.63'.

Some shoreline discrepancies exist, the largest are at Sand Island, in the southeast part of the map; and on South Island, at the south end and also at latitude 33° 13.7'.

The pier in ruins shown at latitude 33° 13.75', longitude 79° 12.1' is not on this map. It was not noted by the field inspector, or the field editor. No sign of it appears on the photographs.
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. Bull, Norfolk Regional Officer

Approved by

Charles Theurer
Chief, Cartographic Branch

for J. E. Waugh
Chief, Photogrammetry Division

Chief, Chart Division

Chief, Operations Division
NOTES TO VERIFIER
T-12273 Project 21056 (Ph-6216)
BOAT SHEET No. PE 10-1-64A

None.