### Form 504

**U. S. DEPARTMENT OF COMMERCE**

**COAST AND GEODETIC SURVEY**

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Field No.</th>
<th>Office No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T-12621</td>
</tr>
</tbody>
</table>

**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>SOUTH CAROLINA - GEORGIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>General locality</td>
<td>CHARLESTON, S. C. TO SAVANNAH, GA.</td>
</tr>
<tr>
<td>Locality</td>
<td>TYBEE ISLAND</td>
</tr>
</tbody>
</table>

**1964-65**

**CHIEF OF PARTY**

Joseph K. Wilson, Chief, Photo Party 6420

Allen L. Powell, Director, A. M. C.

**LIBRARY & ARCHIVES**

**DATE**
PROJECT NO. (III):
21420   Job PH-6407

FIELD OFFICE (II):
Beaufort, South Carolina

CHIEF OF PARTY
J. K. Wilson

PHOTOGRAMMETRIC OFFICE (III):
Atlantic Marine Center

OFFICER-IN-CHARGE
Allen L. Powell, Director
Atlantic Marine Center

INSTRUCTIONS DATED (III) (IV):

September 28, 1964 Office
December 22, 1964 Office Amendment No. 1
April 23, 1964 Field
February 17, 1971 Office (Final Review)

METHOD OF COMPIlATION (III):
Kalsh - Plotter

MANUSCRIPT SCALE (III):
1:20,000

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):

GEOGRAPHIC DATUM (III):
N. A. 1927

VERTICAL DATUM (III):
MHW

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

REFERENCE STATION (III):
BRAD 1931

LAT.:
32° 06' 49.664" (1530.3)  X  ADJUSTED

LONG.:
80° 49' 30.231" (792.5)  UNADJUSTED

PLANE COORDINATES (IV):

= 102,085.27 ft.  X = 2,054,169.77 ft.

STATE:
South Carolina

ZONE:
South

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (III) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE.
WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.
<table>
<thead>
<tr>
<th><strong>FIELD INSPECTION BY (III):</strong></th>
<th><strong>DATE:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>J. D. Shea</td>
<td>May-June 1964</td>
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</tbody>
</table>

<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</td>
</tr>
<tr>
<td>Date of Photography: March 13, 1964</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>PROJECTION AND GRIDS RULED BY (IV):</strong></th>
<th><strong>DATE:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>A. E. Roundtree</td>
<td>Jan. 15, 1965</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>PROJECTION AND GRIDS CHECKED BY (IV):</strong></th>
<th><strong>DATE:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>P. Hopkins</td>
<td>Jan. 15, 1965</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CONTROL PLOTTED BY (III):</strong></th>
<th><strong>DATE:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Santillan</td>
<td>January 1965</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CONTROL CHECKED BY (III):</strong></th>
<th><strong>DATE:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>H. Cordell</td>
<td>January 1965</td>
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</table>

<table>
<thead>
<tr>
<th><strong>RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):</strong></th>
<th><strong>DATE:</strong></th>
</tr>
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</table>

<table>
<thead>
<tr>
<th><strong>STEREOSCOPIC INSTRUMENT COMPILATION (III):</strong></th>
<th><strong>PLANIMETRY:</strong></th>
<th><strong>DATE:</strong></th>
<th><strong>CONTOURS:</strong></th>
<th><strong>DATE:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>K. Boyle</td>
<td>K. Boyle</td>
<td>December 1965</td>
<td>Inapplicable</td>
<td>January 1966</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th><strong>MANUSCRIPT DELINEATED BY (III):</strong></th>
<th><strong>DATE:</strong></th>
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<tbody>
<tr>
<td>K. Boyle</td>
<td>December 1965</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>SCRIBING BY (III):</strong></th>
<th><strong>DATE:</strong></th>
</tr>
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</table>

<table>
<thead>
<tr>
<th><strong>PHOTOGRAHMETRIC OFFICE REVIEW BY (III):</strong></th>
<th><strong>DATE:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>C. Bishop</td>
<td>January 1966</td>
</tr>
</tbody>
</table>
**DESCRIPTIVE REPORT - DATA RECORD**

**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>64-W-1321</td>
<td>March 13, 1964</td>
<td>1007</td>
<td>1:30,000</td>
<td>4.0</td>
</tr>
<tr>
<td>64-W-1322</td>
<td>&quot;</td>
<td>1008</td>
<td>&quot;</td>
<td>4.0</td>
</tr>
<tr>
<td>64-W-1323</td>
<td>&quot;</td>
<td>1008</td>
<td>&quot;</td>
<td>4.0</td>
</tr>
<tr>
<td>64-W-1335</td>
<td>&quot;</td>
<td>1022</td>
<td>&quot;</td>
<td>3.6</td>
</tr>
<tr>
<td>64-W-1336</td>
<td>&quot;</td>
<td>1022</td>
<td>&quot;</td>
<td>3.6</td>
</tr>
<tr>
<td>64-W-1337</td>
<td>&quot;</td>
<td>1023</td>
<td>&quot;</td>
<td>3.6</td>
</tr>
</tbody>
</table>

**TIDE (III)**

- **REFERENCE STATION:** SAVANNAH RIVER ENTRANCE, GA.
- **RATIO OF RANGES:** 6.9
- **MEAN RANGE:** 8.1

**COORDINATE STATION:**

**SUBORDINATE STATION:**

**Atlantic Marine Center**

**REVIEW BY (IV):** O. H. Bishop

**DATE:** July 1971

**PROOF EDIT BY (IV):**

**DATE:**

- **NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):** 15
  - **RECOVERED:** 9
  - **IDENTIFIED:** 3
- **NUMBER OF BM(S) SEARCHED FOR (III):** 6
  - **RECOVERED:** 5
  - **IDENTIFIED:** 1

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

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

**REMARKS:**

- 2 new triangulation stations established, namely; TYBEE RANGE FRONT LIGHT, 1964 and JONES ISLAND FRONT RANGE LIGHT.

TYBEE RANGE FRONT LIGHT, 1964, was not identified on the photographs as we did not have coverage.
<table>
<thead>
<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compilation complete pending field edit</td>
<td>Jan. 1966</td>
<td></td>
</tr>
<tr>
<td>Final Review</td>
<td>July 1971</td>
<td></td>
</tr>
</tbody>
</table>


PROJECT 21420 (FH-6407)
SHORELINE MAPPING
Georgia & So. Carolina
CHARLESTON to SAVANNAH

SCALES = 1:10,000 & 1:20,000

(Cjns Jacksonville)
SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12621

This shoreline manuscript, scale 1:20,000, is one of 16 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-12621 in the project.

Compilation was by stereo-instrument. All of the photographs for T-12621 are 1:30,000 scale panchromatic, taken 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 in May 1966. Ratio prints of the compilation photography at 1:20,000 scale were processed for photo-hydro support, but hydrography was not accomplished as of July 1971.

Field work before compilation consisted of identification of control and inspection of shoreline and interior features. 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 7 1/2 minutes in latitude by 7 1/2 minutes 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-12613</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>thru 4291</td>
<td>thru</td>
<td>thru</td>
<td>thru</td>
</tr>
<tr>
<td>64-S-1206</td>
<td></td>
<td>4307 thru 4311</td>
<td>4283</td>
<td>4273</td>
<td>4320</td>
</tr>
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</table>

<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</td>
<td>4288</td>
<td>4329 thru</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4334</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4335 thru</td>
</tr>
<tr>
<td></td>
<td></td>
<td>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-12612**
ASH 1919
BEK (BEACON NO 1), 1934
BUTCHERS ISLAND 1857
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
HARBOR 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
ARCHES CREEK BEACON 1933
BASE 1 (USB) 1931
BEAUFORT RIVER LIGHT 17, 1955
BEAUFORT RIVER LIGHT 13A, 1955
BUC 1933
BROOKLYN 1859
CHOW 1933
FORT FREMONT OBSERVATION TOWER 1932
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
SPIT 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
BULL POINT FRONT RANGE 1931
BUCK 2, 1931
FRON 1931
MAG 1931
MARSH 2, 1931
MARTIN 1933
NO 9 (USE) 1931
OCHO 1921
SIETS 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
ELRA ISLAND FLATS, LIGHT NO 11, 1932
FIELDS CUT NO 1 (USE) 1932
LOWER FLATS REAR RANGE LIGHT 1932
LAZACOTTO 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 FLATS FRONT RANGE TARGET 1932
UPPER FLATS REAR RANGE LIGHT 1932
WALLS CUT BEACON NO 6, 1932
WALLS CUT BEACON NO 8, 1932
WILMINGTON 1857
WILMINGTON ISLAND BLACK VENTILATOR, OGIE THORPE, HOTEL 1933
WRIGHT 1932

T-12621

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

4. VERTICAL CONTROL

A search was made for all tidal bench marks within the limits of these maps. Form 685A 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. Wright, 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

Submitted by:

Joseph K. Wilson
Chief, Photo Party 64.20
Aerotriangulation Report
Project No. 21420
Charleston, South Carolina to Savannah, Georgia

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>
</thead>
<tbody>
<tr>
<td>1</td>
<td>64S 1206 - 1227</td>
</tr>
<tr>
<td>9</td>
<td>64W 4269 - 4273</td>
</tr>
<tr>
<td>4</td>
<td>64W 4276 - 4284</td>
</tr>
<tr>
<td>5</td>
<td>64W 4308 - 4312</td>
</tr>
<tr>
<td>6</td>
<td>64W 4296 - 4302</td>
</tr>
<tr>
<td>7</td>
<td>64W 4290 - 4294</td>
</tr>
<tr>
<td>8</td>
<td>64W 4314 - 4327</td>
</tr>
<tr>
<td>9</td>
<td>64W 4332 - 4337</td>
</tr>
<tr>
<td>10</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 #3 was ended at control station Queen because Strickler (1930) would not hold. This was probably due to STRICKLER in queen.
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:

[Signature]

Lawrence Fritz
John T. Garlach

Approved by:

[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.CAROLINA
CHARLESTON TO SAVANNAH
9-2-64

LEGEND
1. CONTROL used in adjustment
2. CONTROL used as check

1. OTTER, 1963
2. SOUTH 2, 1933
3. POINT, 1902 & 33.7, 1963
4. EDING, 1963
5. NICKE, 1963
6. ROYAL, 1963
7. BUSH, 1963
8. HERNAN, 1933
9. SECESSION, 1933
10. FINGER, 1963
11. BLOCK, 1900 & 1913
AEROTRIANGULATION SKETCH
PROJECT 21420
SHORELINE MAPPING
GEORGIA & S. CAROLINA
CHARLESTON TO SAVANNAH
9-5-64

LEGEND:
0 PHOTOS USED IN BRIDGE
0 PHOTOS NOT USED IN BRIDGE
A CONTROL USED IN BRIDGE
A CONTROL USED AS CHECK
NOTE: CLOSURE OF BRIDGE
TO CONTROL SHOWN
IN PARENTHESES

STRIP #5
12 BEAUFORD USN HOSP.
TANK, 1955 (-19.922, 3.5, 4)
(-S.B. -3.0) (-1.1, 7.0)
10 Post Omal (-1.1, 7.0) (-7.4, 2.3)
9 Gut, 1965 (-10.7, 20.0) (-10.8, 20.0)

STRIP #4
6 Inlet 3, 1955 (-10.3, 10.8) (-10.3, 10.8)
5 Wee 2, 1963 (-10.3, 10.9) (-10.3, 10.9)
7 Storey 3, 1932 (+9.6, 9.9) (+9.6, 9.9)
8 Turtle, 1963 (+10.9, 15.5) (+10.9, 15.5)
9 Gut, 1965

STRIP #3
3 Swing, 1963 (-10.5, -1.0) (-10.5, -1.0)
4 Hunting Isl. L.H. 1933 (-10.5, -1.0) (-10.5, -1.0)
5 Wee 3, 1963 (-10.5, 10.8) (-10.5, 10.8)
6 Inlet 3, 1955 (-10.3, 10.8) (-10.3, 10.8)

13 LEMON 2, 1923
(-19.1, -1.0) (-19.1, -1.0)
14 Side, 1923
(-19.7, -1.0) (-19.7, -1.0)
15 Shoo, 1933 (-19.7, 1.5)
(+0.1, 0.1) (+0.1, 0.1)
16 Drag, 1943
(-19.7, -1.0) (-19.7, -1.0)

19 Hulme No. 6 (U.S.) (-19.7, 1.5)
20 Drag 1943
(+0.1, 0.1) (+0.1, 0.1)
21 Brown 1942 (-19.7, -1.0) (-19.7, -1.0)
22 Blood 1942 (-19.7, -1.0) (-19.7, -1.0)
23 Venne 1942 (-19.7, -1.0) (-19.7, -1.0)
25 Queen 1933 (-20.7, 21.5) (-20.7, 21.5)
26 King 1933 (-20.7, 21.5) (-20.7, 21.5)
27 Queen 1933 (-20.7, 21.5) (-20.7, 21.5)
28 Venne 1942 (-19.7, -1.0) (-19.7, -1.0)
29 Wee 2, 1963 (-10.3, 10.8) (-10.3, 10.8)
30 Storey 3, 1932 (+9.6, 9.9) (+9.6, 9.9)
31 Gulf 1932 (-19.7, 1.5) (+0.1, 0.1)
32 Gulf 1932
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<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>x-COORDINATE</th>
<th>y-COORDINATE</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>SCALE OF MAP: 1:20,000</th>
<th>SCALE FACTOR</th>
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<td>P.C. S-19</td>
<td>N.A. 1927</td>
<td>68,686.68</td>
<td>2,047,788.72</td>
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<td>WEST BASE (USB) 1932</td>
<td>GP p.40</td>
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<td>67,594.27</td>
<td>2,042,189.36</td>
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<td>□</td>
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<td>BLOOD AZIMUTH MARK, 1964</td>
<td>PHOTO-STATS</td>
<td></td>
<td>latitude (66.006)</td>
<td>longitude (66.006)</td>
<td>739.04 (1,109.02)</td>
<td>□</td>
<td>1:20,000</td>
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<tr>
<td>BLOODY POINT RANGE FRONT LIGHT, 1964</td>
<td></td>
<td></td>
<td>latitude (32.051)</td>
<td>longitude (30.876)</td>
<td>940.85 (907.21)</td>
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<td>BLOODY POINT RANGE REAR LIGHT, 1964</td>
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<td></td>
<td>latitude (32.031)</td>
<td>longitude (30.673)</td>
<td>942.04 (1,306.05)</td>
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<tr>
<td>BRAD, 1931</td>
<td>GP-II-p.11h</td>
<td></td>
<td>102,085.27</td>
<td>2,051,169.77</td>
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<td>BRADDOCK, 1964</td>
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<td>942.04 (1,306.05)</td>
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<td>DO, 1916</td>
<td>GP-II-p.11s</td>
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<td>101,126.21</td>
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<td>PHOTO-STATS</td>
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<td>latitude (32.00)</td>
<td>longitude (30.720)</td>
<td>1223.4 (624.6)</td>
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<td>61,966.75</td>
<td>2,060,526.49</td>
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<tr>
<td>JONES ISLAND RANGE REAR LIGHT, 1964</td>
<td>PHOTO-STATS</td>
<td></td>
<td>32° 02' 39.673&quot;</td>
<td>80° 51' 40.688&quot;</td>
<td>1222.0 (626.1)</td>
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<td>SOURCE OF INFORMATION (INDEX)</td>
<td>DATUM</td>
<td>LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE</td>
<td>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</td>
<td>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</td>
<td>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</td>
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<tr>
<td>BLOOD, 1964</td>
<td>PHOTO-STAT#13</td>
<td>N.A. 1927</td>
<td>32° 01' 52.979&quot;</td>
<td>80° 52 18.130&quot;</td>
<td>✅</td>
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</tbody>
</table>

1 FT = 0.3048006 METER

COMPUTED BY: BLB  DATE: 2/1/65
CHECKED BY: B.H. Barnes  DATE: 2/2/65
31. **DELINEATION**

Planimetry was compiled by the Kelsh plotter. On Daufuskie Island, swamp limits as indicated by the field inspector were transferred from the field inspection photographs to ratio photographs and from them to the manuscript by graphic methods.

Photographs and field inspection were adequate for compilation of the manuscript.

32. **CONTROL**


33. **SUPPLEMENTAL DATA**

None

34. **CONTOURS AND DRAINAGE**

Contours not applicable.

Numerous ditches were delineated, especially on Tybee Island.

35. **SHORELINE AND ALONGSHORE DETAILS**

The mean high water line and adjacent details were delineated from field inspection of the photographs. Field inspection of these features was adequate.

The low water line was delineated from office inspection of the photographs and is approximate.

36. **OFFSHORE DETAILS**

One breaker south of Braddock Point was located graphically, using the ratio prints. Piling, dolphins, a foul area and the east end of the jetty on the south side of the entrance to the Savannah River were located in the field by sextant fixes. No difficulty was encountered in plotting these fixes on the manuscript.

37. **LANDMARKS AND AIDS**

Form 567 for six fixed aids and two landmarks was prepared and submitted to the Washington Office.
38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Satisfactory junctions were made with 1:10,000 scale manuscript T-12811 and 1:20,000 scale manuscript T-12620 on the west and 1:20,000 scale manuscript T-12618 on the north. There are no contemporary surveys to the east or south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

41 - 45. No remarks.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with A.M.S. Quadrangle, SAVANNAH BEACH NORTH, scale 1:25,000, Series 4645, Sheet 4848 III SE, Edition 1-AMS, first printing 11-57.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with 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:

Charles H. Bishop
Cartographer

Approved:

Allen L. Powell, RADM, NOAA
Director, Atlantic Marine Center
Atlantic Ocean
Barrett Shoals
Baynard Cove
Baynard Cove Creek
Beach Hole Creek
Bloody Point
Bloody Point Range
Braddock Point
Calibogue Sound
Carter Creek
Chimney Creek
Crab Creek
Daufuskie Island
Estill Hammock
Fort Screven

**Grenadier Shoal
Hilton Head Island
Horse Pen Creek
Horse Pen Hammock
Jones Island Range
New River
Savannah Beach (town)
Savannah River
Sazarine Creek
South Sea Pines
Spring Island
Tybee Island
Tybee Knoll Spit
Tybee Knoll Out Range
Tybee Roads

Approved by:
A. Joseph Wraith
Chief Geographer

Prepared by:
Frank W. Blount
Cartographic Technician

* Feature not delineated.
1. Obstruction, Lat. 32° 06'.12", Long. 80° 51'.06", not field inspected. Please verify.

2. Submerged breakwater on chart h40, Lat. 32° 02'.07" to Lat. 32° 02'.45"; Long. 80° 48'.50" to Long. 80° 49'.15", not visible on photographs or noted by field inspection, please verify.

3. Grenadier and Barrett shoals on chart h40 not visible on photographs, therefore are not compiled. Same for shallow area extending southeastward from Bloody Point.
PHOTOGRAMMETRIC OFFICE REVIEW

C&GS form 1002
U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

1. PROJECTION AND GRIDS
   CHB

2. TITLE
   CHB

3. MANUSCRIPT NUMBERS
   CHB

4. MANUSCRIPT SIZE
   CHB

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF
   THIRD-ORDER OR HIGHER ACCURACY
   CHB

6. RECOVERABLE HORIZONTAL STATIONS
   OF LESS THAN THIRD-ORDER ACCURACY
   (Topographic stations)
   XX

7. PHOTO HYDRO STATIONS
   XX

8. BENCH MARKS
   XX

9. PLOTTING OF SEXTANT
   FIXES
   CHB

10. PHOTOGRAMMETRIC
    PLOT REPORT
    Bridge (W.O.)

11. DETAIL POINTS
    Kelsh

ALONGSHORE AREAS (Nautical Chart Data)

12. SHORELINE
    CHB

13. LOW-WATER LINE
    CHB

14. ROCKS, SHOALS, ETC.
    XX

15. BRIDGES
    XX

16. AIDS TO NAVIGATION
    CHB

17. LANDMARKS
    CHB

18. OTHER ALONGSHORE
    PHYSICAL FEATURES
    CHB

19. OTHER ALONGSHORE
    CULTURAL FEATURES
    CHB

PHYSICAL FEATURES

20. WATER FEATURES
    CHB

21. NATURAL GROUND COVER
    CHB

22. PLANETABLE CONTOURS
    XX

23. STEREOSCOPIC
    INSTRUMENT CONTOURS
    XX

24. CONTOURS IN GENERAL
    XX

25. SPOT ELEVATIONS
    XX

26. OTHER PHYSICAL
    FEATURES
    CHB

CULTURAL FEATURES

27. ROADS
    CHB

28. BUILDINGS
    CHB

29. RAILROADS
    XX

30. OTHER CULTURAL
    FEATURES
    CHB

BOUNDARIES

31. BOUNDARY LINES
    XX

32. PUBLIC LAND LINES
    XX

MISCELLANEOUS

33. GEOGRAPHIC NAMES
    CHB

34. JUNCTIONS
    CHB

35. LEGIBILITY OF THE
    MANUSCRIPT
    CHB

36. DISCREPANCY OVERLAY
    XX

37. DESCRIPTIVE REPORT
    CHB

38. FIELD INSPECTION
    PHOTOGRAPHS
    CHB

39. FORMS
    CHB

40. REVIEWER
    Charlie H. Bishop

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

Swamp and marsh on Daufuskie Island changed to agree with field inspection.
# Nonfloating Aids or Landmarks for Charts

**ATLANTIC MARINE CENTER**  
Dec. 30 1965

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 C. Bishop.

<table>
<thead>
<tr>
<th>STATE</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 Verified</th>
<th>Chart Affected</th>
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<tbody>
<tr>
<td>SOUTH CAROLINA - GEORGIA</td>
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<td></td>
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<tr>
<td>SAVANNAH RIVER</td>
<td>TYPE RANGE FRONT LIGHT 1961 L.L. No. 1557</td>
<td>32 00</td>
<td>12.118</td>
<td>50 48</td>
<td>17.256</td>
<td>NA 1927 T-12621</td>
<td>6-5-61</td>
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<tr>
<td>SAVANNAH RIVER</td>
<td>TYPE LIGHT (TYPE LIGHTHOUSE 1922) L. L. No. 4324, 4500</td>
<td>32 01</td>
<td>13.301</td>
<td>50 50</td>
<td>14.985</td>
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<td>6-4-61</td>
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<tr>
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<td>50 50</td>
<td>23.135</td>
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<td>50 51</td>
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<td>50 51</td>
<td>10.736</td>
<td>T-12621</td>
<td>6-5-61</td>
<td>x</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 determined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS
I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

The positions given have been checked after listing by

C. Bishop

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<thead>
<tr>
<th>STATE</th>
<th>SOUTH CAROLINA - GEORGIA</th>
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</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>Tybee</td>
<td>Tybee Lighthouse 1932</td>
</tr>
<tr>
<td>L.H.</td>
<td>Octagonal brick tower, upper</td>
</tr>
<tr>
<td></td>
<td>part black, middle part white, lower part black, HT 150 (155) ft.)</td>
</tr>
<tr>
<td>Tank</td>
<td>Savannah Beach, Municipal Water Tank, 1964 (Elev. steel HT 158 (153) ft.)</td>
</tr>
</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.
REVIEW REPORT T-12621

SHORELINE

July 29, 1971

61. GENERAL STATEMENT:

Summary on page 5 of this Descriptive Report.

An ozalid comparison print, pages 29 through 31, 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 Survey T-6154 b, scale 1:10,000, dated 1934 and with Survey T-5134, scale 1:20,000, dated 1933. T-5134 covers Hilton Head Island and Daufuskie Island; T-6154 b, a planetable control sheet, covers only a short section of shoreline that no longer exists at the north end of Tybee Island. Differences between these maps and T-12621 are shown in blue on the comparison print.

At the time of compilation of T-12621, the Daufuskie Island shoreline was approximately 60 meters inshore from that indicated on T-5134, and Braddock Point on Hilton Head Island had extended to the southwest about 300 meters from the T-5134 shoreline.

T-12621 supersedes T-6154 b and T-5134 for charting purposes and will be superseded by parts of TP-00077, TP-00078, and TP-00079, Project PH-70101, when they are completed.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with A.M.S. SHEET 4848 III SE, Series V 845 (SAVANNAH BEACH NORTH, GA., S.C.) scale 1:25,000, published in 1957. Differences between this map and T-12621 are shown in brown on the comparison print.

Stream beds on Tybee Island seem to have shifted, small differences in shoreline were noted on the north side of Tybee Island, Daufuskie Island shoreline on T-12621 is approximately 60 meters inshore from the A.M.S. shoreline, and T-12621 shoreline at Braddock Point is approximately 100 meters west of the A.M.S. shoreline.
64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with verified copies of smooth sheets for H-5571, scale 1:10,000, dated 1934 (Daufuskie and Hilton Head Islands), and with H-5592, scale 1:10,000, dated 1934 (Tybee Island). Differences between these surveys and T-12621 are shown in purple on the comparison print.

The same differences exist between T-5571 and T-12621 as exist between T-5134 and T-12621, except as noted on the comparison print.

There is a large difference between H-5592 and T-12621 at the north end of Tybee Island; the island has eroded about 400 meters at this point.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 440, scale 1:40,000, 35th edition, dated July 25, 1970. Differences between this chart and T-12621 are shown in red on the comparison print.

A wreck charted at lat. 34° 01.4', long. 80° 50.2' is also indicated on H-5592 and the A.M.S. Sheet. It is not visible on the photographs.

Groins indicated at Braddock Point are not visible on the photographs.

The shape of the charted shoreline of Beach Hole Creek, lat. 30° 07', long. 80° 49.5', is not the same as that visible on the photographs.

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 29, 1971
Approved for forwarding:

Melvin J. Umbach, CDR., NOAA
Chief, Photogrammetry Division, A.M.C.

Approved:

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

Approved:

Charles Thoren, Chief, Photogrammetric Branch
Jack E. Ebbett, Chief, Photogrammetry Division
Red line coincides with blue line, with this exception.

H-5571 coincides with T-5134 (blue).

**COMPARISON PRINT**

Blue = T-5134  
Brown = A. M. S.  
Red = Chart 440
Purple coincides with blue, except where otherwise indicated.

COMPARISON PRINT

Blue = T-5134
Brown = A. M. S.
Purple = H-5571
Red = Chart 440
# RECORD OF APPLICATION TO CHARTS

**FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.**

**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.

<table>
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<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<td>10-11-70</td>
<td>DL P Hill</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No. From No Corr, Suppressed by TP 00778-9</td>
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<tr>
<td>1241</td>
<td>1-5-72</td>
<td>C. Harrington</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No. ADDED MAR 4 1/2 DEG NO CORR SMALL SCALE Will be suppressed by TP 00778, 78, 79</td>
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<tr>
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<td>Full Part Before After Verification Review Inspection Signed Via Drawing No. 37</td>
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