

12618

12618

|                                       |                                    |
|---------------------------------------|------------------------------------|
| Form 504                              |                                    |
| U. S. DEPARTMENT OF COMMERCE          |                                    |
| COAST AND GEODETIC SURVEY             |                                    |
| DESCRIPTIVE REPORT                    |                                    |
| Type of Survey                        | SHORELINE (Photogrammetric)        |
| Field No.                             | Office No. T-12618                 |
| LOCALITY                              |                                    |
| State                                 | SOUTH CAROLINA                     |
| General locality                      | CHARLESTON, S. C. TO SAVANNAH, GA. |
| Locality                              | CALIBOGUE SOUND                    |
| 1964-65                               |                                    |
| CHIEF OF PARTY                        |                                    |
| J. K. Wilson, Chief, Photo Party 6420 |                                    |
| Allen L. Powell, Director, A. M. C.   |                                    |
| LIBRARY & ARCHIVES                    |                                    |
| DATE                                  |                                    |

FORM C&GS-181a  
(3-66)U.S. DEPARTMENT OF COMMERCE  
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT - DATA RECORD

T 12618

PROJECT NO. (II):

Job PH-6407

FIELD OFFICE (II):

BEAUFORT, SOUTH CAROLINA

CHIEF OF PARTY

Joseph K. Wilson

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center

OFFICER-IN-CHARGE

Allen L. Powell

Director, Atlantic Marine  
Center

INSTRUCTIONS DATED (II) (III):

April 23, 1964 Field  
 September 28, 1964 Office  
 December 22, 1964 Office Amendment 1  
 February 17, 1971 Office (Final Review)

METHOD OF COMPILATION (III):

Kelsh

MANUSCRIPT SCALE (III):

1:20,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000 pantographed to 1:20,000

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

MEAN SEA 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

REFERENCE STATION (III):

MACK, 1931 ✓

LAT.:

32° 14' 17."374 (535.2m)

LONG.:

80° 46' 59."127 (1548.0m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

147,352.49 ft. ✓

x = 2,067,073.74 ft. ✓

STATE

South Carolina

ZONE

South

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

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

FORM C&GS-181b  
(3-66)

U.S. DEPARTMENT OF COMMERCE  
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
COAST AND GEODETIC SURVEY

### DESCRIPTIVE REPORT - DATA RECORD

|   |                          |                       |
|---|--------------------------|-----------------------|
| FIELD INSPECTION BY (II):<br>Matthew A. Stewart   |                          | DATE:<br>May 1964     |
| MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):<br><br>Air photo compilation - Date of photographs - March 13, 1964<br>Field Inspection - June 1964 |                          |                       |
| PROJECTION AND GRIDS RULED BY (IV):<br>A. E. Roundtree  |                          | DATE<br>Nov. 19, 1964 |
| PROJECTION AND GRIDS CHECKED BY (IV):<br>P. Hawkins   |                          | DATE<br>Nov. 19, 1964 |
| CONTROL PLOTTED BY (III):<br>A. Santillan   |                          | DATE<br>Jan. 1965     |
| CONTROL CHECKED BY (III):<br>H. Cordell   |                          | DATE<br>Jan. 1965     |
| RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):   |                          | DATE                  |
| STEREOSCOPIC INSTRUMENT COMPILATION (III):  | PLANIMETRY<br>K. Boyle   | DATE<br>Feb. 1965     |
|   | CONTOURS<br>Inapplicable | DATE                  |
| MANUSCRIPT DELINEATED BY (III):<br>A. Santillan   |                          | DATE<br>March 1966    |
| SCRIBING BY (III):  |                          | DATE                  |
| PHOTOGRAMMETRIC OFFICE REVIEW BY (III):<br>R. E. Smith  |                          | DATE<br>May 1966      |
| REMARKS:  |                          |                       |

FORM C&GS-181c  
(3-66)U.S. DEPARTMENT OF COMMERCE  
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

W Camera

## PHOTOGRAPHS (III)

| NUMBER    | DATE         | TIME | SCALE    | STAGE OF TIDE |
|-----------|--------------|------|----------|---------------|
| 64 W 4318 | Mar 13, 1964 | 1005 | 1:30,000 | 3.7           |
| 64 W 4319 | "            | 1006 | "        | 4.0           |
| 64 W 4320 | "            | 1006 | "        | 4.0           |

TIDE (III) Predicted

|  | RATIO OF RANGES | MEAN RANGE | SPRING RANGE |
|--|-----------------|------------|--------------|
| REFERENCE STATION: SAVANNAH RIVER ENTRANCE, GA.        |                 | 6.9        | 8.1          |
| COORDINATE STATION: FRIPPS INLET, HUNTING ISLAND, S.C. |                 | 6.2        | 7.3          |
| SUBORDINATE STATION:                                   |                 |            |              |

Atlantic Marine Center

~~WASHINGTON FIELD~~ REVIEW BY (IV):

C. H. Bishop

DATE:

6-24-71

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

30

RECOVERED:

18

IDENTIFIED:

0

NUMBER OF BM(S) SEARCHED FOR (II):

9

RECOVERED:

9

IDENTIFIED

3

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:



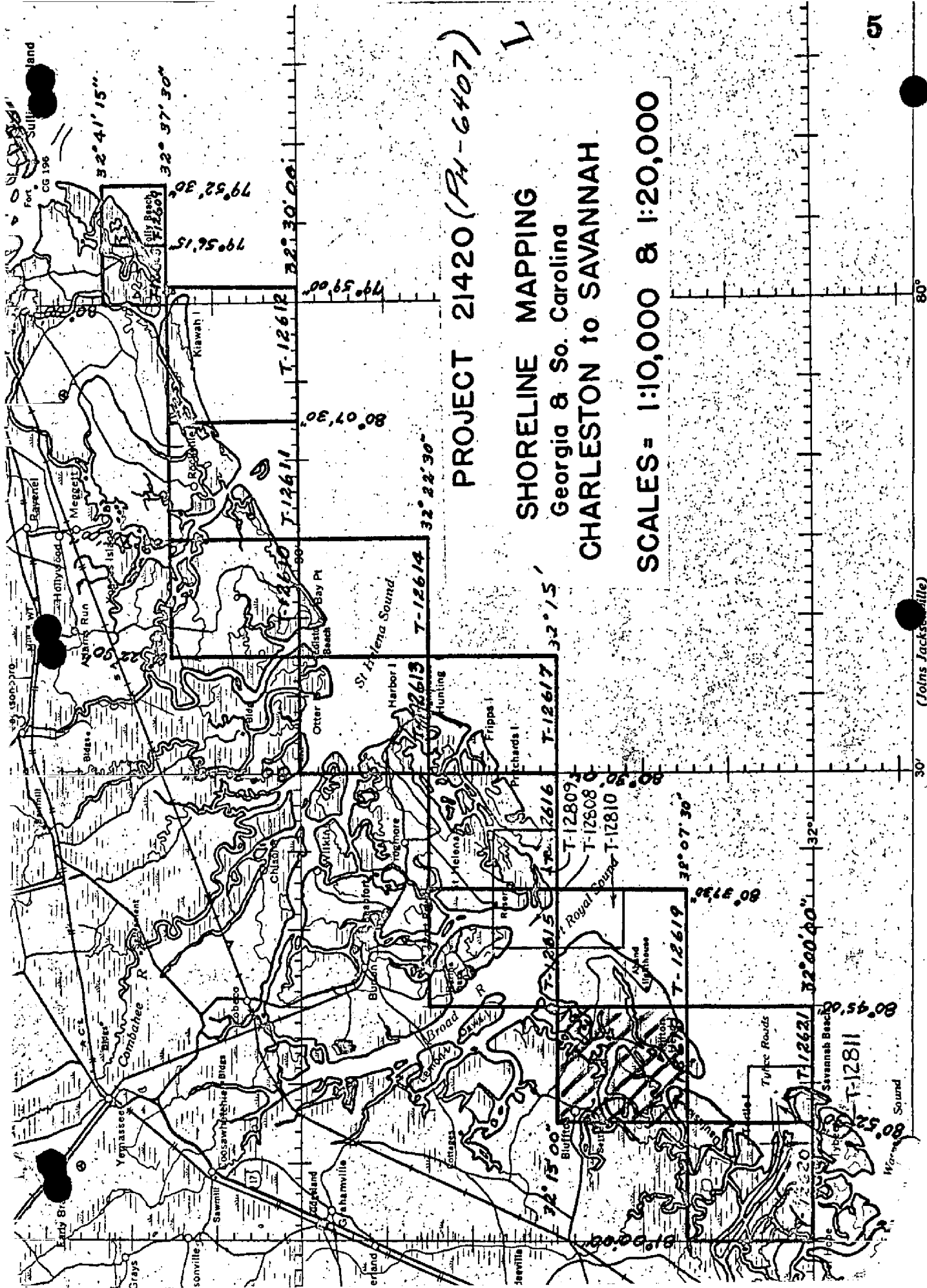
T-12618

COMPILATION RECORD

COMPLETION DATE

REMARKS

|  |            |  |
|--|------------|--|
| Compilation complete pending<br>field edit | March 1966 |  |
| Final review                               | June 1971  |  |
|  |            |  |
|  |            |  |
|  |            |  |



PROJECT 21420 (PH-6407)

SHORELINE MAPPING

Georgia & So. Carolina

CHARLESTON to SAVANNAH

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

(Joins Jacksonville)

57

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-12618

This shoreline manuscript, scale 1:20,000, 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-12618 in the project.

Compilation was by stereo-instrument. All of the photographs for T-12618 are 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 in the Rockville Science Center. Compilation was done with the Kelsh Plotter in the Atlantic Marine Center. Ratio prints at 1:20,000 scale were prepared for photo-hydro support, but hydrography was not accomplished as of June 1971.

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

Final review was done at the Atlantic Marine Center in June 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.

FIELD INSPECTION REPORT  
Project 21420 (Part 2)  
Maps T-12613 thru T-12621  
Georgia and South Carolina

Page 7

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:

| <u>T-12613</u>           | <u>T-12614</u> | <u>T-12615</u>           | <u>T-12616</u> | <u>T-12617</u>           | <u>T-12618</u> |
|--------------------------|----------------|--------------------------|----------------|--------------------------|----------------|
| 64-W-4269                | 64-S-1202      | 64-W-4298 thru 4302      | 64-W-4279      | 64-W-4271                | 64-W-4319      |
| 4270                     | 1203           | 4289 thru 4291           | thru           | thru                     | thru           |
| 64-S-1206                |                | 4307 thru 4311           | 4283           | 4273                     | 4320           |
|                          |                |                          |                |                          |                |
| <u>T-12619</u>           | <u>T-12620</u> | <u>T-12621</u>           |                |                          |                |
| 64-W-4315 thru 4286 thru | 64-W-4318 4288 | 64-W-4324 thru 4329 thru | 64-W-4327 4334 | 64-W-4321 thru 4335 thru | 64-W-4323 4337 |

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  
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  
ARCHE CREEK BEACON 1933  
BASE 1 (USE) 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  
 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  
 BULLPOINT FRONT RANGE 1931  
 BUCK 2, 1931  
 FRON 1931  
 MAG 1931  
 MARSH 2, 1931  
 MARTIN 1933  
 NO 9 (USE) 1931  
 OCHO 1921  
 SIETE 1931  
 SOUTH 1931  
 UMER 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  
 LAZAGETTO 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 FINIAL 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, OGLETHORPE 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  
 TYBRISA 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*  
Joseph K. Wilson  
Chief, Photo Party 6420

November 1964

## 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 stereo-planigraphs to provide control for compilation of shoreline.

| Strip No. | Photos          |
|-----------|-----------------|
| 1         | 64S 1206 - 1227 |
| 2         | 64W 4269 - 4273 |
| 3         | 64W 4276 - 4284 |
| 4         | 64W 4306 - 4312 |
| 5         | 64W 4296 - 4302 |
| 6         | 64W 4290 - 4294 |
| 7         | 64W 4314 - 4327 |
| 8         | 64W 4332 - 4337 |
| 9         | 64W 4286 - 4290 |
| 10        |                 |

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 #9 was ended at control station Queen because Station Fowler (200) would not hold. This was probably due to error in azimuth.

*The points had been sketched on the plate for strip #2 by the W.C., and the maps were compiled with Kelsch.*

-2-

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:

LTG  
LF

Lawrence Fritz  
John T. Gerlach

Approved by:

*John D. Perrow, Jr.*  
John D. Perrow, Jr.

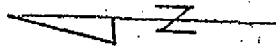
Aerotriangulation Report  
Project No. 21420  
Charleston, S.C. to Savannah, Ga.

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

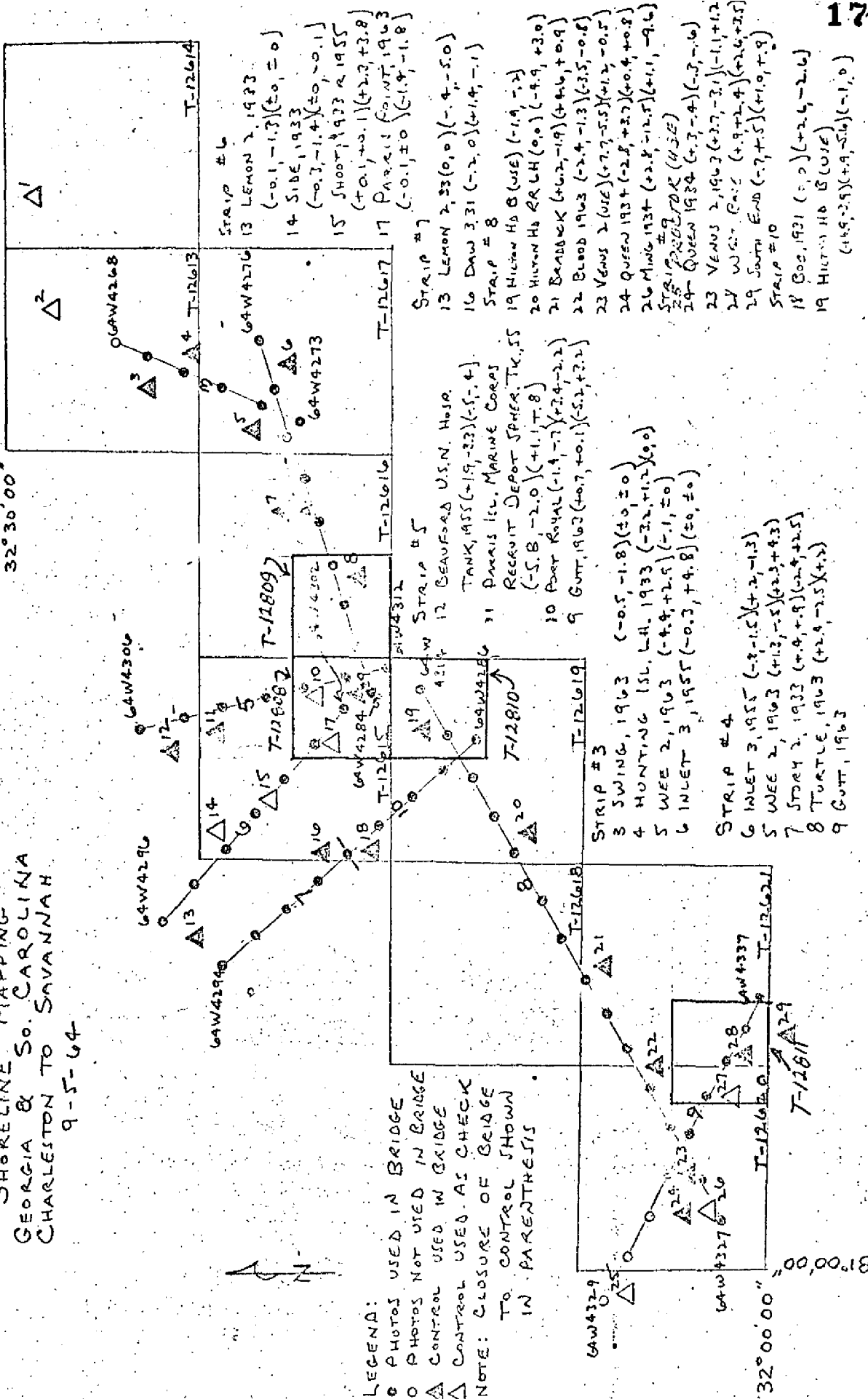


LEGEND PART 1  
 Δ CONTROL USED IN ADJUSTMENT  
 Δ CONTROL USED AS CHECK

- (1) OTTLER, 1963
- (2) SOUTH 2, 1933
- (3) POINT, 1902 Y 33, Y 1963
- (4) EDING, 1963
- (5) HICKE, 1963
- (6) ROYAL, 1963
- (7) BUST, 1963
- (8) HERMAN, 1933
- (9) SEDESSON, 1933
- (10) FINGER, 1963
- (11) BLOCK, 1900 Y 1913

# AEROTRIANGULATION SKETCH PROJECT 21420 SHORELINE MAPPING GEORGIA & SO. CAROLINA CHARLESTON TO SAVANNAH 9-5-64

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





MAP T-12618 PROJECT NO. 21420 (PH-6407) SCALE OF MAP 1:20,000 SCALE FACTOR

| STATION  | SOURCE OF INFORMATION (INDEX)       | DATUM | LATITUDE OR LONGITUDE | COORDINATE OR X-COORDINATE | DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK) | DATUM CORRECTION | N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK) | FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK) |
|--|-------------------------------------|-------|-----------------------|----------------------------|---|------------------|--|---|
| HILTON HEAD, FOREST BEACH WATER TANK 1963 (LDMK) | Form 164 NA 1927 WO                 | "     | 112,501.97            | ✓                          |   |                  |  |   |
|  |                                     |       | 2,075,612.68          | ✓                          |   |                  |  |   |
| TUBE 1964 (LDMK)                                 | Form 164 WO                         | "     | 108,931.80            | ✓                          |   |                  |  |   |
|  |                                     |       | 2,070,926.87          | ✓                          |   |                  |  |   |
| BACK, 1931                                       | PCs S p.43 Desc 203 p.56            | "     | 115,820.52            | ✓                          |   |                  |  |   |
|  |                                     |       | 2,051,586.65          | ✓                          |   | Lost -           | not plotted. CRB   |   |
| BLUFFTON, 1933                                   | GP S p.103 PC S p.40 Desc 203 p.104 | "     | 145,141.01            | ✓                          |   |                  |  |   |
|  |                                     |       | 2,037,338.34          | ✓                          |   |                  |  |   |
| BUCK, 2, 1931                                    | PCs S p.43 Desc 203 p.57            | "     | 119,593.97            | ✓                          |   |                  |  |   |
|  |                                     |       | 2,061,954.41          | ✓                          |   |                  |  |   |
| CALIBOGUE SOUND LIGHT 29, 1964                   | Unadj. Field GP Photostat           | "     | 32° 11' 47.990"       | ✓                          |   |                  |  |   |
|  |                                     |       | 80 46 58.191          | ✓                          |   |                  |  |   |
| CALIBOGUE SOUND LIGHT 31, 1964                   | Unadj. Field GP Photostat           | "     | 32 10 00.969          | ✓                          |   |                  |  |   |
|  |                                     |       | 80 47 45.705          | ✓                          |   |                  |  |   |
| DAUFUSKIE ISLAND REAR RANGE, 1920                | GP S p.111 PC S p.42 Desc 203 p.19  | "     | 113,444.23            | ✓                          |   |                  |  |   |
|  |                                     |       | 2,050,564.00          | ✓                          |   |                  |  |   |
| FAR 2, 1931                                      | PC S p.43 Desc 203 p.24             | "     | 109,400.13            | ✓                          |   |                  |  |   |
|  |                                     |       | 2,056,292.81          | ✓                          |   |                  |  |   |
| GRAHAM, 1858                                     | PC S S p.43 Desc. p.46              | "     | 141,586.56            | ✓                          |   |                  |  |   |
|  |                                     |       | 2,074,672.36          | ✓                          |   |                  |  |   |
| GRAHAM, 2, 1931                                  | PC S p.43 Desc 203 p.43             | "     | 141,152.03            | ✓                          |   |                  |  |   |
|  |                                     |       | 2,074,420.10          | ✓                          |   |                  |  |   |
| HAM, 1931  | PC S p.43 Desc. 203 p.62            | "     | 146,672.85            | ✓                          |   |                  |  |   |
|  |                                     |       | 2,063,437.02          | ✓                          |   |                  |  |   |

18

1 FT. = 3048006 METER  
COMPUTED BY:

BLB

DATE

12-28-64

CHECKED BY:

B.H.B.

DATE

2-1-65

M-2388-12



MAP T-21618

PROJECT NO. 21420 (PH-6407)

SCALE OF MAP 1:20,000

SCALE FACTOR

| STATION                | SOURCE OF INFORMATION (INDEX)              | DATUM        | LATITUDE OR $\nu$ -COORDINATE<br>LONGITUDE OR $x$ -COORDINATE | DISTANCE FROM GRID IN FEET,<br>OR PROJECTION LINE IN METERS<br>FORWARD (BACK) | DATUM<br>CORRECTION | N.A. 1927 - DATUM<br>DISTANCE<br>FROM GRID OR PROJECTION LINE<br>IN METERS<br>FORWARD (BACK) | FACTOR DISTANCE<br>FROM GRID OR PROJECTION LINE<br>IN METERS<br>FORWARD (BACK) |
|------------------------|--|--------------|---|---|---------------------|--|--|
| ULMER, 1933            | GP p.105<br>PC S p.140<br>Desc 203 p.93    | "<br>NA 1927 | 136,299.37<br>2,049,191.26                                    |   |                     |  |  |
| JEN, 1931              | GRS p.116<br>PC S p.144<br>Desc 203 p.84   | "            | 139,570.95<br>2,067,065.30                                    |   |                     |  |  |
| JESSIE 3, 1931         | GP p.112<br>PC S p.144<br>Desc 203 p.64    | "            | 139,561.16<br>2,058,600.04                                    |   |                     |  |  |
| MACK, 1931             | Gps p.116<br>PCs p.141<br>Desc 203 p.88    | "            | 147,352.49<br>2,067,073.74                                    |   |                     |  |  |
| MAG, 1931              | GP p.116<br>PC S p.144<br>Desc 203 p.84    | "            | 142,049.19<br>2,070,635.77                                    |   |                     |  |  |
| MARSH 2, 1931          | GP p.113<br>PC S p.140<br>Desc 203 p.74    | "            | 123,101.46<br>2,057,512.80                                    |   |                     |  |  |
| MARTIN, 1933<br>RM 1   | GP p.104<br>PC S p.140<br>Desc 203 p.74    | "            | 32 13' 1144.2m<br>80° 51' 849.1m                              |   |                     |  |  |
| MAY 1931 1955          | GPs p.112<br>PC S p.143<br>Desc 203 p.17   | "            | 128,509.97<br>2,064,428.50                                    |   |                     |  |  |
| NO 9 (USE), 1931       | GPs p.115<br>PC S p.144<br>Desc 203 p.147  | "            | 119,894.22<br>2,045,764.68                                    |   |                     |  |  |
| PINK, 1931             | GP p.113<br>PC S p.143<br>Desc 203 p.60    | "            | 149,907.39<br>2,074,736.07                                    |   |                     |  |  |
| RAM, 1931              | GPs p.113<br>PC S p.143<br>Desc 203 p.100  | "            | 127,968.10<br>2,067,081.74                                    |   |                     |  |  |
| SPANISH WELLS,<br>1964 | Photostat<br>Unadi-Field<br>Desc.203 p.133 | "            | 32 11' 31.097"<br>80 46 56.322                                |   |                     |  | 19   |

1 FT. = 3048006 METER  
COMPUTED BY: BLB

DATE 1-26-65

CHECKED BY: BHB

DATE

2-1-65

M-2388-12



## COMPILATION REPORT

T-12618

31. DELINEATION

The Kelsh plotter was used. Field inspection was adequate. Photography was satisfactory.

32. CONTROL

See Aerotriangulation Report dated November 1964.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was delineated as inspected or from office interpretation of the photography.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate.

The low water line was delineated from office interpretation of the photography.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

Appropriate copies of Form 567 for Landmarks and Aids to Navigation have been submitted to the Washington Office under date of April 29, 1966.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions have been made with T-12619 to the east and T-12621 to the south. No contemporary surveys to the north or west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. Quadrangle BLUFFTON, S. C., scale 1:24,000, dated 1956.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 571, scale 1:40,000, 12th edition, dated November 2, 1960, revised April 1, 1963, 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:

*A. Santillan*

A. Santillan  
Cartographic Aid

Approved:

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

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

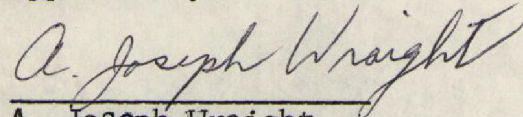
PH-6407 (South Carolina)

T-12618

Atlantic Ocean  
Baynard Cove  
Beach Pond  
Broad Creek  
Buck Island  
\* Calibogue Shoal  
Calibogue Sound  
Daufuskie Island  
Forest Beach  
Haig Point  
Harbour Town  
Heddy Gutter Creek

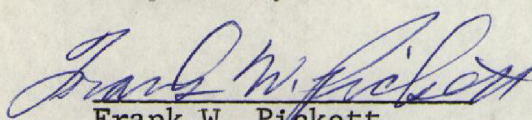
Hilton Head Island  
Long Island  
Lawton Creek  
Palmetto Bay  
Palmetto Bay Marina  
Point Comfort  
Point Comfort Creek  
Pope Avenue  
Sea Pines Plantation  
Shelly Point  
White Ibis Pond

Approved by:



A. Joseph Wraight  
Chief Geographer

Prepared by:



Frank W. Pickett  
Cartographic Technician

\* Feature not delineated. CMB

49. NOTES FOR THE HYDROGRAPHER

None



## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

April 29 1966

Atlantic Marine Center

TO BE CHARTED  
TO BE REVISED  
TO BE DELETED

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

The positions given have been checked after listing by

A. Santillan

U. Bull, Director, Atlantic Marine Center *Chief of Party.*

[illegible]

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 given. 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~~

**STRIKE OUT TWO**

I recommend that the following objects which have *(been-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

Atlantic Marine Center April 20 1966

A. Santillan

J. Bull, Director, Atlantic Marine Center

**Chief of Party.**

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. E-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and ~~navigation~~ *aid*s 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

USCOMM-DC 18234.P61

## REVIEW REPORT T-12618

## SHORELINE

June 24, 1971

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print, pages 28 through 32, with differences noted in Items 62 through 65, is bound with the original of this report.

No detailed comparison was made with tributaries within marsh areas.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with Surveys T-5134 and T-5135, both 1:20,000 scale, compiled from photographs taken in 1933. Only the northwest side of Hilton Head Island between lat. 32° 07.5' and lat. 32° 09' and the Palmetto Bay area of Broad Creek were compared. Differences between these surveys and T-12618 are shown in blue on the comparison print.

Shoreline on T-12618 around the marsh area south of Shelly Point is approximately 400 meters west of shoreline mapped on T-5134. There are also large shoreline differences in the marsh area east of Palmetto Bay. In other areas compared, the old surveys are in fair agreement with T-12618.

T-12618 supersedes previous topographic surveys for charting purposes and will be superseded by parts of TP-00271, TP-00277 and TP-00279, Project PH-7101, when they are completed.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangle BLUFFTON, S.C., scale 1:24,000, dated 1956. Differences between this survey and T-12618 are shown in brown on the comparison print.

An island mapped on the quadrangle at lat. 32° 07.7', long. 80° 50.0' does not exist.

Buck Island is not connected to Bram Point at mean high water as shown on the quadrangle.

The apparent mean high water line around the marsh area east of Palmetto Bay differs considerably with the shoreline mapped on T-12618.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

The most recent hydrographic survey available for comparison was a verified copy of the smooth sheet for H-5571, 1:10,000 scale, dated June 1934. Differences between this survey and T-12618 are shown in purple on the comparison print.

Shoreline is in fair agreement in all areas except marsh areas south of Shelly Point and east of Palmetto Bay. Differences are approximately the same as differences for these areas discussed in Item 62.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 571, scale 1:40,000, 16th edition, dated October 31, 1970. Differences between this chart and T-12618 are shown in red on the comparison print.

The charted positions of Daybeacon 1964 (probably Shark Bank Daybeacon) and Broad Creek Daybeacon 1, 1964 are approximately 0.3 mm north of the positions mapped on T-12618.

There is a significant change in the shoreline about 600 meters northeast of Shelly Point. This is not evident on the 1964 photographs.

Charted shoreline along Forest Beach is approximately 0.3 mm (60 meters) inshore from shoreline mapped on T-12618.

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*

Charles H. Bishop  
Cartographer  
June 24, 1971



Approved for forwarding:

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

Approved:

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

Approved:

  
Chief, Photogrammetric Branch DHD

  
Chief, Photogrammetry Division



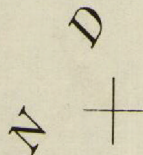
△ MAY 1931

### COMPARISON PRINT

Red = Chart 571  
 Purple = H-5571  
 Brown = U.S.G.S. BLUFFTON, S. C.

△ MARSH 2 1931

CALIBOGUE SOUND LIGHT 31 1964 △



#### NOTE:

photogrammetric location and delineation of features shore from the mean high-water line on this survey may not be complete or final. The contemporary hydrographic survey of the area where available, should be consulted for the final delineation."

charted position  
 of daybeacon

DAYBEACON 1964  
 (Privt maintd)

Buck Island

ROAD

BROAD CREEK  
 DAYBEACON 4, 1964  
 (Privt maintd)

Point

Bram Point

Point

Point



## COMPARISON PRINT

Blue = T-5135

Brown = USGS BLUFFTON, S.C.

Red = Chart 571

△ CALIBOGUE SOUND LIGHT 29 1964

△ SPANISH WELLS 1964

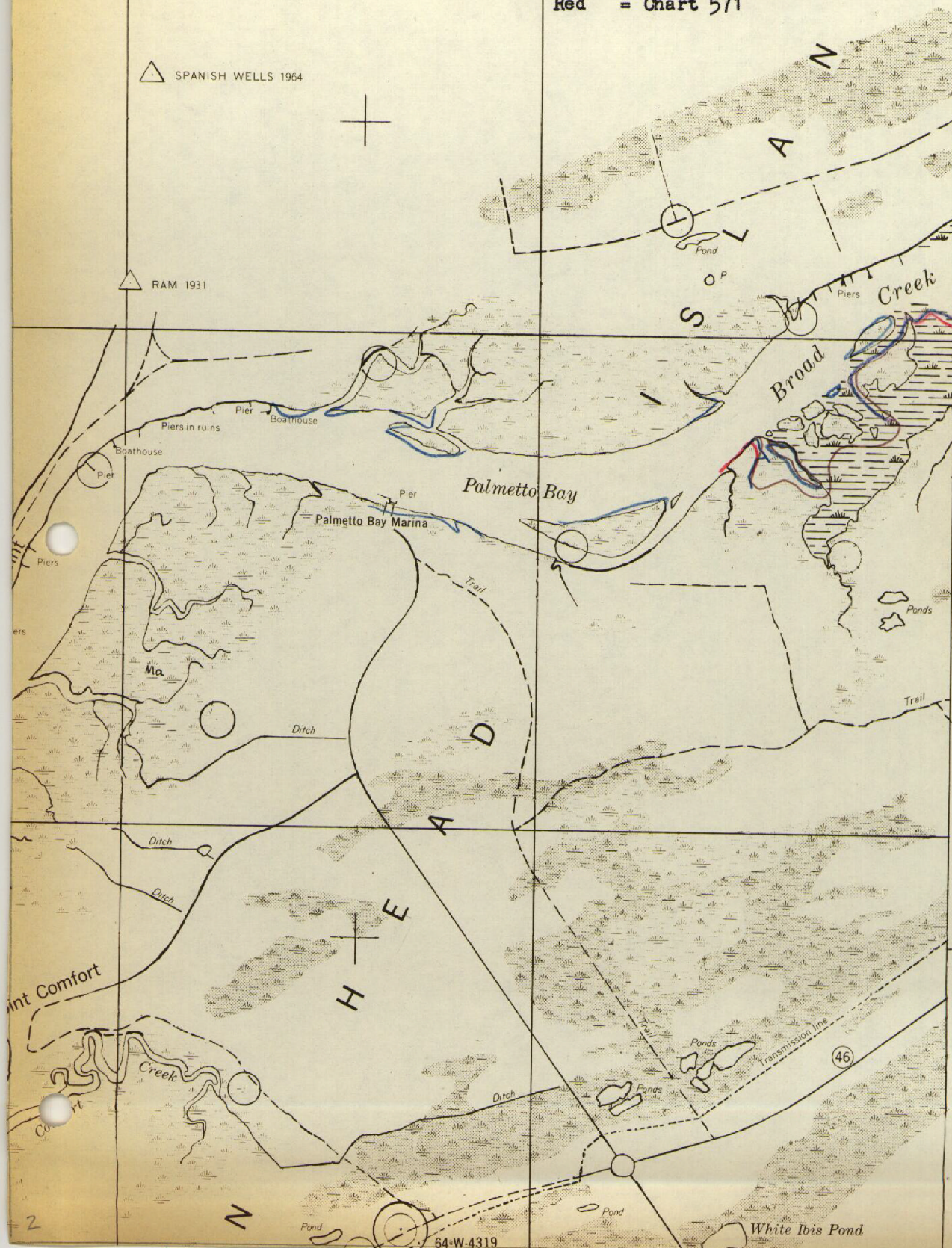
△ RAM 1931

y=130,000 FT.

11'

10'

y=120,000 FT.

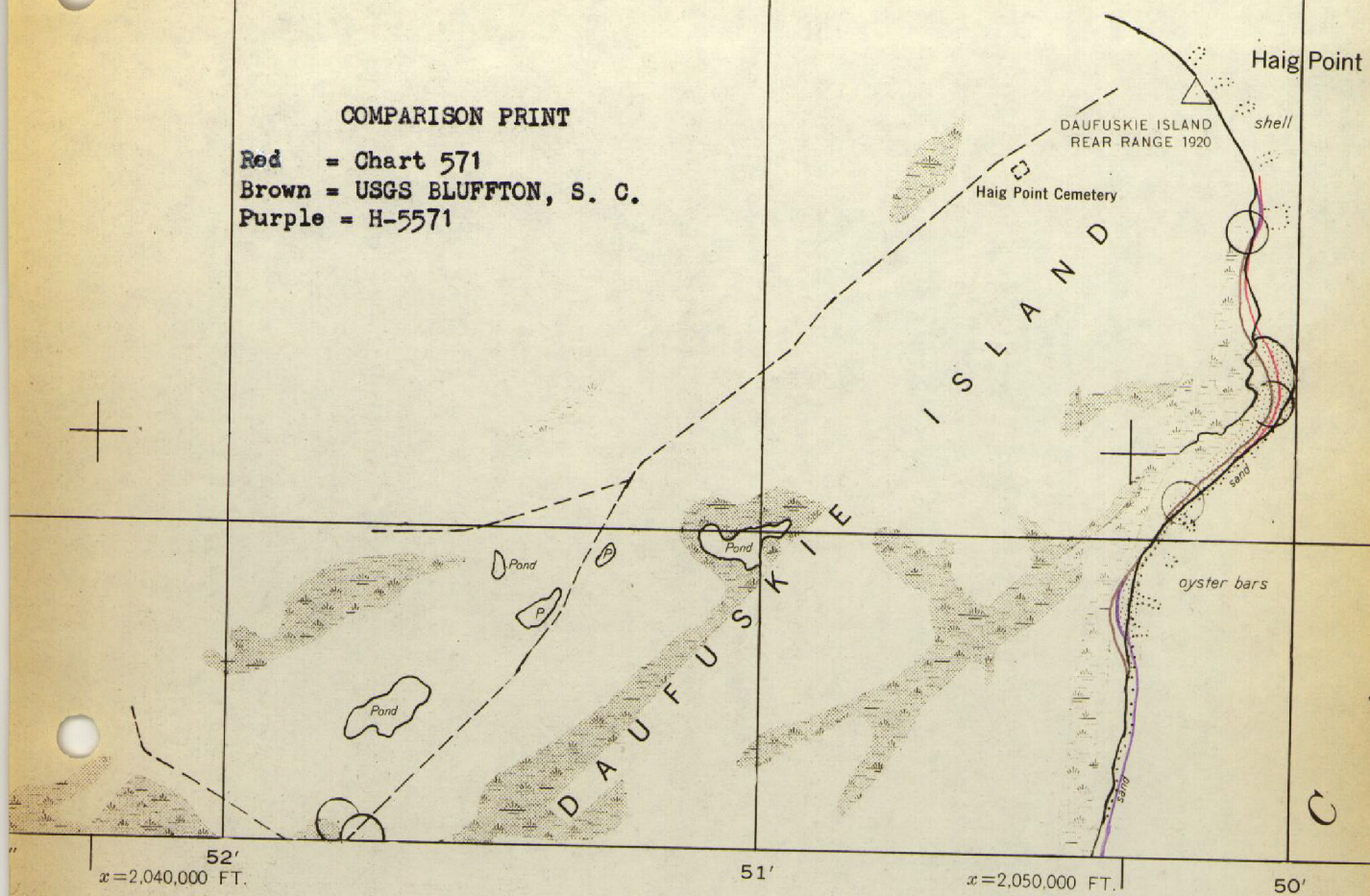


64-W-4319

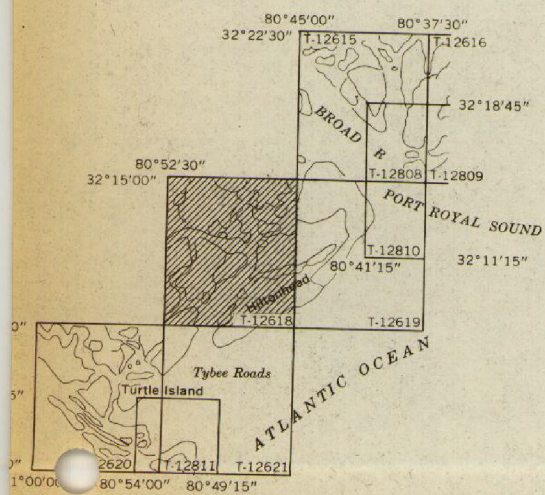


## COMPARISON PRINT

Red = Chart 571  
 Brown = USGS BLUFFTON, S. C.  
 Purple = H-5571



INDEX TO ADJOINING SHEETS  
 PROJECT PH-6407

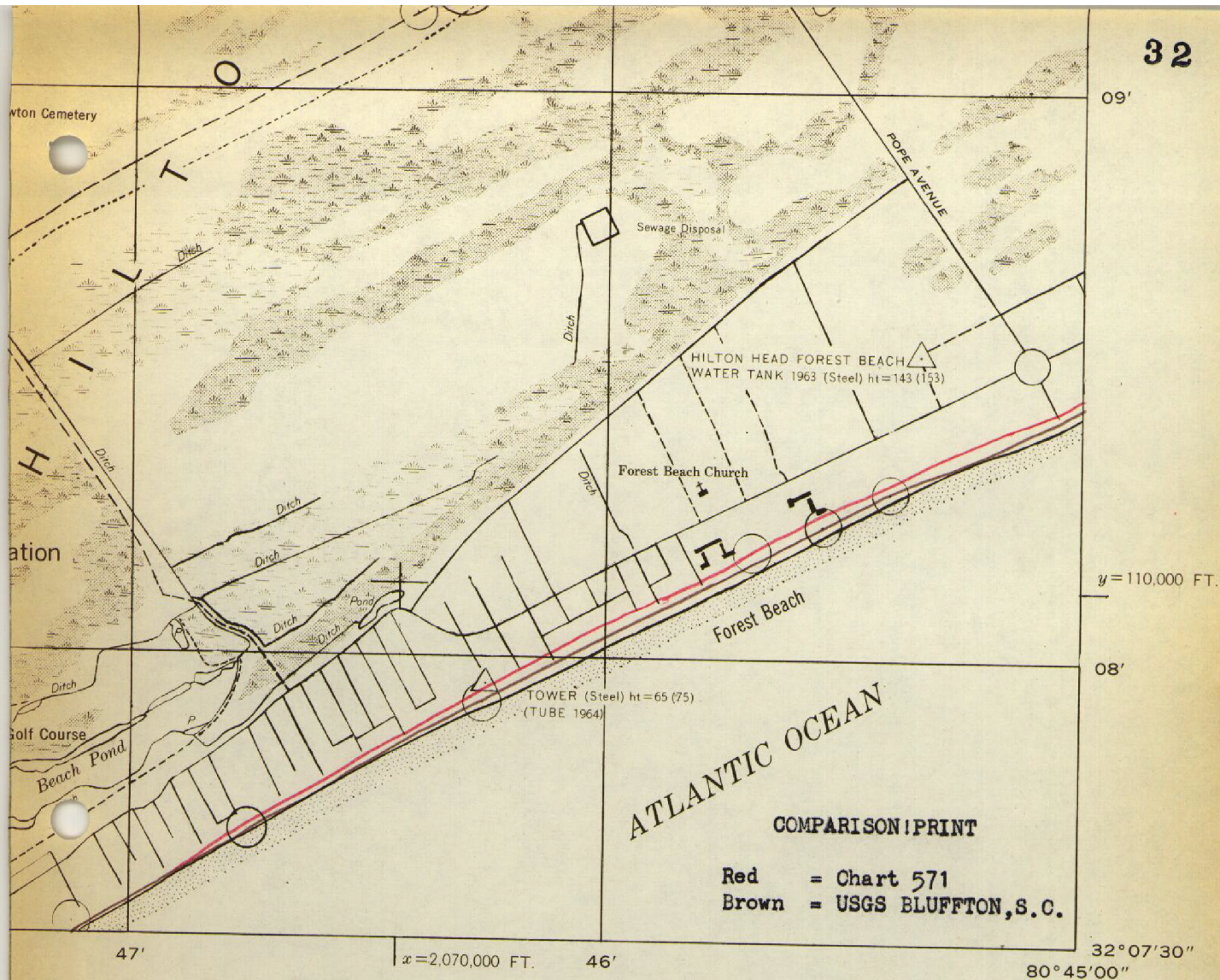


NOTE: Unlabeled circles are photogrammetric plot points; not map features









control station of third-order or higher accuracy  
control station of less than third-order accuracy  
water line

defines the mean high water line

lines the outer limits of vegetation visible above  
h water

metric methods from aerial photographs

March 1964

on May 1964

March 1966

See Review Report

June 1971

U.S. COAST AND GEODETIC SURVEY  
SHORELINE MANUSCRIPT  
T-12618  
SOUTH CAROLINA  
CHARLESTON, S.C. TO SAVANNAH, GA.

CALIBOGUE SOUND

SCALE 1:20,000

(1 inch = 1666.67 ft.)

CONTROL DATA

Polyconic projection: 1927 North American datum  
10,000 foot grid based on S.C. (South Zone) plane coordinate system  
Datum plane: Mean High Water



### 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.

[illegible]