

orig.
T-12608

T-12608

T-12608

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE (Photogrammetric)
Field No.	T-12608
Office No.	
LOCALITY	
State	SOUTH CAROLINA
General locality	CHARLESTON TO SAVANNAH
Locality	WEST END
19 64-65	
CHIEF OF PARTY	
J. K. Wilson, Chief, Photo Party 6420	
J. Bull, Director, Atlantic Marine Center	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

T 12608

PROJECT NO. (II):

21420 Job PH-6407

FIELD OFFICE (II):

Georgetown, South Carolina

CHIEF OF PARTY

Joseph K. Wilson

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center

OFFICER-IN-CHARGE

J. C. Bull, Director
Atlantic Marine Center

INSTRUCTIONS DATED (II) (III):

23 April 1964	Field
28 September 1964	Office
22 December 1964	Office, Amendment No. 1

METHOD OF COMPILATION (III):

Kelsh

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000 pantographed to 1:10,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III):

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):

BOG, 1933 ✓

LAT.:

32° 41' 08."424 (259.5m) ✓

LONG.:

79° 59' 38."562 (1004.6m) ✓

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

= 311,572.59 ft. ✓

x = 2,309,505.05 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.

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (III): Robert S. Tibbetts		DATE: October-November 1964
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo compilation - May 8, 1964 Field Inspection - July 14, 1964		
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree		DATE Nov. 1964
PROJECTION AND GRIDS CHECKED BY (IV): P. Hawkins		DATE Nov. 1964
CONTROL PLOTTED BY (III): A. Santillan		DATE Jan. 1965
CONTROL CHECKED BY (III): H. Cordell		DATE Jan. 1965
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): L. Fritz (WO) J. T. Gerlach (WSC)		DATE No date
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY K. Boyle	DATE Jan. 1965
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): K. Boyle		DATE Feb. 1965
SCRIBING BY (III): B. Barge		DATE March 1966
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. E. Smith R. J. Pate		DATE April 1966
REMARKS: FIELD EDIT: J.A. Brothers July, 1965		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

S Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE	
64 S 1186	May 8, 1964	0918	1:30,000	Below bridge	Outer Coast
1187	"	0919	"	0.7	0.3
1188	"	0919	"	0.6	0.3
1189	"	0920	"	0.5	0.3
64 S 1223	"	0939	"	0.5	0.3
1224	"	0940	"	0.3	
1225	"	0940	"	0.3	
1226	"	0941	"	0.2	

TIDE (III) Predicted

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	CHARLESTON, SOUTH CAROLINA		5.2	6.1
SUBORDINATE STATION:	Folly Island (outer coast) S.C.		5.2	6.1
SUBORDINATE STATION:	Folly River (below bridge) S.C.		5.4	6.4
<i>FINAL</i> WASHINGTON OFFICE REVIEW BY (IV): <i>M.M. SLARNEY, Atlantic Mar. Center</i>		DATE: <i>May 1966</i>		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	18	RECOVERED:	IDENTIFIED:	
		8	1	
NUMBER OF BM(S) SEARCHED FOR (II):	3	RECOVERED:	IDENTIFIED	
		0		
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):				
None				
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):				
None				

REMARKS:

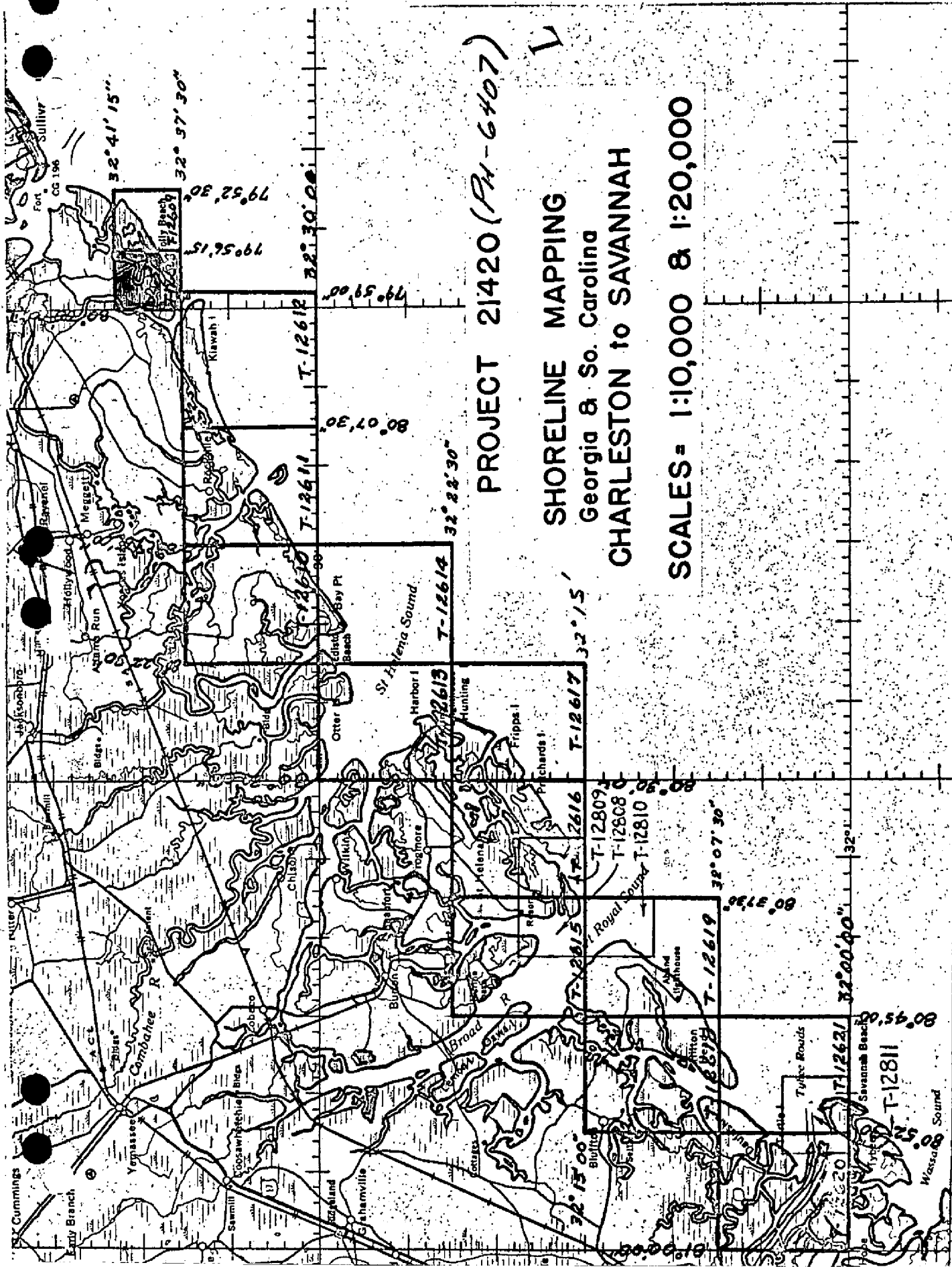
T-12608

COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for hydro	Feb. 1964	Superseded
Field Edit Applied Manuscript Complete	Dec. 1965	



PROJECT 21420 (PH-6407)

SHORELINE MAPPING

Georgia & So. Carolina

CHARLESTON to SAVANNAH

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

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12608

Shoreline manuscript T-12608 is one of six 1:10,000 scale manuscripts in Ph-6407 (Charleston to Savannah, Ga.), which also contains twelve 1:20,000 scale maps. The sketch on page 5 of this report shows the position of this manuscript in the project.

This is a stereo-instrument project in advance of hydrographic surveys of the area. All the photographs for T-12608 are panchromatic taken at 1:30,000 scale with the "S" camera on May 8, 1964. The stereo-bridge was run and adjusted to field identified control in the Washington Office. Compilation was done with the Kelsh Plotter. Ratio prints, at 1:10,000 scale were processed, and provided for photo-hydro support.

Field work preceding compilation consisted of control identification and field inspection was provided for compilation. The manuscript was field edited in conjunction with photo-hydro support.

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

FIELD INSPECTION REPORT
Project 21420 (Part 1)
Maps T-12608 through T-12612
South Carolina

2. AREA FIELD INSPECTION

This report is submitted for shoreline maps covering from South Edisto River to Light House Inlet, all of which falls in Charleston County, South Carolina. The work was accomplished during the period 21 October 1964 to 13 November 1964.

The portion bordering the Atlantic Ocean for the most part consists of high sand dunes along the ocean with marsh and swamp behind, the exceptions being Edingsville Beach and Botany Bay Island. These beaches are very low and narrow, and are awash at extreme high tides.

The area is sparsely settled. The major occupation in the area appears to be farming except for the summer vacation areas of Folly and Edisto Beaches.

The field inspection was carried out on 1964 Contact prints, 1:30,000 scale. The photographs were of excellent quality and little or no difficulty was encountered in the delineation of these maps.

3. HORIZONTAL CONTROL

Horizontal control stations that were selected to be identified on the photographs were recovered along with part 2 of this project. No attempt was made to revisit these stations. The remaining recovery was as per instructions.

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

T-12608

FOLLY BRIDGE WINDMILL, 1934
FOLLY SOUTH, 1943
SIDE, 1934
SNAKE ISLAND WINDMILL, 1933
STONO INLET BEACON NO. 1, 1933
" " " " 2, 1933
" " " " 3, 1933
" " " " 5, 1933
STONO INLET RED AND BLACK BEACON, 1933
WINDMILL WITH TWO BLADES, 1932

T-12609

FOLLY ISLAND RADIO COMPASS STATION, 1921
FOLLY ISLAND RADIO MAST, 1934
FOLLY ISLAND RADIO TOWER, 1934
MID, 1921

T-12610

BANK, 1933
DAWHO RIVER BEACON NO. 1, 1933

DAWHO RIVER BEACON NO. 2, 1933
 " " " " 3, 1933
 " " " " 4, 1933
 " " " " 6, 1933
 " " " " 8, 1933
 DAWHO RIVER LIGHT NO. 2, 1933
 " " " " 5, 1933
 " " " " 7, 1933

DISTO, 1933
 RABBIT'S POINT SHED, 1933
 STEAM, 1933
 WATT, 1933
 WATTS (USE) 1933
 WHALEY (USE) 1933
 WHO, 1933

T-12611

ANDELL, 1933
 BOHICKET CREEK BEACON, 1933

T-12612

KEY, 1921
 POND, 1915

4. VERTICAL CONTROL

A search was made for all tidal bench marks within these maps. One mark in each group recovered was identified on the photographs.

5. COUNTOURS AND DRAINAGE

Contours are inapplicable.

Drainage is almost entirely composed of tidal streams. Normal drainage is generally by direct run-off or seepage through the sand into the marsh, swamps or 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 or reference measurement in accordance with current instructions. No attempt was made to delineate the low water line.

The outer shoreline is generally a wide white sand beach bounded by a dense growth of low scrub pine, palmetto palms or myrtle bushes. These beaches seem to be subject to severe erosion. An attempt has been made to check this erosion on Folly and Edisto Islands by groins constructed perpendicular to the beach.

There are six inlets within this part of the project. Only two have buoyed channels; namely, North Edisto River and Stono Inlet.

8. OFFSHORE FEATURES

One piling was located in Folly Inlet by theodolite cuts.

One wreck has been pricked and noted on Photo no. 64S 1195.

9. LANDMARKS AND AIDS

All nautical landmarks were investigated and reported on along with part 2 of this project.

Seven fixed aids to navigation have been investigated at this time, and are reported on Form 567.

North Edisto River Entrance Range Rear Light was moved forward approximately fifteen feet on range during the period 13 to 19 August 1963. This light had a 1963 triangulation intersection position on it. It is not known whether or not this position was determined before or after it was moved; however, the light has been pricked on photo 64S 1214 and the azimuth of the range was re-determined by turning an angle between HALEY RM 3, 1963, and the Rear Range Light from the top of the front range.

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 current instructions.

Field Inspection of buildings was done in accordance with current instructions.

No new bridges or cables were noted during this survey.

Interior marsh and swamp limits have been shown on the photographs.

13. GEOGRAPHIC NAMES

See Mr. Wilson's report dated 17 July 1964.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

See Mr. Wilson's report.

Forms 567 and 24A will be forwarded with this report.

Respectively submitted,
11/23/64

Robert S. Tibbetts
Robert S. Tibbetts

MAP T-12608 PROJECT NO. 21120 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE 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)
HERNAN, 1933	PC'S SOUTH p. 26	NA 1927	301,411.82 2,316,684.96	✓			
BOG, 1933	GP p. 130 PC S p. 48 DESC 203 p. 99		311,572.59 2,309,505.05	✓ ✓			
BRUCE, 1933	GP p. 67 PC S p. 28 DESC 203 p. 67		295,844.74 2,315,886.34	✓ ✓			
KAROW, 1933	GP p. 62 PC S p. 26 203 96		301,121.74 2,321,927.28	✓ ✓			
LONG, 1934	GP p. 174 PC S p. 26 DESC 203 p. 66		310,406.38 2,323,858.64	✓ ✓			
SABLE 1933	GP p. 62 PC S p. 92 DESC 203 p. 100		295,669.36 2,311,364.21	✓ ✓			
SIDE, 1934	GP p. 174 PC S p. 92 DESC 203 p. 109		307,563.23 2,322,994.83	✓ ✓			
FOLLY RIVER LIGHT 9, 1963			32° 37' 54.870" LONG. 79° 59' 37.531" LAT.	✓ ✓		1690.2 (158.0) 978.3 (585.7)	✓ ✓
FOLLY RIVER LIGHT 11, 1963			32° 38' 08.010" LONG. 79° 59' 13.715" LAT.	✓ ✓		246.7 (160.5) 357.5 (1206.5)	✓ ✓
SOL, 1933	GP p. 178 PC S p. 26 DESC 203 pp. 107, 170		309,627.54 2,317,272.16	✓ ✓			

1 FT. = 3048006 METER
COMPUTED BY: BLB

DATE 1-28-64

CHECKED BY: RES

DATE 1-28-65

COMM-DC-57843

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
3	64W 4269 - 4273
4	64W 4276 - 4284
5	64W 4306 - 4312
6	64W 4296 - 4302
7	64W 4290 - 4294
8	64W 4314 - 4327
9	64W 4332 - 4337
10	64W 4286 - 4290

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 Proctor (use) would not hold. This was probably due to an error in azimuth.

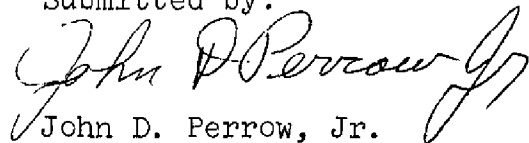
The points had been drilled on the plates of Strip #2 by W.O. The maps were compiled with the Kuhn Plotter

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.

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

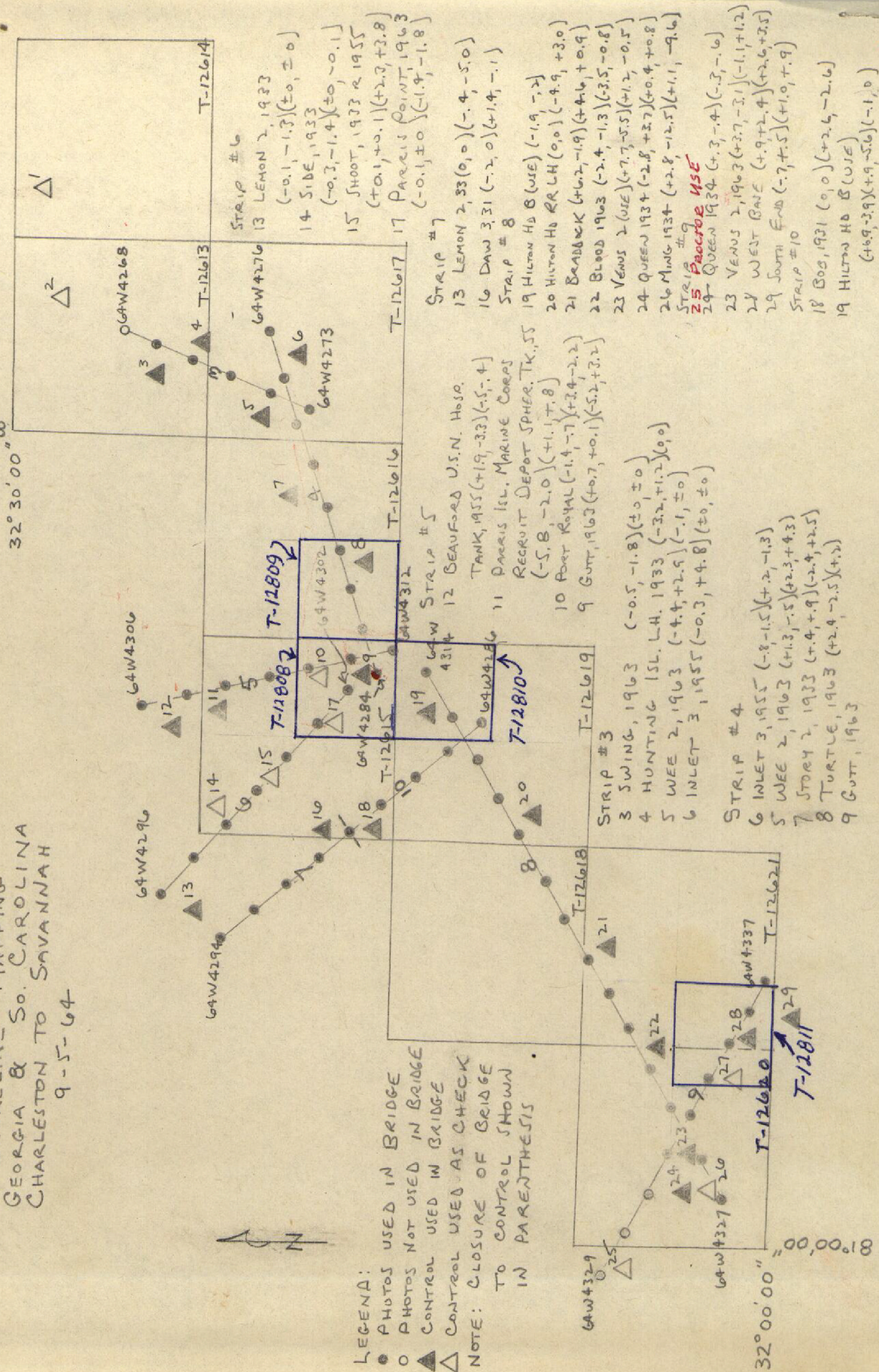
Approved by:


John D. Perrow, Jr.

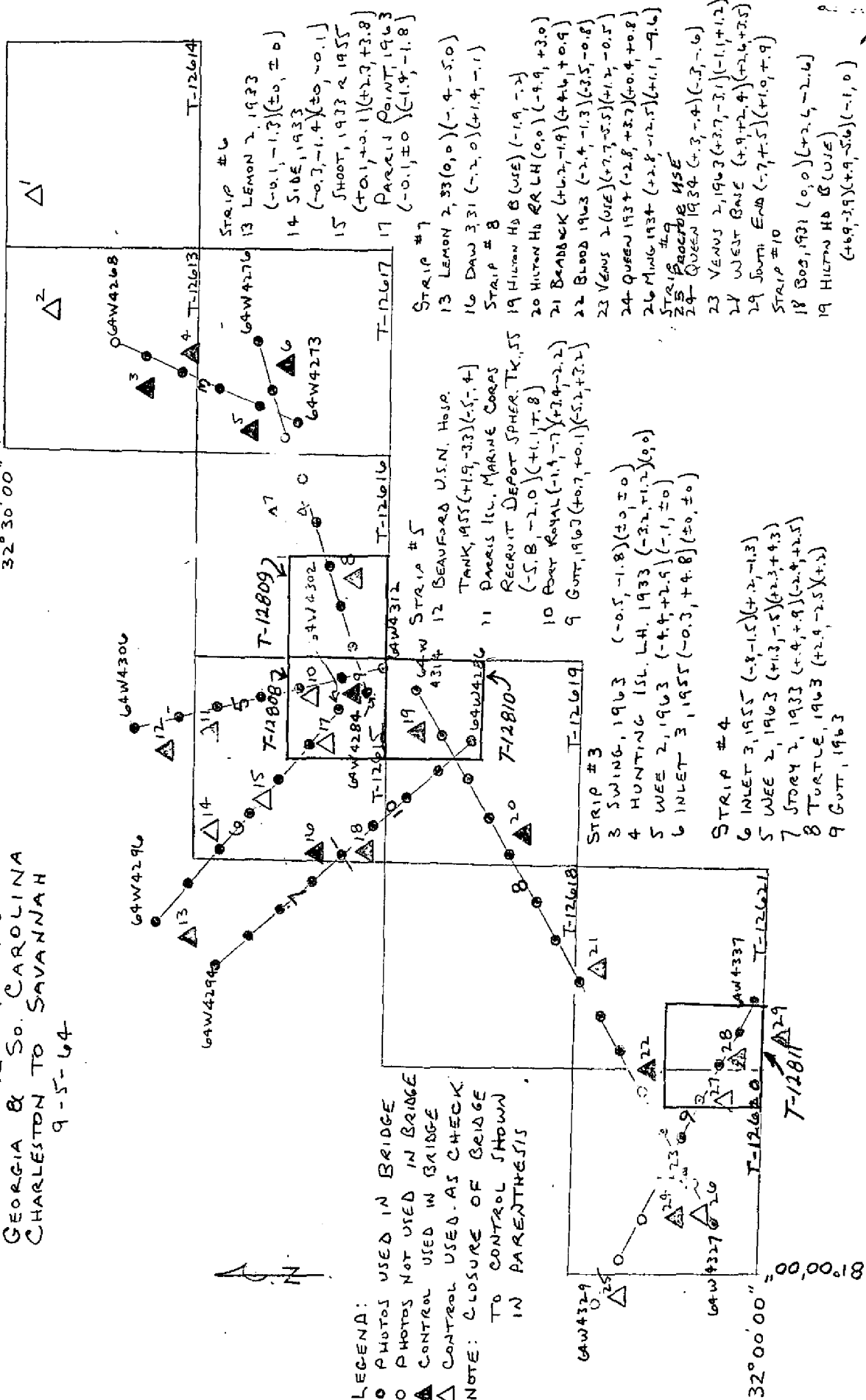
AEROTRIANGULATION SKETCH
PROJECT 21420
SHORELINE MAPPING
GEORGIA & SO. CAROLINA
CHARLESTON TO SAVANNAH
9-5-64

- 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



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

STRIP #6
 13 LEMON 2, 1933
 (-0.1, -1.3) (±0, ±0)
 14 SIDE, 1933
 (-0.3, -1.4) (±0, ±0.1)
 15 SHOOT, 1933 & 1955
 (+0.1, +0.1) (+2.3, +3.8)
 17 PARADISE POINT, 1963
 (-0.1, ±0) (-1.9, -1.8)

STRIP #7
 13 LEMON 2, 33 (0, 0) (-4, -5.0)
 16 DAW 331 (-2, 0) (-1.4, -1)
 STRIP #8
 19 HILTON HOBBS (USE) (-1.9, -2)
 20 HILTON HOBBS (USE) (-4.9, +3.0)
 21 BARNBROOK (+6.2, -1.9) (+4.6, +0.9)
 22 BARNBROOK (+2.4, -1.3) (+3.5, -0.8)
 23 VENUS 2 (USE) (+7.7, -5.5) (+1.2, -0.5)
 24 QUEEN 1933 (+2.8, +3.7) (+0.4, +0.8)
 26 MINNIE 1933 (+2.8, -12.5) (+1.1, -9.6)
 25 PACIFIC 1955
 24 QUEEN 1933 (+3.3, -4) (-3, -6)
 23 VENUS 2, 1963 (+3.7, -3.1) (-1.1, +1.2)
 24 VENUS BASE (+9, +2.4) (+2.6, +3.5)
 29 SOUTH EMB (-7, +5) (+1.0, +9)
 STRIP #10
 18 BOSS, 1931 (0, 0) (+2.4, -2.6)
 19 HILTON HOBBS (USE)
 (+6.9, -3.9) (+9, -5.6) (-1, 0)

STRIP #5
 12 BEAUFORT U.S.N. HOSP.
 TANK, 1955 (+1.9, -3.3) (-5, -4)
 11 PARADISE MARINE CORPS
 RECRUIT DEPOT SPHER. TR. 55
 (-5.8, -2.0) (+1.1, +8)
 10 BOAT KAYAK (-1.9, -7) (+7.4, -2.2)
 9 GUTT, 1963 (+0.7, +0.1) (-5.2, +3.2)

STRIP #3
 3 SWING, 1963 (-0.5, -1.8) (±0, ±0)
 4 HUNTING ISL. L.H. 1933 (-3.2, +1.2) (0, 0)
 5 WEE 2, 1963 (-4.4, +2.5) (-1, ±0)
 6 INLET 3, 1955 (-0.3, +4.8) (±0, ±0)

STRIP #4
 6 INLET 3, 1955 (-8, -1.5) (+2, -1.3)
 5 WEE 2, 1963 (+1.3, -5) (+2.3, +4.3)
 7 STONEY 2, 1933 (+4, +9) (-2.4, +2.5)
 8 TURTLE, 1963 (+2.4, -2.5) (+3)
 9 GUTT, 1963

COMPILATION REPORT
T-12608

Aerotriangulation Report submitted with this report.

31. DELINEATION

Kelsh plotter was used.

Field inspection was adequate.

Photography was satisfactory.

32. CONTROL

See aerotriangulation report.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours inapplicable.

Drainage was delineated from office interpretation.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate.

Low water line was delineated from office interpretation.

36. OFFSHORE DETAILS

No statement

37. LANDMARKS AND AIDS

Appropriate copies of form 567 for Aids have been forwarded to the Washington Office under date of April 1966.

There are no landmarks.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions were made with T-12609 to the east and T-12612 to the south. No contemporary survey to the north and west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

46. COMPARISON WITH EXISTING MAPS

Comparison made with U.S.G.S. quadrangle JAMES ISLAND, S.C., scale 1:24,000, dated 1959.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison made with chart No. 792, third edition, Feb. 24, 1964.

It is noted that Bird Key at the entrance of Stono River has eroded away to a very small island.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

A. Santillan
A. Santillan
Cartographic Aid

Approved and Forwarded:

J. C. Bull
J. C. Bull
Director, Atlantic Marine Center

48. GEOGRAPHIC NAME LIST

ATLANTIC OCEAN

BIRD KEY

COLE ISLAND

COLE CREEK

CUTOFF REACH

FOLLY BEACH (*Area & Community*)

FOLLY ISLAND

FOLLY RIVER

GREEN CREEK

KIAWAH ISLAND

OAK ISLAND CREEK

RAT ISLAND CREEK

ROBBINS CREEK

SANDY POINT

STONO INLET

TEAL ISLAND

WEST END

GEOGRAPHIC NAMES
Ph 21420 (James Island, S.C.)

T-12608 (Shoreline)

*Atlantic Ocean ***

Bird Key

* Bowen Island

Cole Creek

Cole Island

Cutoff Reach

Folly Beach (*Area & Community*)

Folly Creek

Folly River *Folly Island ***

Green Creek

* Holland Island Creek

Kiawah Island

* King Flats Creek

* Long Island

* Oak Island

Oak Island Creek

* Pea Island

* Sol Legare Island

Stono Inlet

*Sandy Point ***

* Stono River

Teal Island

Robbins Creek

* The Flats

West End

* *North of compilation limits*

*** On Final Names Sheet (James Is. S.C. quad) furnished by
Geo. Names Section.*

A. J. Wraight

A. J. Wraight
Geographic Names

T-12608

49. NOTES FOR THE HYDROGRAPHER

None

C&GS FORM 1002 (11-13-61)		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW T-10363 T-12608			
1. PROJECTION AND GRIDS RJP	2. TITLE RJP	3. MANUSCRIPT NUMBERS RJP	4. MANUSCRIPT SIZE RJP
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RJP	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 RES	10. PHOTOGRAMMETRIC PLOT REPORT BRIDGE (WO)	11. DETAIL POINTS KELSH
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE RES	13. LOW-WATER LINE RES	14. ROCKS, SHOALS, ETC. XX	15. BRIDGES RJP
16. AIDS TO NAVIGATION RJP	17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES RJP	19. OTHER ALONGSHORE CULTURAL FEATURES RJP
PHYSICAL FEATURES			
20. WATER FEATURES RJP		21. NATURAL GROUND COVER RJP	22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES RJP
CULTURAL FEATURES			
27. ROADS RJP	28. BUILDINGS RJP	29. RAILROADS XX	30. OTHER CULTURAL FEATURES RJP
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES RJP		34. JUNCTIONS RJP	35. LEGIBILITY OF THE MANUSCRIPT RJP
36. DISCREPANCY OVERLAY XX	37. DESCRIPTIVE REPORT RJP	38. FIELD INSPECTION PHOTOGRAPHS RJP	39. FORMS RJP
40. REVIEWER RJP <i>R.J. Pate</i>		SUPERVISOR, REVIEW SECTION OR UNIT ACR <i>Albert C. Rauck, Jr.</i>	
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 B. Wilson <i>B. Wilson</i>		SUPERVISOR ACR <i>Albert C. Rauck, Jr.</i>	
43. REMARKS			

Photo-Hydro
Job No. PH-6407 (21420)
Charleston to Savannah

GENERAL

Photo-hydro support to the SHIP PEIRCE was started in February 1965 and ended 1 July 1965. During this period signals for hydrography were located and built for manuscripts T-12608, T-12609, T-12612 and to the mouth of the North Edisto River on T-12611.

The SHIP PEIRCE discontinued operations on 1 July 1965 and inshore hydrography is believed to have been completed on manuscripts T-12608 and T-12609, and partially completed on manuscript T-12612.

Upon close of operations signals were removed, but in all cases a center portion of the signal was left in place to aid recovery for future use.

DATA:

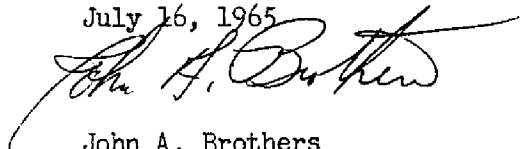
All data, photographs and manuscripts in possession of this party at close of operations have been forwarded to the Norfolk Regional Officer.

Chronaflex positive prints (blue-line substitutes) T-12608, thru T-12614 and manuscripts T-12608, T-12609, T-12611 and T-12612 are in possession of the Commanding Officer, SHIP PEIRCE. Manuscript T-12611 has signals located to the East shore of the mouth of the North Edisto River and will have to be returned to the field party before operations are resumed, or a new manuscript copy issued.

FIELD EDIT:

Field edit of the following manuscripts has been completed and the following discrepancy prints forwarded to the Norfolk Regional Officer; T-12608 thru T-12614, T-12617, T-12809 and T-12810.

Respectfully Submitted
July 16, 1965


John A. Brothers
Surveying Technician

TO BE CHARTED
TO BE REVISED
TO BE DELETED

STRIKE OUT TWO

ST. PETER
1961

I recommend that the following objects which have (*hāwā-ḥaw*) been inspected from seaward to determine their value as landmarks be charted on (*ḥarṭaḥ-ḥam*) the charts indicated.

The positions given have been checked after listing by

Lowell O. Neter, Jr.
v. Hall, Jr.

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 6-36, Fig. 79. Positions of charted landmarks and non-floating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

U5COMM-DC 25412-P81

Flight series, not being used.

TIDE CORRELATION

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. PH-21420-T-12609+12608

Time and date of exposure 09 17 May 8, 1964 Reference station CHARLESTON, SOUTH CAROLINA Mean range 5.2
Date of field inspection JULY, 1964 Subordinate station Folly Island (lower coast) S.C. young range 5.1
Ratio of ranges ---

Time		Height		Height x Ratio of ranges	Time		Time	
	h. m.		feet			h. m.		h. m.
High tide	04 18	High tide	5.0	5.0	High tide at Ref. Sta.	04 33	Low tide at Ref. Sta.	10 57
Low tide	10 39	Low tide	-0.3	-0.2	Time difference	-0 15	Time difference	-0 18
Duration of rise or fall	6 21	Range of tide		5.2	Corrected time at Subordinate station	04 18	Corrected time at Subordinate station	10 39

	h. m.		feet		feet	Photo. No.
Time H.T. or L. T.	10 39	Ht. H.T. or L. T.	-0.2	Feature bares		64-S-1184
Required time	9 17	Tabular correction	0.5	Stage of tide above MLW		
Interval	1 22	Stage of tide above MLW	0.3	Feature above MLW		
Time H.T. or L. T.	10 39	Ht. H.T. or L. T.	-0.2	Feature bares		64-S-1186
Required time	9 18	Tabular correction	0.5	Stage of tide above MLW		
Interval	1 21	Stage of tide above MLW	0.3	Feature above MLW		
Time H.T. or L. T.	10 39	Ht. H.T. or L. T.	-0.2	Feature bares		64-S-1188
Required time	9 19	Tabular correction	0.5	Stage of tide above MLW		
Interval	1 20	Stage of tide above MLW	0.3	Feature above MLW		
Time H.T. or L. T.	10 39	Ht. H.T. or L. T.	-0.2	Feature bares		64-S-1190
Required time	9 20	Tabular correction	0.5	Stage of tide above MLW		
Interval	1 19	Stage of tide above MLW	0.3	Feature above MLW		
Time H.T. or L. T.	10 39	Ht. H.T. or L. T.	-0.2	Feature bares		64-S-1192
Required time	9 21	Tabular correction	0.5	Stage of tide above MLW		
Interval	1 18	Stage of tide above MLW	0.3	Feature above MLW		
Time H.T. or L. T.	10 39	Ht. H.T. or L. T.	-0.2	Feature bares		64-S-1194
Required time	9 22	Tabular correction	0.5	Stage of tide above MLW		
Interval	1 17	Stage of tide above MLW	0.3	Feature above MLW		

Computed by David C. Page Checked by Billy H. Benson

FORM 162
(4-27-64)

Light series, not being used.

TIDE CORRELATION

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. PH-21420 T 72609 + 12608

Time and date of exposure 0912 May 8, 1964
Date of field inspection July 7, 1964
Reference station Charleston - South Carolina
Subordinate station Folly River (below bridge)
Mean range 5.4
Spring range 6.4
Ratio of ranges

	Time		Height feet	Height x Ratio of ranges	Time		Low tide at Ref. Sta.	Time difference	Corrected time at Subordinate station	Time		Low tide at Ref. Sta.	Time difference	Corrected time at Subordinate station
	h.	m.			h.	m.				h.	m.			
High tide	4	46	5.06(0.2)	5.2	04	33								
Low tide	10	48	- 0.2	- 0.2	10	13								
Duration of rise or fall	6	02		5.4										

	h.	m.	Ht. H.T. or L. T. Tabular correction Stage of tide above MLW	feet	Feature bares Stage of tide above MLW Feature above MLW	feet	Photo. No.
Time H.T. or L. T. Required time Interval	10	48		- 0.2 0.9 + 0.7			645 1184
Time H.T. or L. T. Required time Interval	10	48		- 0.2 0.9 + 0.7			645 1186
Time H.T. or L. T. Required time Interval	10	48		- 0.2 0.7 + 0.5			645 1188
Time H.T. or L. T. Required time Interval	10	48		- 0.2 0.7 + 0.5			645 1190
Time H.T. or L. T. Required time Interval	10	48		- 0.2 0.7 + 0.5			645 1192
Time H.T. or L. T. Required time Interval	10	48		- 0.2 0.7 + 0.5			645 1194

COMM. DC-57848

Computed by Billy H. Barnes - Checked by

REVIEW REPORT T-12608
SHORELINE
May, 1966

61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6)

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-11311, 1:10,000 scale, 1957, final review February 1958.

The shoreline at WEST END has moved inland about 75 meters, and the size and shape of BIRD KEY has changed.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES

JAMES ISLAND, S. C., U.S.G.S., 1:24,000, 1959.

Agreement is fair, the changes in shoreline are to be expected in this area.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

BOAT SHEET PE-20-1-65, 1:20,000, no date.

The field edit in July 1965 revealed some changes in the shoreline from the one used on the boatsheet, which was from the November 1964 field inspection.

A building, apparently a pavillion, offshore at longitude 79°56'23", and two small structures in ruins offshore at longitude 79°56'43" are omitted from the boatsheet.

The islet at latitude 32°37'41" longitude 79°59'20" is not on the boatsheet. The field editor made no note of a change since inspection.

65. COMPARISON WITH NAUTICAL CHARTS

CHART 792, 1:40,000, 4th Edition of February 14, 1966.

There are some relatively minor shoreline changes, and the following specific differences:

1. The chart shows a rock at latitude 32°38'22" longitude 79°59'01". There is a small marsh island nearby, but no evidence of a rock or a shell bank could be seen on the photographs. Neither the field inspector nor the field editor noted it.

2. Ten groins on the southshore of Folly Island have been omitted from the chart.

3. A building, at latitude $32^{\circ} 38'42''$ longitude $79^{\circ} 57'43''$ on the chart, was originally compiled, and the field editor was asked to check it. He questioned its value as a landmark building and recommended its deletion, see Field Edit Ozalid.

4. The small island at latitude $32^{\circ} 37'41''$ longitude $79^{\circ} 59'20''$ is omitted from the chart.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Future surveys should verify the delineation of notes 1, 3, and 4 as listed in Item 65.

Reviewed by:

M. M. Slavney
M. M. Slavney

Approved by:

J. Bull
J. Bull, CAPT, USESSA
Director, Atlantic Marine Center

Approved by:

Charles L. Hemmer
Chief, Cartographic Branch

L. F. Woodcock
Chief, Photogrammetry Division

Chief, Chart Division

Chief, Operations Division

NOTES TO VERIFIER
T-12608 Project 21420 (Ph-6407)
BOAT SHEET No. PE-20-1-65

The field edit in July 1965 revealed some changes in the shoreline from the shoreline on the boat sheet, which was from the November 1964 field inspection.

A building, possibly a pavillion, offshore at longitude $79^{\circ}56'23''$; and two small structures in ruins offshore at longitude $79^{\circ}56'43''$ were omitted from the boat sheet.

The islet at latitude $32^{\circ}37'41''$ longitude $79^{\circ}59'20''$ is not on the boat sheet. The field editor made no note of a change since the inspection.

U. S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY
WASHINGTON, D. C. 20235

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