

T-12613

T-12613

T-12613

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE (Photogrammetric)
Field No.	T-12613
Office No.	
LOCALITY	
State	SOUTH CAROLINA
General locality	CHARLESTON TO SAVANNAH
Locality	ST. HELENA SOUND
19. 64-65	
CHIEF OF PARTY	
J. K. Wilson, Chief Photo Party 6420	
J. Bull, Director, Atlantic Marine Center	
LIBRARY & ARCHIVES	
DATE	

5/17/67 - Chart 83750 - Part applied after V. & R. 5/16/67

6/14/67 Chart 793 Fully app after V. & R. 1/15/68

1/30/68 Chart 1239 Part app after V & R 1/15/68
app thru Chart 793

DESCRIPTIVE REPORT - DATA RECORD
T -12613

PROJECT NO. (II): 21420 Job PH-6470		
FIELD OFFICE (III): Beaufort, 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): September 28, 1964 Office December 22, 1964 Field April 23, 1964 Field Office Amendment #1		
METHOD OF COMPILATION (III): Kelsh Plotter		
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 LOW WATER 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): MOR 3, 1933 ✓		
LAT.: 32° 27' 38".613 (1189.4m)	LONG.: 80° 29' 00".979 (25.6m)	☒ ADJUSTED ☐ UNADJUSTED
PLANE COORDINATES (IV): y = 228,645.88 ft. ✓ x = 2,159,284.16 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 (II): Matthew A. Stewart Jim D. Shea		DATE: June-July 1964 " " "
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air photo compilation - May 8, 1964 Field Inspection - July, 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 (WSC)		DATE
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY R. J. Pate	DATE March 1965
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): R. J. Pate		DATE March 1965
SCRIBING BY (III): A. Shands		DATE Apr. 1966
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R.J. Pate		DATE Apr 1966
REMARKS: Field Edit J. A. Brothers July 1965		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

W & S Cameras

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64 S 1205	May 8, 1964	0930	1:30,000	0.1
1206	"	0930	"	0.1
1207	"	0931	"	0.1
64 W 4268	March 13, 1964	0918	"	5.1
4269	"	0919	"	5.1
4270	"	0920	"	5.1

TIDE (III) *Predicted*

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: SAVANNAH RIVER ENTRANCE, GEORGIA		6.9	8.1
SUBORDINATE STATION: EDISTO BEACH, EDISTO ISLAND, S.C.		5.9	6.9
SUBORDINATE STATION: FRIPPS INLET, HUNTING ISLAND, S.C.		6.2	7.3

WASHINGTON OFFICE REVIEW BY (IV):

FINAL
M. M. SLAVNEY, ATLANTIC MARINE CENT.

DATE:

JUNE 1966

PROOF EDIT BY (IV):

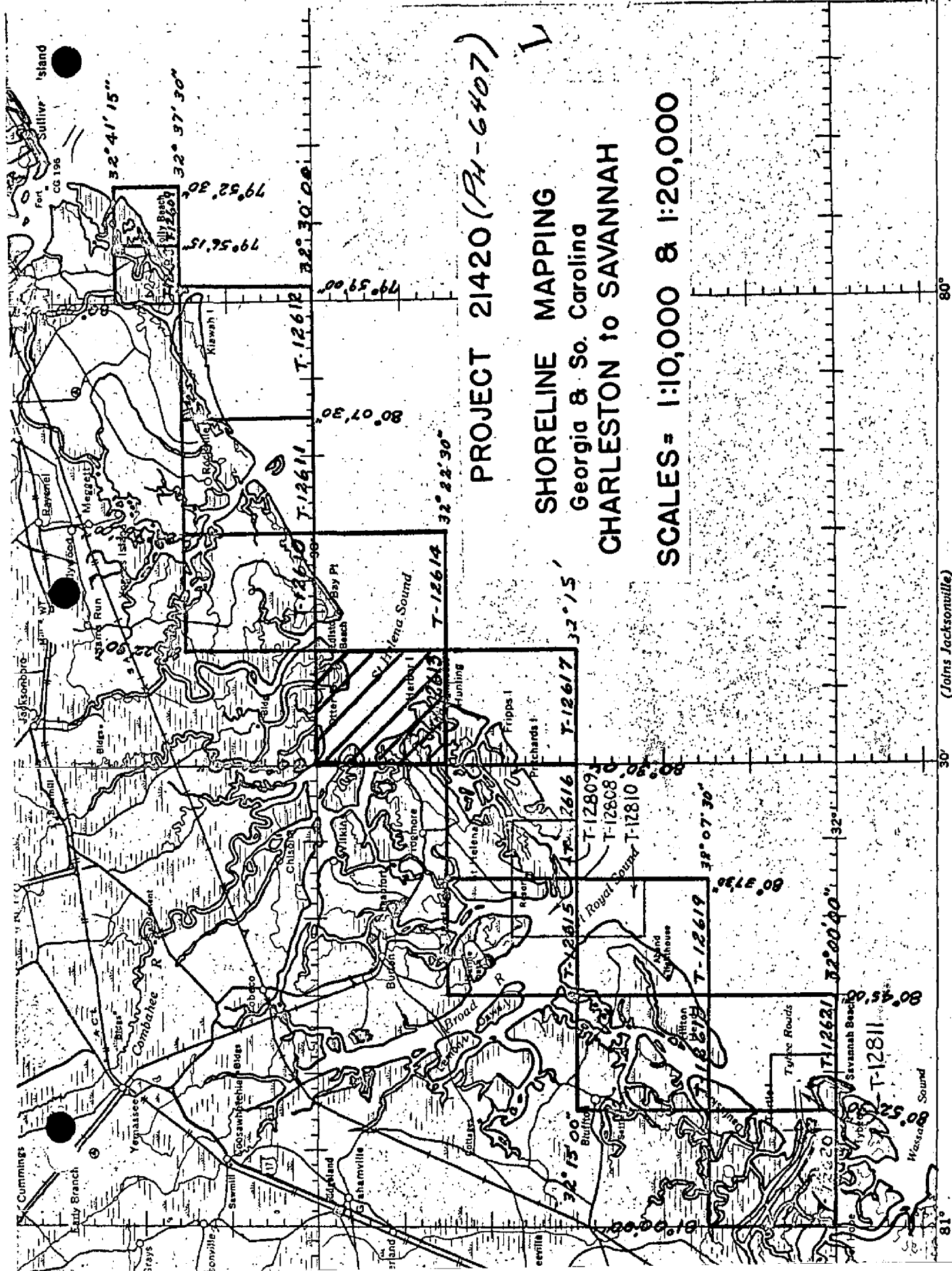
DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	30	RECOVERED:	8	IDENTIFIED:	3
NUMBER OF BM(S) SEARCHED FOR (II):	5	RECOVERED:	4	IDENTIFIED:	2
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):	none				
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):	none				
REMARKS:					

T-12613

COMPILATION RECORD COMPILATION DATE REMARKS

Compilation complete pending field edit	March 1965	Superseded
Field edit applied Compilation 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-12613

Shoreline manuscript T-12613 is one of twelve 1:20,000 scale manuscripts in Ph-6407 (Charleston, S. C. to Savannah, Ga.), which also contains six 1:10,000 scale manuscripts. 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 in the area. The photographs for T-12613 are panchromatic at 1:30,000 scale; the "W" photographs were taken March 13, 1964, and the "S" photographs were taken 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 1:20,000 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 July 1965.

The compilation manuscript was a vinylite sheet 7 minutes, 30 seconds in latitude, and 7 minutes, 30 seconds in longitude. The smooth manuscript was on cronaflex for registry and record after final review.

FIELD INSPECTION REPORT
Project 21420 (Part 2)
Georgia and South Carolina

For data pertaining to this Map see field inspection report filed
under Map T-12615.

17 July 1964
Submitted by:

Joseph K. Wilson
Joseph K. Wilson
Chief, Photo Party 6420

MAP T-12643

PROJECT NO. 21420

SCALE OF MAP 1:20,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR μ -COORDINATE LONGITUDE OR x -COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
OTTER, 1963			233,363.43	✓							
SWING, 1963			2,185,513.85	✓							
HUNTING ISLAND LIGHTHOUSE, 1902	PC S p. 25 Desc. 203 p. 145		208,771.72	✓							
COFFIN, 1933	PC S p. 27 Desc. 203-64		2167,065.69	✓							
PALMETTO, 1933	PC S p. 27 Desc. 203-60		197,668.51	✓							
BOR, 1933	PC S p. 27 Desc. 203-55		2,173,612.42	✓							
HUTCHINSON 2, 1933	PC S p. 27 Desc. 203-88		222,814.33	✓							
CENTRAL, 1933	PC S p. 30 Desc. 203-62		2,160,217.09	✓							
HUNTING ISLAND HARBOR RIVER BRIDGE CENTER LIGHT, 1955	PC S p. 27 Desc. 203-55		202,194.92	✓							
BUTCHERS ISLAND 1857	PC S p. 27 Desc. 203-62		2,171,047.12	✓							
MOR 3, 1933	PC S p. 30 Desc. 203-62		241,540.32	✓							
EGG 4, 1933	PC S p. 27 Desc. 203-82		2,162,106.45	✓							
HUNTING ISLAND HARBOR RIVER BRIDGE CENTER LIGHT, 1955	PC S p. 30 Desc. 203-62		235,312.64	✓							
BUTCHERS ISLAND 1857	PC S p. 25 Desc. 203-20		2,154,967.63	✓							
MOR 3, 1933	PC S p. 112 Desc. 203-64		208,071.75	✓							
EGG 4, 1933	PC S p. 25 Desc. 203-64		2,168,833.78	✓							
BUTCHERS ISLAND 1857	PC S p. 25 Desc. 203-20		209,498.31	✓							
MOR 3, 1933	PC S p. 25 Desc. 203-64		2,164,405.49	✓							
EGG 4, 1933	PC S p. 27 Desc. 203-82		228,645.88	✓							
EGG 4, 1933	PC S p. 27 Desc. 203-82		2,159,284.16	✓							
EGG 4, 1933	PC S p. 27 Desc. 203-82		219,235.07	✓							
EGG 4, 1933	PC S p. 27 Desc. 203-82		2,172,092.98	✓							

Not PLOTTED, Form 521 "considered destroyed"

MAP T-
T2613PROJECT NO
21420SCALE OF MAP
1:20,000

SCALE FACTOR

[illegible]

1 FT. = .3048006 METER

B.L. Barge

COMPUTED BY:

12-28-64

DATE:

CHECKED BY:

BLB

DATE _____

2-2-65

COMM-DC-57845

COMPILATION REPORT
T-12613

AEROTRIANGULATION REPORT

Submitted with T-12608.

31. DELINEATION

Kelsh plotter was used.

Field inspection was adequate.

32. CONTROL

See Aerotriangulation Report submitted with T-12608.

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, shoals, shallow areas, and breakers were delineated from office interpretation.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

Appropriate copies of forms 567 for aids and landmarks have been submitted to the Washington office under date April 20, 1966.

Photograph coverage excluded delineation west of a line from longitude 80° 26' at the north end of T-12613 to longitude 80° 29' at the south end of T-12613. The areas of PELICAN BANK and EGG BANK, which lie between latitude 32° 22.2' and latitude 32° 27.5' are also beyond photographic coverage. *W. W. Slawry*

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions were made with T-12614 to the east and T-12617 to the south.

No contemporary survey to the north or to the west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USGS Quadrangle ST. HELENA SOUND, S.C. scale 1:24,000 dated 1956.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison made with chart No.793, scale 1:40,000, 2nd edition Dec. 28, 1964.

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. Bull
J. Bull
Director, Atlantic Marine Center

48. GEOGRAPHIC NAME LIST

ASHEPOO RIVER

ATLANTIC OCEAN

BUTCHERS ISLAND

FISH CREEK

HARBOR ~~CREEK~~ *RIVER*

HARBOR ISLAND

HARBOR POINT

HUNTING ISLAND

HUTCHINSON ISLAND

JEFFORD CREEK

JOHNSON CREEK

OTTER CREEK

OTTER ISLANDS

PINE ISLAND

PINE ISLAND CREEK

ST. HELENA SOUND

WARD CREEK

GEOGRAPHIC NAMES

Ph 21420 (St. Helena Sound, S.C.)

T-12613 (Shoreline)

*Ashe Island *ATLANTIC OCEAN*

Ashepoo River

Butchers Island

* { Coffin Creek
Coffin Point
Coosaw River
Fish Creek

*Fripps Point *HARBOR ISLAND ***

Harbor Point

Harbor River

*Horse Island

Hunting Island

Hunting Island State Park *(Not used limits were not delineated)*

Hutchinson Island

Jefford Creek

Johnson Creek

* { Morgan Back Creek
Morgan Island
Morgan River

Otter Creek

Otter Islands

Pine Island

Pine Island Creek

St. Helena Sound

* { St. Helena Island
Village Creek

*WARD CREEK ***

A. J. Wraight

A. J. Wraight
Geographic Names

** Outside compilation limits*

*** Undiscovered in Geo. Name Quad (St. Helena Sound)*

T-12613

49. NOTES FOR THE HYDROGRAPHER

None.

FORM 182 (3-61)		PHOTOGRAMMETRIC OFFICE REVIEW		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
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 RJP	9. PLOTTING OF SEXTANT FIXES RJP	10. PHOTOGRAMMETRIC PLOT REPORT BRIDGE WO	
	11. DETAIL POINTS KELSH				
ALONGSHORE AREAS (Nautical Chart Data)	12. SHORELINE RJP	13. LOW-WATER LINE RJP	14. ROCKS, SHOALS, ETC. RJP	15. BRIDGES RJP	
	16. AIDS TO NAVIGATION RJP	17. LANDMARKS RJP	18. OTHER ALONGSHORE PHYSICAL FEATURES RJP		
	19. OTHER ALONGSHORE CULTURAL FEATURES XX				
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 XX	29. RAILROADS XX		
	30. OTHER CULTURAL FEATURES RJP				
BOUNDARIES	31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX		
MISCEL- LANEOUS	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		
	SIGNATURE OF REVIEWER RJP <i>R. J. Pate</i>		SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT ACR <i>Albert C. Rauck, Jr.</i>		
40. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT-Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side.					
SIGNATURE OF COMPILER RJP <i>R. J. Pate</i>			SIGNATURE OF SUPERVISOR ACR <i>Albert C. Rauck, Jr.</i>		

USE REVERSE SIDE FOR REMARKS

USCOMM-DC 26365-P61

Field Edit Report submitted with T-12608.

NON-FLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE REVISED
TO BE DELETED

STRIKE OUT TWO

APRIL 20 1966

ATLANTIC MARINE CENTER

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

R. J. Pate

J. Bull, Director, Atlantic Marine Center *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

USCOMM-DC 25412-P61

REVIEW REPORT T-12613
SHORELINE
June 1966

61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6)

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-10302; 1:10,000; Photos. March 1955; Field Inspection July to Sept. 1955
T-10303; " ; " 3/52, 3/55 & 11/55; Field Edit August 1960
T-10309; " ; " 3/55 & 11/55; Field Inspection Sept. 1955
T-10310; " ; " " " " " " "

The area of this projection covered by T-10302 is outside the limits of photograph coverage.

The area covered by T-10303 is in agreement with some shoreline changes.

T-10309 shoreline is in fair agreement, but there are cable and pipeline differences. T-12613 shows overhead and submerged cables on the south side of the bridge across the HARBOR RIVER, and a submerged pipeline (water) on the north side of the swing span. T-10309 shows "overhead cable" on the north side of the bridge over JOHNSON CREEK and a "submerged cable" on the south side of the bridge.

Changes in the exposed Atlantic Ocean shoreline of HUNTING ISLAND and HARBOR ISLAND of up to 200 meters are evident with T-10310.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES

ST. HELENA SOUND, S. C., 1:24,000, U.S.G.S., 1956

The surveys are in fair agreement excepting the Atlantic Ocean shoreline of HARBOR ISLAND and HUNTING ISLAND.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There are no contemporary hydrographic surveys for this area.

65. COMPARISON WITH NAUTICAL CHARTS

CHART 793; 1:40,000; 2nd Edition of December 28, 1964; corrected thru Notice to Mariners #7 of February 13, 1965.

The limits of photographic coverage prevented delineation of the western and central areas of ST. HELENA SOUND; see added note in Item 35 of this report.

The charted position of Pelican Bank Daybeacon A-2 is latitude $32^{\circ}26.9'$, longitude $80^{\circ}26.13'$; about 415 meters WNW of the position on T-12613. No evidence has been found to indicate the daybeacon was moved between the date of chart publication and the date of location by the field inspector. The beacon was located by theodolite cuts from 4 triangulation stations.

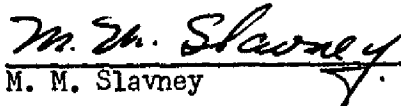
The island at Egg Bank and the two islands south west of it on the chart are beyond the limits of photographic coverage, see note in Item 35 of this report. The field editor did not note anything concerning these islands.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

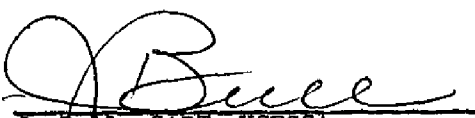
The survey complies with the instructions and meets the National Standards for Map Accuracy.

Future surveys should corroborate the position of Pelican Bank Daybeacon A-2, and the islands in the vicinity of Egg Bank.

Reviewed by:


M. M. Slavney

Approved by:


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

Approved by:


Chief, Cartographic Branch


Chief, Photogrammetry Division

Chief, Chart Division

Chief, Operations Division

NOTES TO VERIFIER
T-12613 Project 21420 (Ph-6407)
BOAT SHEET No. None

No contemporary hydrography.

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

OFFICIAL BUSINESS

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