

13036

13036

13036

Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
<i>Type of Survey</i> SHORELINE (PHOTOGRAMMETRY)	
<i>Field No.</i>	<i>Office No.</i> T-13036
LOCALITY	
<i>State</i> Mississippi	
<i>General locality</i> Mississippi Sound	
<i>Locality</i> CAT ISLAND SOUTH SPIT	
<u>19 66 - 68</u>	
CHIEF OF PARTY	
J. Bull, Director, Atlantic Marine Center	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

T - 13036

PROJECT NO. (II): PH-6625		
FIELD OFFICE (II):	CHIEF OF PARTY	
PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center	OFFICER-IN-CHARGE J. Bull, CAPT	
INSTRUCTIONS DATED (II) (III): <i>Field: Dec. 1965</i> <i>Field Suppl. #1: Mar. 11, 1966</i> <i>Office: April 27, 1966</i> <i>Field - Photo Hydro: Field Edit Sept 27, 1967</i> <i>Perotriangulation: March 1, 1966</i>		
METHOD OF COMPILATION (III): Graphic		
MANUSCRIPT SCALE (III): 1:10,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):	
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: <i>Elevations shown as (25) refer to mean high water</i> <i>Elevations shown as (5) refer to sounding datum</i> <i>i.e., mean low water or mean lower low water</i>	
REFERENCE STATION (III): SPIT, 1966 ✓		
LAT.:	LONG.:	<input type="checkbox"/> ADJUSTED <input checked="" type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): Y = 195,737.83 ft. ✓ X = 418,062.16 ft. ✓	STATE Mississippi ✓	ZONE East ✓
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

2

FIELD INSPECTION BY (II): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of photography 27 January 1966		
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree	DATE 5/5/66	
PROJECTION AND GRIDS CHECKED BY (IV): R. Glaser	DATE 5/11/66	
CONTROL PLOTTED BY (III): J. S. Place	DATE 7/11/66	
CONTROL CHECKED BY (III): L. Graves	DATE 7/11/66	
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): P. Hawkins (WSC)	DATE <i>April, 1966</i> No date	
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): J. S. Place	DATE August 1966	
SCRIBING BY (III): W. Stephens	DATE Feb. 8, 1967	
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): A. C. Rauck, Jr.	DATE <i>Lt. Anderson (F. Edit. Application)</i> <i>R.E. Smith (Scribing & Strickup)</i> <i>May 1, 1968</i> <i>" 15, 1968</i> September 1966	
REMARKS: <i>Field Edit by W.R. Cameron in Mar. 1968</i>		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C&GS Single Lens "S"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE *
66-S-2005-2006	27 Jan. 1966	10:51	1:10,000	0.0 Ft. <i>M.L.W.</i>

* Predicted TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Pensacola			1.3
COORDINATE STATION: Cat Island			1.7
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): *Atlantic Marine Center*

M. M. Flawney

DATE: *Dec. 1968*

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): *2*

RECOVERED: *1*

IDENTIFIED: *1*

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

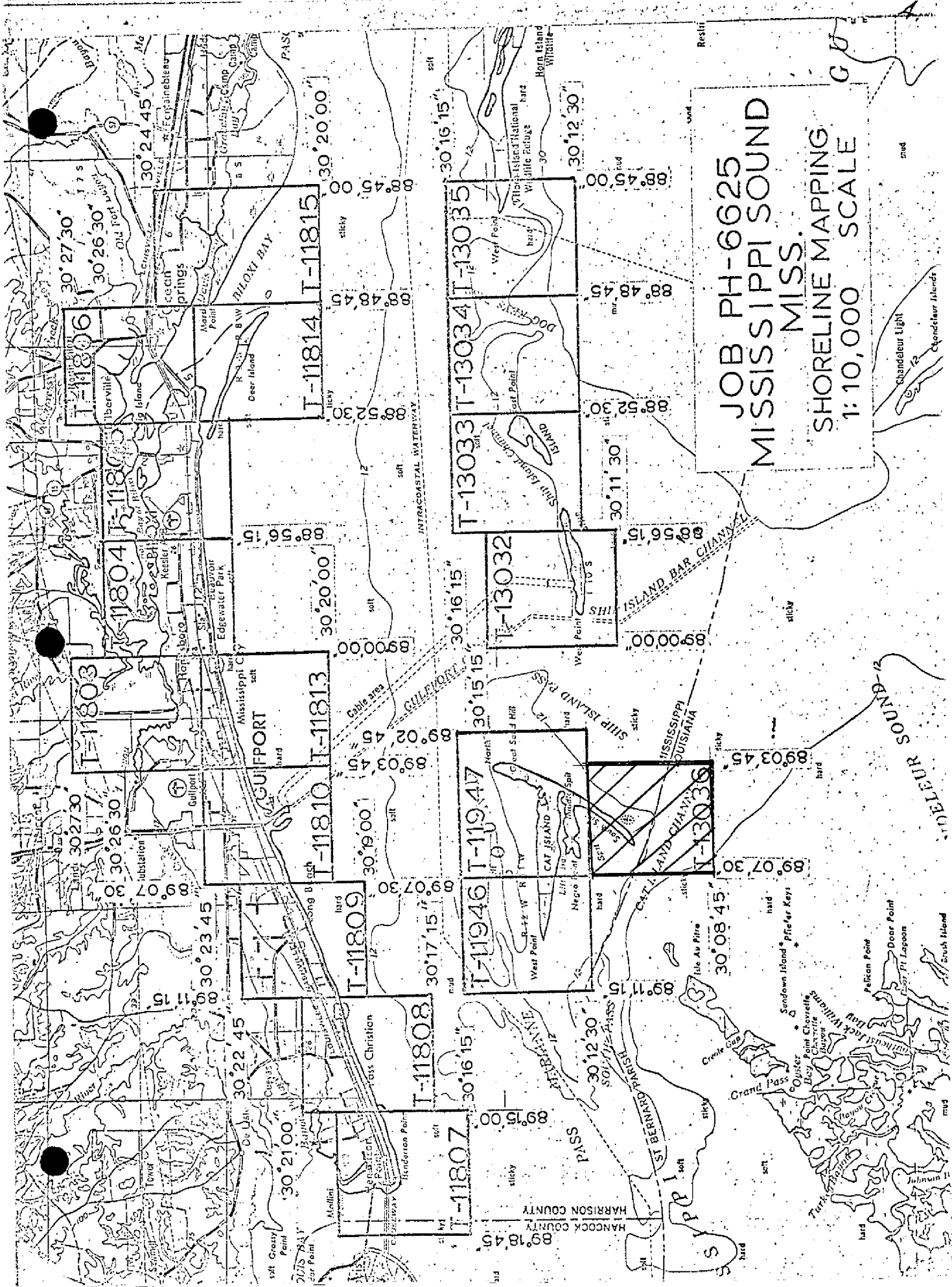
RECOVERED: *-*

IDENTIFIED: *-*

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): *-*

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): *-*

REMARKS:



JOB PH-6625
MISSISSIPPI SOUND
MISS.
SHORELINE MAPPING
1:10,000 SCALE

CU

MISSISSIPPI SOUND

HANCOCK COUNTY
HARRISON COUNTY

MISSISSIPPI

COMPILATION RECORD

COMPLETION DATE

REMARKS

Compilation Complete Subject to Field Edit	August 1966	Superseded
Field Edit applied Compilation Complete	April 1968	<i>Superseded</i>
<i>FINAL REVIEW</i>	<i>Dec. 1968</i>	

6.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-13036

Shoreline manuscript T-13036 is one of the eighteen 1:10,000 scale maps that comprise Ph-6625. These maps are for Mississippi Sound, from Bay St. Louis through Gulfport and Biloxi to Belle Fontaine Point; and the offshore area of Cat Island through Ship Island and includes the west end of Horn Island. The sketch on page 5 of this report shows the position of T-13036 in Ph-6625.

This is a stereo-instrument job in advance of hydrographic surveys of the area. The only field work preceding compilation was that pertaining to control identification, and pre-marking of control stations before photography. The stereoplanigraph bridge was run in the Washington Office with 1:10,000 scale panchromatic photography taken January 27, 1966 with the "S" camera. Compilation was by graphic method with the same photographs used for bridging. Ratio prints at 1:10,000 scale were processed for compilation and then furnished for hydro support.

The map was field edited in March 1968. Field edit was done on an ozalid and a cronaflex. The map was scribed and stuck-up after applying the field edit. The hydro-support unit returned to the area in November 1968, and on December 9, 1968 reported, by telephone "that no significant changes had occurred since the March 1968 field edit."

Final review was done at the Atlantic Marine Center during December 1968.

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude and longitude. The smooth manuscript is on cronaflex for registry and record after final review.

FIELD INSPECTION REPORT

There was no field inspection prior to compilation.

PHOTOGRAMMETRIC PLOT REPORT
Job PH-6625
Mississippi Sound, Mississippi
Part II

21. Area Covered

Part II includes the offshore islands of Mississippi Sound; T-sheets 11946, 11947, 13032, 13033, 13034, 13035 and 13036 are included in this report.

22. Method

Five strips of photography were bridged on the stereoplanigraph and adjusted by IBM 1620 methods.

Strip #11 consisted of photographs 66-S-2048 thru 2056. This strip was adjusted using only two stations with no checks.

Strip #12 consisted of photographs 66-S-~~1934~~²⁰³⁴ thru ~~2042~~¹⁹⁴². This strip was adjusted using three stations with no checks.

Strip #13 consisted of photographs 66-S-2016 thru 2027. This strip was adjusted using three stations with no checks.

Strip #14 consisted of photographs 66-S-2005 thru 2012. This strip was adjusted using three stations with no checks.

Strip #15 consisted of photographs 66-S-1978 thru 1988. This strip was adjusted using three stations with no checks.

23. Adequacy of Control

Control was at a minimum but complied with project instructions. All stations were held during bridging operations.

24. Supplemental Data

Local GS quads were used for basic leveling during bridging operations.

25. Photography

Photography was adequate as to coverage, quality and definition.

Submitted by:

Paul Hawkins
Paul Hawkins

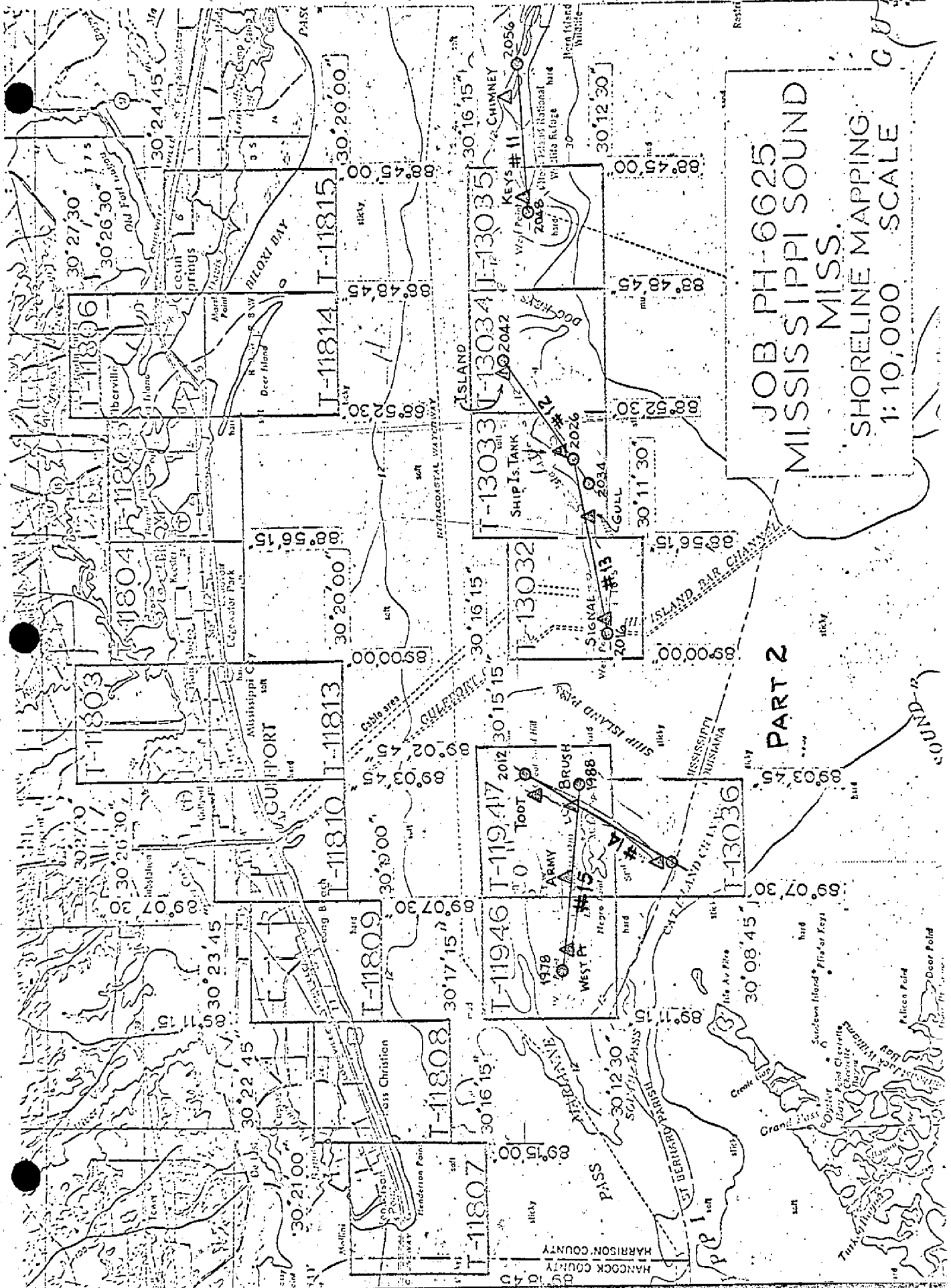
Approved by:

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

JOB PH-6625
 MISSISSIPPI SOUND
 SHORELINE MAPPING
 1:10,000 SCALE

PART 2

SOUND-12



U.S. DEPARTMENT OF COMMERCE
 COAST AND GEODETIC SURVEY
 DESCRIPTIVE REPORT

CONTROL RECORD

FORM 16H
 (4-23-54)

MAP T. 13036 PROJECT NO. PH-6625 SCALE OF MAP 1:10,000 SCALE FACTOR NONE

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -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
					FORWARD	(BACK)		FORWARD	(BACK)	
CAT ISLAND CHANNEL LIGHT 1952	G.P. Pj. 331	N.A. 1927	30° 10' 54.89" ✓		1690.2 ✓	(1573)				
			89° 06' 53.58" ✓		1433.4 ✓	(1718)				
SPIT, 1966	CONTROL RECORD (BRIDGE)	"	195, 737.83 ✓		737.83 ✓	(4,262.17) ✓				
			418, 062.16 ✓		3062.16	(193784) ✓				

1 FT. = 3048006 METER
 COMPUTED BY: A. C. RACKNER

DATE: AUG. 24, 1966
 CHECKED BY: C. Blood

DATE: AUG. 24, 1966
 COM. DC. 57843

14.

COMPILATION REPORT
T-13036

[REDACTED]

31. DELINEATION

Compiled by the graphic method. Bridge points were transferred directly from the diapositives to the ratio photographs and used as control. No other control was necessary.

There was no field inspection.

Photography was satisfactory.

32. CONTROL

See photogrammetric plot report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Not applicable.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline and shallow line was delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

Appropriate copies of Form 567 for Landmarks and Aids to Navigation have been submitted to the Washington Office under date, April 1, 1968.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions has been made with T-11947 to the north. There are no contemporary surveys to the east, south or west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS Quadrangle CAT ISLAND, MISS. LA., scale 1:24,000, dated 1951.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart No. 876-SC, scale 1:40,000, 1st Edition, dated February 26, 1966 and Chart No. 1268, scale 1:80,000, 8th Edition dated July 12, 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Approved and Forwarded:

For Mr Stark
J. Bull, CAPT, USESSA
Director, Atlantic Marine Center

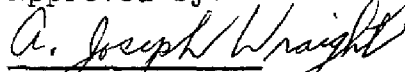
J. S. Place
J. S. Place
Cartographer

May 22, 1968

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6625 (Mississippi Sound, Miss.)
T-13036

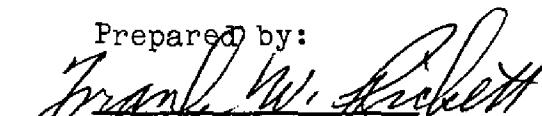
Cat Island
Cat Island Channel
Chandleur^e Sound
South Spit
Spit Cove

Approved by:



A. Joseph Wraight
Chief Geographer

Prepared by:



Frank W. Pickett
Cartographic Technician

T-13036

49. NOTES FOR THE HYDROGRAPHER:

NONE

PHOTOGRAMMETRIC OFFICE REVIEW

T-10363 T-13036

1. PROJECTION AND GRIDS ACR	2. TITLE ACR	3. MANUSCRIPT NUMBERS ACR	4. MANUSCRIPT SIZE ACR
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY ACR	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) X X		7. PHOTO HYDRO STATIONS X X
8. BENCH MARKS X X	9. PLOTTING OF SEXTANT FIXES X X	10. PHOTOGRAMMETRIC PLOT REPORT BRIDGE (WSC) ACR	11. DETAIL POINTS ACR
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE ACR	13. LOW-WATER LINE ACR	14. ROCKS, SHOALS, ETC. ACR	15. BRIDGES X X
16. AIDS TO NAVIGATION ACR	17. LANDMARKS ACR	18. OTHER ALONGSHORE PHYSICAL FEATURES ACR	19. OTHER ALONGSHORE CULTURAL FEATURES ACR
PHYSICAL FEATURES			
20. WATER FEATURES ACR	21. NATURAL GROUND COVER ACR		22. PLANETABLE CONTOURS X X
23. STEREOSCOPIC INSTRUMENT CONTOURS X X	24. CONTOURS IN GENERAL X X	25. SPOT ELEVATIONS X X	26. OTHER PHYSICAL FEATURES ACR
CULTURAL FEATURES			
27. ROADS X X	28. BUILDINGS X X	29. RAILROADS X X	30. OTHER CULTURAL FEATURES X X
BOUNDARIES			
31. BOUNDARY LINES X X		32. PUBLIC LAND LINES X X	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES ACR	34. JUNCTIONS ACR		35. LEGIBILITY OF THE MANUSCRIPT ACR
36. DISCREPANCY OVERLAY X X	37. DESCRIPTIVE REPORT ACR	38. FIELD INSPECTION PHOTOGRAPHS None	39. FORMS ACR
40. REVIEWER <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
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 <i>Richard R. White</i> R. R. White		SUPERVISOR <i>Albert C. Rauck, Jr.</i> A. C. Rauck, Jr.	
43. REMARKS Field Edit applied from Field edit ozalid and Field edit cronaflex.			

NONFLOATING AIDS OR OBSTACLES FOR CHARTS

TO BE CHARTED
~~TO BE CHARTED~~
~~TEXT CONTAINED~~

STRIKE OUT TWO

Atlantic Marine Center April 3, 1968, 19

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~charts~~ the charts indicated.

The positions given have been checked after listing by R. R. White

Clinton H. Johnson
J. Bull. RADM, USESSA
Director, AMC Chief of Party

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED BY THIS SURVEY	
				LATITUDE*		LONGITUDE*								DATUM
				D. M. METERS	"	D. M. METERS	"							
MISSISSIPPI														
	MISSISSIPPI SOUND													
	CAT ISLAND CHANNEL													
LIGHT 2	Cat Island Spit Cove Light 2			30 10	47.88	89 06	49.92	N.A.	Theod. Feb. 1968	X			1267-1268 X 876	

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 chart(s) of the area and not by individual field survey sheets. Information under each column heading should be given.

FIELD EDIT REPORT

SHEET T-13036

JOB PH-6625

MARCH 1968

PHOTO PARTY 61

William R. Cameron

LTJG-USESSA

51 Methods

All field edit work was done in accordance with project instructions and photo instructions. All shoreline on this sheet was resurveyed by planetable and the results are shown on the Field Edit Cronaflex.

An investigation of fixed aids to navigation was made and a form 567 was submitted.

All field edit notes concerning this manuscript are shown on the Field Edit Ozalid. This ozalid is an index and inventory of all field edit revisions.

52 Adequacy of Compilation

Compilation of this manuscript was adequate and complete considering there was no field inspection of the area.

54 Recommendations

None.

56 Additional Information

The two sunken wrecks could not be found.

REVIEW REPORT T-13036
SHORELINE
DECEMBER 1968

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report, and particularly the paragraph pertaining to field edit.

An ozalid Comparison Print (pages 22 ^{and} 23), which shows the differences noted in Items 62 and 65, is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Registered Survey T-9383; 1:20,000; Field Inspected and contoured March 1951, no field edit.

The T-9383 differences with this survey are shown on the Comparison Print in blue.

(a) The south end of Cat Island has extended about southwest about 500 meters (page 22).

(b) Cat Island Spit Cove Light 2, 1966 is about 230 meters south southeast of the T-9383 position for Light 1952 (page 23).

T-13036 supersedes the previously registered surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

CAT ISLAND, MISS.; U.S.G.S. quadrangle; 1:24,000 field check 1951.

The quadrangle is a reduction of Registered Survey T-9383, and the same differences apply, see Item 62.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A hydrographic survey is in progress, and its completion is scheduled for early in 1969.

65. COMPARISON WITH NAUTICAL CHARTS:

Chart 876 SC; 1:40,000; January 1968, revised to Notice to Mariners #41 of October 14, 1967.

The chart differences with T-13036 are shown in red on the Comparison Print.

(a) The shoreline of Cat Island is shifted about 50 meters eastward on the chart (page 22), which may be partially explained by the difference in scales, but the size and shape of the south end of the island are in good agreement with this survey.

(b) The chart shows two wrecks: one near $30^{\circ} 11.26'$, $89^{\circ} 05.97'$ (page 22), and another near $30^{\circ} 10.5'$, $89^{\circ} 07'$ (page 23). The wrecks are beyond our photographic coverage, and the field editor noted: "Wrecks could not be verified, consult Boat Sheet for hydrographic investigation."

(c) The chart (1:40,000) position of Light 2 ~~is~~ about 80 meters north northeast of the position on T-13036 (page 23), which is from the field editors cuts on the field edit cronaflex.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with the job instructions, though compilation was by graphic method instead of stereo-instrument. It complies with Bureau requirements, and the National Standards for Map Accuracy. No accuracy tests were run in the field.

Approved by:

Submitted by:

For *H. S. Cole*
Howard S. Cole, CAPT USESSA
Director, Atlantic Marine Center

M. M. Slavney
M. M. Slavney

Approved by:

Charles Shuman
Chief, Photogrammetric Branch, ¹²⁰

R. H. Hamilton
Chief, Photogrammetry Division

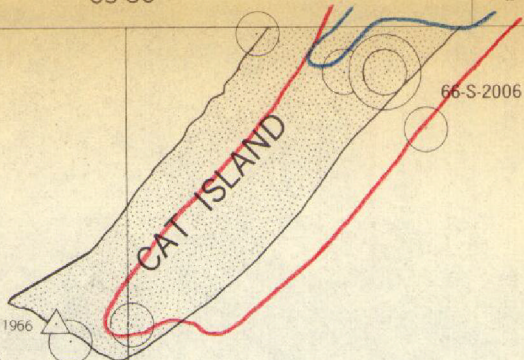
Chief, Nautical Chart Division

NOTES TO REVIEWER
T-13036, Ph-6625

Contemporary survey in progress during December 1968.

Please note Item 65.

V E



South Spit


LIMITS OF ADEQUATE PHOTO COVERAGE

06' 30"

89° 05' 30"

30° 12'

11' 30"


 "Wreck on Chart 876 sc "Could not be verified" by the field editor, "Consult Boat Sheet for details of hydrographic investigation": F. Editor.

△ "GOWE": F. Editor.

⊙ LIGHT #2

⊙ CAT ISLAND SPIT COVE LIGHT 2 1968

CAT ISLAND CHANNEL

Field editors note: "Wreck could not be verified, consult Boat sheet for details of hydrographic investigation".

30° 10' 30"

89° 06' 30"

30° 10'

07'