

11946

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11947

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Form 504
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (Photogrammetry)

Field No. _____ Office No. T-11946

LOCALITY

State Mississippi

General locality Mississippi Sound

Locality CAT ISLAND WEST POINT

1966-1968

CHIEF OF PARTY

J. Bull, Director, Atlantic Marine Center

LIBRARY & ARCHIVES

DATE _____

USCOMM-DC 5087

11946

DESCRIPTIVE REPORT - DATA RECORD

T - 11946

PROJECT NO. (II):
PH 6625

FIELD OFFICE (II):	CHIEF OF PARTY
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PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center	OFFICER-IN-CHARGE J. Bull, CAPT
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INSTRUCTIONS DATED (II) (III): *Field : Dec. 1965*
" Suppl. 1 : Mar. 11, 1966
April 27, 1966 (Office)
Field - Photo Hydro : Sept. 27, 1967
Aerotriangulation : March 1, 1966

METHOD OF COMPILATION (III):
Graphic

MANUSCRIPT SCALE (III): 1:10,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
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DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
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APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):
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GEOGRAPHIC DATUM (III): N. A. 1927	VERTICAL DATUM (III): MHW <small>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</small>
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REFERENCE STATION (III):
CAT ISLAND LIGHT HOUSE, 1903 ✓

LAT.: 30°13'50".420(1552.5m) ✓	LONG.: 89°09'41".733(1115.9m) ✓	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
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PLANE COORDINATES (IV): y = 205,254.60 ft. ✓ x = 396,330.71 ft. ✓	STATE Mississippi ✓	ZONE East ✓
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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): 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 7/12/66
CONTROL CHECKED BY (III): L. Graves		DATE 7/12/66
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): R. R. White		DATE May 13, 1968
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): <i>Lt. R. F. Anderson (Field Edit Appl.)</i> <i>R. R. Pate (Scribing)</i> R. E. Smith (Compilation)		DATE <i>5/11/68</i> <i>5/22/68</i> Sept., 1966

REMARKS: *Field Edit by W.R. Cameron in Mar. 1968*

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"S" camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	* STAGE OF TIDE
66-S-1978-1981	27 Jan. 1966	10:41	1:10,000	0.0 FT. (M.L.W.)

* Predicted TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	* SPRING RANGE
REFERENCE STATION: Pensacola, Florida			1.3
SUBORDINATE STATION: Cat Island			1.7
SUBORDINATE STATION:			

Atlantic Marine Center
WASHINGTON OFFICE REVIEW BY (IV):

M. M. Slawey

DATE: Nov 1968

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

IDENTIFIED:

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

** 2

RECOVERED:

1

IDENTIFIED

1

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

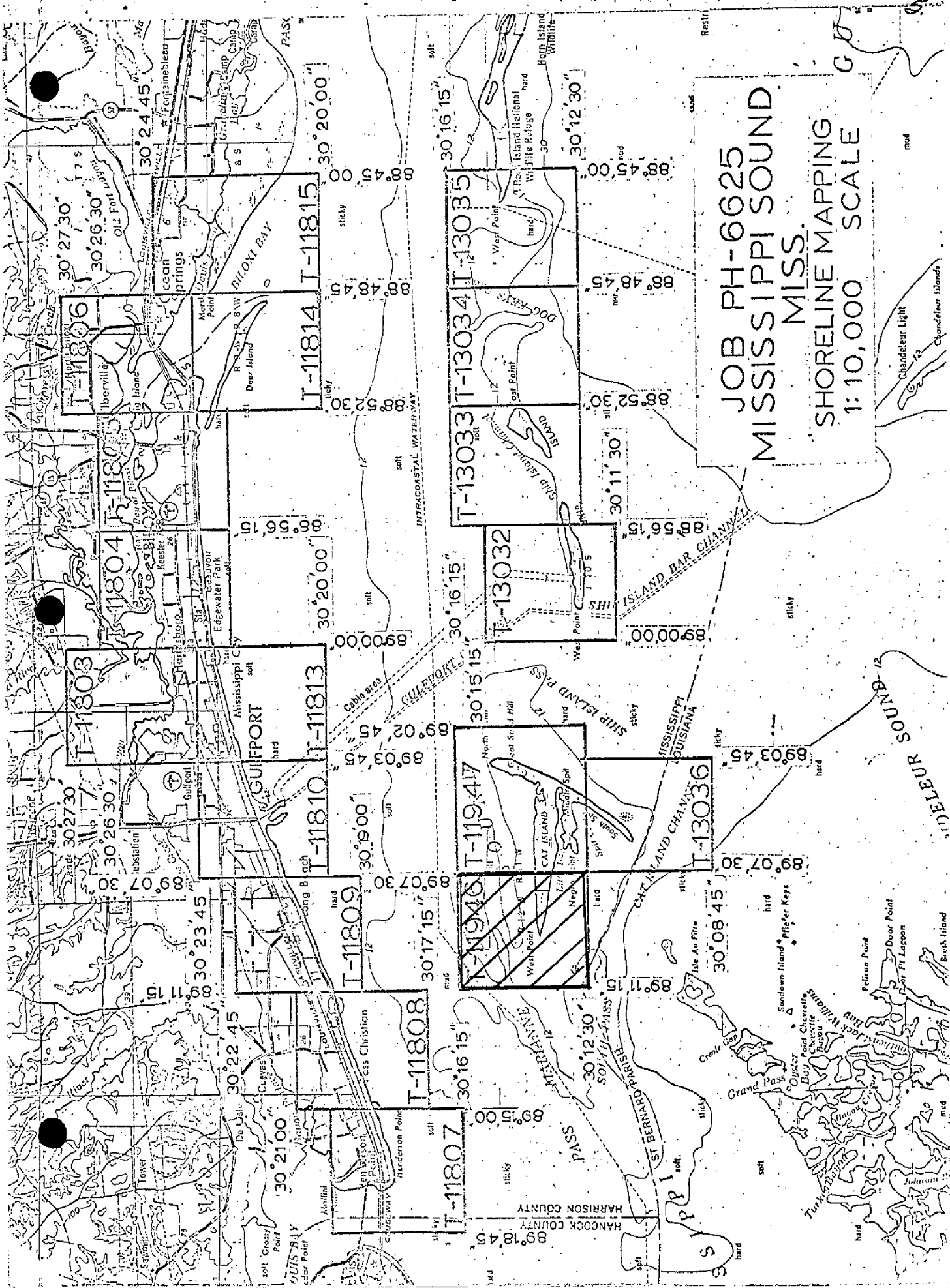
REMARKS: ** No form 526 for CAT ISLAND LIGHT HOUSE; The Field edit original states: "The L.H. has been removed, all that remains is the steel frame on which the light structure rested."

COMPILATION RECORD

COMPLETION DATE

REMARKS

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete subject to Field Edit	August, 1966	Superseded
Field Edit applied Manuscript Complete	April 1968	<i>Superseded</i>
<i>Final Review</i>	<i>Dec. 1968</i>	



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

60

MISSISSIPPI SOUND

Chandeleur Light
 Chandeleur Islands

HANCOCK COUNTY
 HANCOCK COUNTY

MISSISSIPPI
 LOUISIANA

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11946

Shoreline manuscript T-11946 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-11946 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 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, a cronaflex, and on various photographs. The map was scribed and stuck-up after applying the field edit.

The hydro-support unit returned to the area in November 1968. On December 9, 1968 they reported on the 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 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-²⁰³⁴~~1934~~ 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

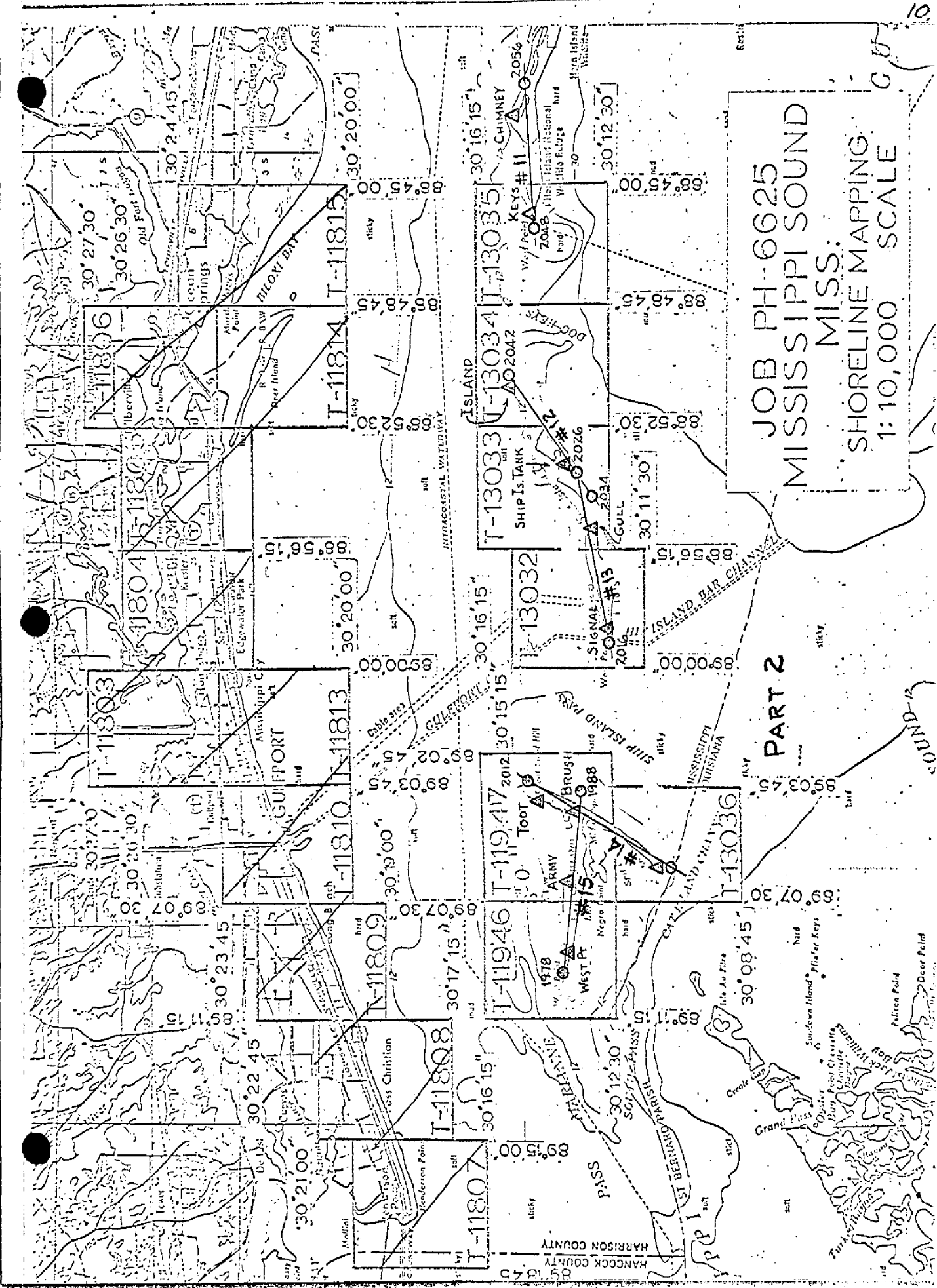
Photography was adequate as to coverage, quality and definition.

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

COMPILATION REPORT
T-11946



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

Contours are inapplicable.

Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

There was no field inspection. The shoreline was delineated from office interpretation of the photographs. No low water line was shown.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

Appropriate copies of Form 567 for Landmarks have been submitted to the Washington Office under date April 1, 1968.
There are no aids

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junction has been made with T-11947 to the east. No contemporary survey to the north, west and south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. Quadrangle ISLE AU PITRE, LA-MISS., scale 1:24,000, dated 1955.

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 *J. A. Stark*

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

J. S. Place

J. S. Place
Cartographer

May 22, 1968

48.: GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6625 (Mississippi Sound, Miss.)

T-11946

- Cat Island
- Mississippi Sound
- West Point

Approved by:

A. Joseph Wraight

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett

Frank W. Pickett
Cartographic Technician

T-11946

49. NOTES FOR THE HYDROGRAPHER:

NONE

PHOTOGRAMMETRIC OFFICE REVIEW
T-10363 11946

1. PROJECTION AND GRIDS RES		2. TITLE RES		3. MANUSCRIPT NUMBERS RES		4. MANUSCRIPT SIZE RES	
CONTROL STATIONS							
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RES			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 XX		10. PHOTOGRAMMETRIC PLOT REPORT RES		11. DETAIL POINTS XX	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE RES		13. LOW-WATER LINE XX		14. ROCKS, SHOALS, ETC. RES		15. BRIDGES XX	
16. AIDS TO NAVIGATION XX		17. LANDMARKS RES		18. OTHER ALONGSHORE PHYSICAL FEATURES RES		19. OTHER ALONGSHORE CULTURAL FEATURES RES	
PHYSICAL FEATURES							
20. WATER FEATURES RES			21. NATURAL GROUND COVER RES			22. PLANETABLE CONTOURS XX	
23. STEREOSCOPIC INSTRUMENT CONTOURS XX		24. CONTOURS IN GENERAL XX		25. SPOT ELEVATIONS XX		26. OTHER PHYSICAL FEATURES RES	
CULTURAL FEATURES							
27. ROADS RES		28. BUILDINGS RES		29. RAILROADS XX		30. OTHER CULTURAL FEATURES RES	
BOUNDARIES							
31. BOUNDARY LINES XX				32. PUBLIC LAND LINES XX			
MISCELLANEOUS							
33. GEOGRAPHIC NAMES RES			34. JUNCTIONS RES			35. LEGIBILITY OF THE MANUSCRIPT RES	
36. DISCREPANCY OVERLAY XX		37. DESCRIPTIVE REPORT RES		38. FIELD INSPECTION PHOTOGRAPHS XX		39. FORMS RES	
40. REVIEWER <i>F. E. Smith</i> RES				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 <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 Photos (matte) nos. 66-S-1979 and 1981.							

FIELD EDIT REPORT

SHEET T-11946

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.

An inspection of alongshore features such as marshes, woods, etc. was made and the delineation of these features on the manuscript was verified. See the Field Edit Ozalid for notes.

Measurements from identifiable points to the MHWL are shown on the following matte ~~ratio~~ prints:

66S1979

66S1981.

An investigation of landmarks was made and the tower on the west end of Cat Island was deemed no longer of landmark value. A form 567 was submitted.

52 Adequacy of Compilation

All the features on this manuscript were compiled correctly. The compilation was adequate and complete considering there was no field inspection of the area.

54 Recommendations

None.

56 Additional Information

None.

REVIEW REPORT T-11946
SHORELINE
DECEMBER 1968

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid Comparison Print (pages 22 ^{and} through 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-9655; 1:20,000; Field Edit March 1955.

T-9655 differences with this map are shown in blue on the Comparison Print.

(a) The "Tower", 48 ft. high, at triangulation station Cat Island Lighthouse 1903, on T-9655, has been dismantled and only the foundation and four individual steel columns about 18 to 20 feet high remain. The field editor ^(ozalid) reports that the columns are not easily visible until approaching closely, and recommended "Deletion" as a landmark. The triangulation station is retained in accordance with his 1968 recovery. ^(page 22)

(b) The shoreline is in fairly good agreement with the exception of three areas:

(1) The land area at West Point, the western tip of the island, has eroded back about 130 meters (page 22).

(2&3) The south coast of the island has eroded back at two areas, longitude 89° 07.5' and 89° 08.2', up to 60 meters. ^(page 23)

(c) It is noted that T-9655 shows none of the ponds that are on T-11946; possibly because T-9655 was compiled at 1:20,000 and the long narrow ponds may have seemed too narrow to map. T-11946 photographs were taken in January, which is not particularly a rainy period in this area and the ponds, therefore are probably not intermittent.

This map supersedes the previously registered survey for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

ISLE AU PITRE; USGS quad; 1:24,000; Field check 1955.

The quadrangle is a reduction of Registered Survey T-9655, and the same differences apply, see Item 62.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A hydrographic survey of this area 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 Oct. 14, 1967.

The Comparison Print shows the chart differences in red, and reveals that T-9655 was the probable source for the chart planimetry, with the same differences, see Item 62.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with the job instructions though compilation was by graphic method instead of stereo-instrument, Bureau requirements, and the National Standards for Map Accuracy. Some reference measurements to the M.H.W.L. were given by the field editor to check the delineation.

Approved by:

Submitted by:

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

M. M. Slavney
 M. M. Slavney

Approved by:

Charles L. Jensen
 Chief, Photogrammetric Branch *JLB*

R. H. Houlston
 Chief, Photogrammetry Division

Chief, Nautical Chart Division

NOTES TO REVIEWER
T-11946, Ph-6625

No contemporary survey; one is planned for later
in 1968.

Please note Items 62 and 65 of Descriptive Report.

09'30"

89°09'

30°14'



66 S-1978



66 S-1979

CAT ISLAND LIGHTHOUSE 1903

Boat house

Piling

5
Shell bank
Not visible on
photographs,
not noted by
field editor.

WEST POINT, 1966

West Point

C A T

30° 13' 30"

08'30"

89°08'

07'30"

30°14'

13'30"

ISLAND

66-S-1980

66-S-1981

