

11947

11947

Original

11947

11947  
27611

Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY  <b>DESCRIPTIVE REPORT</b>	
Type of Survey	SHORELINE (Photogrammetry)
Field No.	Office No. T-11947
LOCALITY	
State	Mississippi
General locality	Mississippi Sound
Locality	Cat. Island
<u>1966 - 1968</u> CHIEF OF PARTY J. Bull, Director, Atlantic Marine Center	
LIBRARY & ARCHIVES	
DATE	

USCOMM-DC 5087

11947

DESCRIPTIVE REPORT - DATA RECORD  
T- 11947

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): *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):

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):

TOOT, 1934 ✓

LAT.:

30°14' 30.792" (948.1m) ✓

LONG.:

89°04' 14.712" (393.4m) ✓

ADJUSTED

UNADJUSTED

PLANE COORDINATES (IV):

Y = 209,261.71 ft. ✓

X = 425,027.72 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

FIELD INSPECTION BY (II):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
Air Photo Compilation		
Date of Photography January 27, 1966		
PROJECTION AND GRIDS RULED BY (IV):	DATE	
A. E. Roundtree	5/5/56	
PROJECTION AND GRIDS CHECKED BY (IV):	DATE	
R. Glaser	5/11/56	
CONTROL PLOTTED BY (III):	DATE	
J. S. Place	7/11/66	
CONTROL CHECKED BY (III):	DATE	
L. Graves	7/11/66	
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):	DATE	
P. Hawkins (WSC)	April 1966 <del>No date</del>	
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):	DATE	
J. S. Place	August, 1966	
SCRIBING BY (III):	DATE	
R. R. White	May 15, 1968	
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):	DATE	
L. R. F. Anderson (F. Edit-Application) R. J. Pate (Scribing) C. H. Bishop (Compilation)	May 1, 1968 5/23/68 August, 1966	
REMARKS: Field Edit by W.E. Cameron in March 1968		

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-1982-1988	27 Jan. 1966	10:41	1:10,000	0.0 ft. MLW
66-S-2005-2012	27 Jan. 1966	10:51	1:10,000	0.0 ft. MLW

Predicted

TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SEMI-DIURNAL RANGE
REFERENCE STATION: Pensacola, Florida			1.3 ft.
COORDINATE STATION: CAT ISLAND			1.7 ft.
SUBORDINATE STATION:			

Atlantic Marine Center  
WASHINGTON OFFICE REVIEW BY (IV):

*M. W. Stearns*

DATE:  
Dec. 1968

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

4

RECOVERED:

3

IDENTIFIED:

3

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

-

RECOVERED:

-

IDENTIFIED

-

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

-

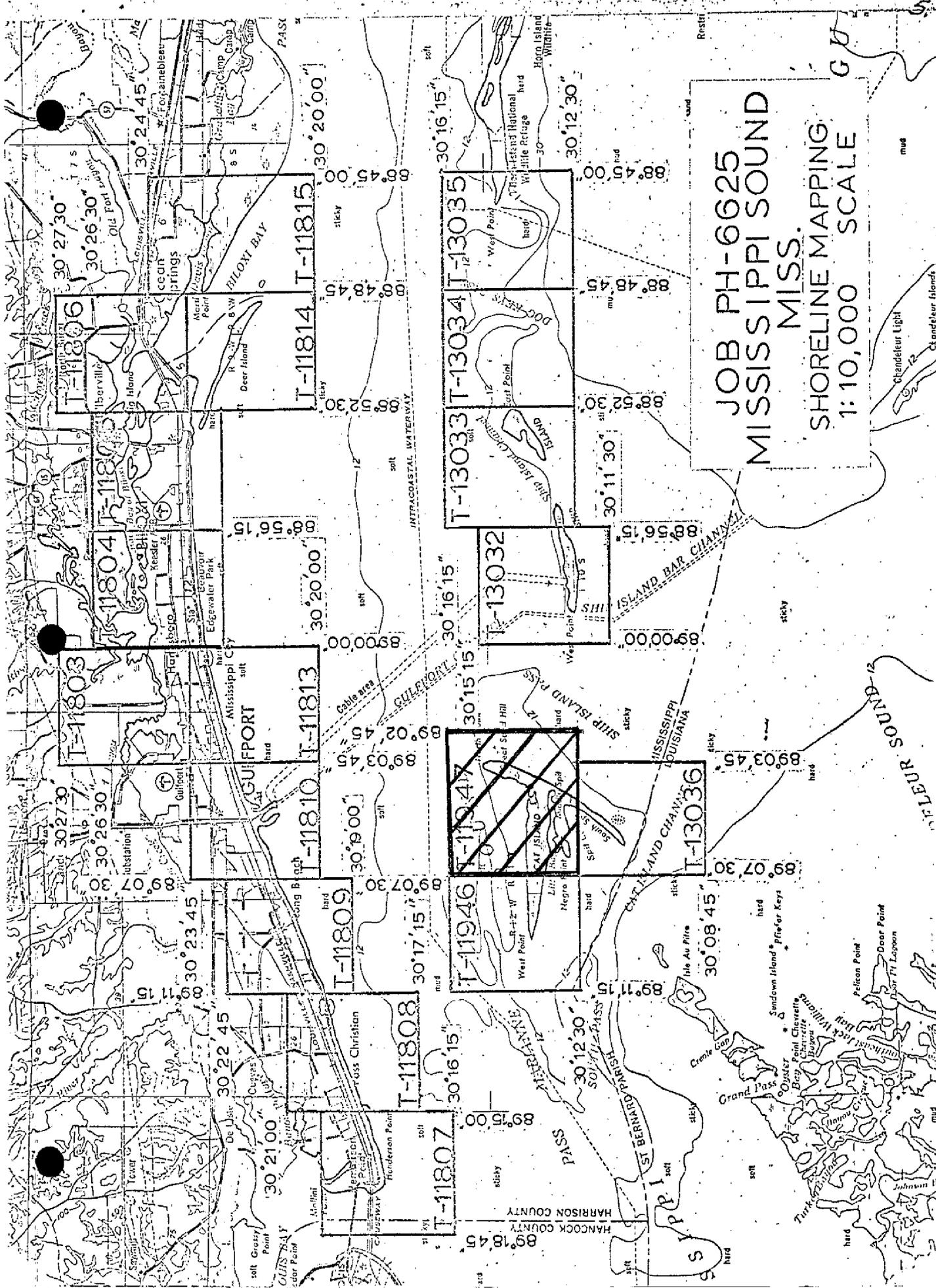
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

-

REMARKS:

T-11947

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore Area for Hydro	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

GU

Chandeleur Light  
 Chandeleur Island

MISSISSIPPI SOUND

HANCOCK COUNTY  
 HARRISON COUNTY

T-11806

T-11804

T-11803

T-11810

T-11813

T-11809

T-11808

T-11807

T-11946

T-11947

T-13032

T-13033

T-13034

T-13035

T-13036

T-11814

T-11815

T-11816

T-11817

T-11818

T-11819

T-11820

T-11821

T-11822

T-11823

30° 27' 30"

30° 26' 30"

30° 24' 45"

30° 20' 00"

30° 20' 00"

30° 20' 00"

30° 20' 00"

30° 16' 15"

30° 16' 15"

30° 16' 15"

30° 16' 15"

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6.

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-11947

Shoreline manuscript T-11947 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-11947 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 and furnished for hydro support.

The map was field edited 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 photo-hydro support unit chief reported no changes in early December 1968, excepting in the canal at longitude  $89^{\circ} 05.4'$ , between latitude  $30^{\circ} 13.5'$  and  $30^{\circ} 13.9'$ . He reported that construction was continuing and that the Boat Sheet would show the canal as it exists at the time hydrography is completed in late December 1968 or in early 1969.

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 4 minutes 45 seconds in longitude. The smooth manuscript is on cronaflex for registry and record after final review.

FIELD INSPECTION REPORT  
T-11947

There was no field inspection prior to compilation.

8

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-<sup>2034</sup>~~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.





COMPILATION REPORT  
T-11947

Photogrammetric Plot Report has been submitted with T-13032.

31. DELINEATION

Compiled by the graphic method. Bridgepoints 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, low water line and shallow lines were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junction has been made with T-11946 to the west and T-13036 to the south. Mississippi Sound is to the north and west.

*east.*

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS Quadrangle CAT ISLAND, MISS., scale 1:24,000, dated 1950.

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 *Al Stark*  
J. Bull, CAPT, USESSA  
Director, Atlantic Marine Center

*Albert C. Rauck, Jr.*  
for  
J. S. Place  
Cartographer

May 22, 1968

48. GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6625 (Mississippi Sound, Miss.)

T-11947

Cat Island

Great Sand Hill

Little Bay

Little Bend

Middle Spit

Mississippi Sound

Negro Point

North Bayou

North Point

Spit Cove

West Bank

Approved by:

*A. Joseph Wraight*

A. Joseph Wraight  
Chief Geographer

Prepared by:

*Frank W. Pickett*

Frank W. Pickett  
Cartographic Technician

T-11947

49. NOTES FOR THE HYDROGRAPHER:

NONE

PHOTOGRAMMETRIC OFFICE REVIEW

T-10868 11947

1. PROJECTION AND GRIDS <b>CHB</b>	2. TITLE <b>CHB</b>	3. MANUSCRIPT NUMBERS <b>CHB</b>	4. MANUSCRIPT SIZE <b>CHB</b>
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY <b>CHB</b>	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) <b>NONE</b>		7. PHOTO HYDRO STATIONS <b>NONE</b>
8. BENCH MARKS <b>NONE</b>	9. PLOTTING OF SEXTANT FIXES <b>NONE</b>	10. PHOTOGRAMMETRIC PLOT REPORT <b>Bridge - W. O.</b>	11. DETAIL POINTS <b>Kelsh</b>
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE <b>CHB</b>	13. LOW-WATER LINE <b>XX</b>	14. ROCKS, SHOALS, ETC. <b>CHB</b>	15. BRIDGES <b>XX</b>
16. AIDS TO NAVIGATION <b>XX</b>	17. LANDMARKS <b>XX</b>	18. OTHER ALONGSHORE PHYSICAL FEATURES <b>CHB</b>	19. OTHER ALONGSHORE CULTURAL FEATURES <b>CHB</b>
PHYSICAL FEATURES			
20. WATER FEATURES <b>CHB</b>	21. NATURAL GROUND COVER <b>XX</b>		22. PLANETABLE CONTOURS <b>XX</b>
23. STEREOSCOPIC INSTRUMENT CONTOURS <b>XX</b>	24. CONTOURS IN GENERAL <b>XX</b>	25. SPOT ELEVATIONS <b>XX</b>	26. OTHER PHYSICAL FEATURES <b>CHB</b>
CULTURAL FEATURES			
27. ROADS <b>CHB</b>	28. BUILDINGS <b>CHB</b>	29. RAILROADS <b>XX</b>	30. OTHER CULTURAL FEATURES <b>XX</b>
BOUNDARIES			
31. BOUNDARY LINES <b>XX</b>		32. PUBLIC LAND LINES <b>XX</b>	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES <b>CHB</b>	34. JUNCTIONS <b>CHB</b>		35. LEGIBILITY OF THE MANUSCRIPT <b>CHB</b>
36. DISCREPANCY OVERLAY <b>XX</b>	37. DESCRIPTIVE REPORT <b>CHB</b>	38. FIELD INSPECTION PHOTOGRAPHS <b>XX</b>	39. FORMS <b>CHB</b>
40. REVIEWER <b>CHB</b> <i>Charles H. Bishop</i>		SUPERVISOR, REVIEW SECTION OR UNIT <b>ACR</b> <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.			
COMPILED <i>R. R. White</i> <b>R. R. White</b>		SUPERVISOR <i>Albert C. Rauck, Jr.</i> <b>A. C. Rauck, Jr.</b>	
43. REMARKS  Field Edit applied from <ol style="list-style-type: none"> <li>1. Field Edit Ozalid</li> <li>2. Field Edit cronaflex</li> <li>3. Field Photos (Matte) Nos: 66-S-1982, 1984, 1986, 1996, and 66-S-2010</li> </ol>			

FIELD EDIT REPORT

SHEET T-11947

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. Shoreline verification and revision was accomplished by planetable surveys. Changes are shown on the Field Edit Cronaflex.

An inspection of alongshore and interior features was made and corrections are shown on the Field Edit Ozalid. This ozalid is an index and inventory of all corrections and additions to be applied to the map manuscript.

Measurements were made from identifiable points to the MHWL and are shown on the following matte ~~ratio~~<sup>correct</sup> prints in violet ink:

- 66S1982
- 66S1984
- 66S1986
- 66S1996
- 66S2010.

No landmarks or fixed aids to navigation appear on this sheet.

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 interior area of South Spit does not flood at MHW. Therefore this area should be shown as open.

REVIEW REPORT T-11947  
SHORELINE  
DECEMBER 1968

61. GENERAL STATEMENT:

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

Two piles near 30° 14.23', 89° 05.37' were located by the field editor; they are beyond the limits of photographic coverage.

An ozalid Comparison Print (pages 21 through 24), which shows the differences noted in Items 62 and 65, is included with the original copy of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

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

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

(a) The Comparison Print reveals shoreline changes, minor in some areas, to 150 meters in others.

(b) The two piles near 30° 14.23', 89° 05.37' (page 22) were not on T-9383.

(c) The canal running north from 30° 13.5', 89° 05.4' is new since T-9383 (page 22).

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

CAT ISLAND, MISS; U.S.G.S. quad; 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 contemporary hydrographic survey is being done; completion is planned in early 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 with this survey in red. It is noted that the chart is in considerably better agreement with T-11947, considering the scale difference; than T-9383 (see Item 62) is.

(a) The two piles near 30° 14.23', 89° 05.37' (page 22) are not on the chart.

(b) The chart shows "stumps" near 30° 12.75', 89° 06.25' and "snags" near 30° 12.9', 89° 05.5' that are not on T-11947 (page 22). They are not visible on the photographs, and were not noted by the field editor.

(c) The chart shows a wreck, "PA" near 30° 15.1', 89° 05.25' that does not appear in T-11947. It is beyond the photographic coverage, and was not located by the field editor.

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 the Bureau requirements and the National Standards for Map Accuracy. No accuracy tests were run in the field.

Approved by:

For *H. S. Cole*

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

Submitted by:

*M. M. Slavney*

M. M. Slavney

Approved by:

*Charles L. ...*  
Chief, Photogrammetric Branch *jjb*

*R. H. ...*  
Chief, Photogrammetry Division

Chief, Nautical Chart Division

NOTES TO REVIEWER  
T-11947, Ph-6625

Contemporary <sup>hydro</sup> survey in progress during December 1968.  
Please note Items 62 and 65 of the Descriptive Report.

14'  
05.000 FT.  
13'30"  
13'  
00.000 FT.

*Pier & Dolphin as on 8765C*



*89° 07'*

*30° 13' 30"*

*89° 06' 30"*

Negro Point

89° 50' 30"

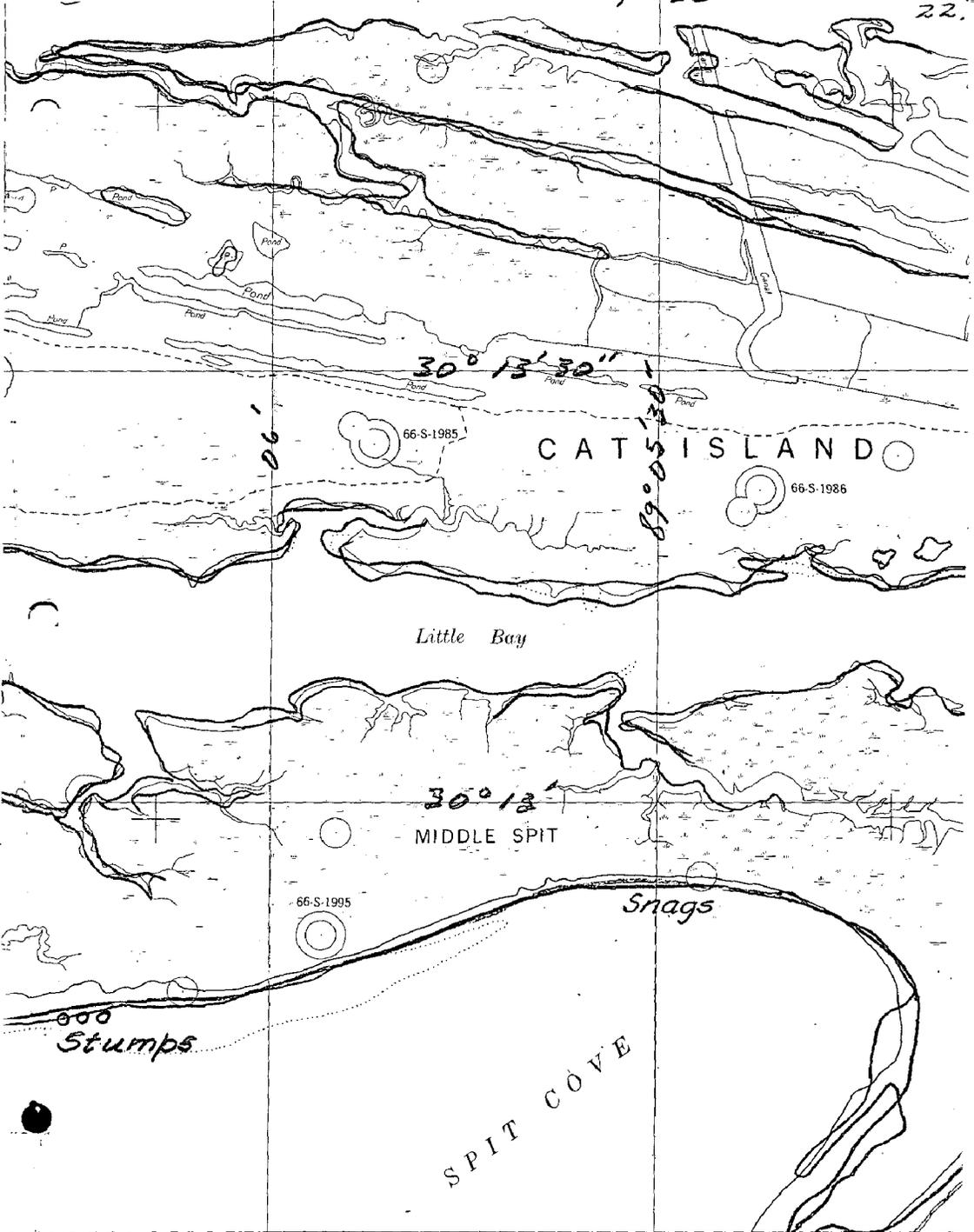
2 Piles

Piles not on T-9383 on 8765C

30° 14'

FOLD

22.



North Point

LIMITS OF ADEQUATE PHOTO COVERAGE

TOOT 1934

14'30"

Great Sand Hill

66-S-2011

04'30"

Little Bend

66-S-2010

30°14'

89°04'

North Bayou



66-S-2009

30° 13' 30"

BRUSH 2 1966

66-S-1987

66-S-1988

66 S-2008

Pond

04' 30"

89° 04'

30° 13'

66-S-2007

05'

04' 30"

x = 425,000 FT.

04'

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

LEGEND

Marsh

Sand

Sand dunes

Woodland

Road (dirt)

△ Recoverable  
 ..... Approximate  
 Open areas  
 The light sh  
 approximate  
 The heavy sl  
 Compiled by  
 Date of Phot  
 Date of Field  
 Date of Field  
 Date of Fina  
 Date of Fina

# NOE MANUSCRIPT

based on field identified control and field inspection data. It is section after final office review.