

13033

13033

Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
<i>Type of Survey</i> Shoreline (Photogrammetric)	
<i>Field No.</i>	<i>Office No.</i> T-13033
LOCALITY	
<i>State</i> Mississippi	
<i>General locality</i> Mississippi Sound	
<i>Locality</i> Ship Island (North West Bluff)	
<u>19 66-67</u>	
CHIEF OF PARTY	
<i>J. Bull, Director, Atlantic Marine Center</i>	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

T - 13033

PROJECT NO. (II): PH-6625		
FIELD OFFICE (III):	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>" SUPPL. 1: March 11, 1966</i> <i>April 27, 1966 (Office)</i> <i>FIELD-PHOTO HYDRO: Sept. 27, 1967</i> <i>Aerotriangulation: 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: 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): GULL 1966 ✓		
LAT.:	LONG.:	<input type="checkbox"/> ADJUSTED <input checked="" type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): Y = 200,634.63 ft. ✓ X = 472,101.32 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): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of Photography 27 Jan. 1966		
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree		DATE 5/3/66
PROJECTION AND GRIDS CHECKED BY (IV): R. Glaser		DATE 5/5/66
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 April 1966 no date
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): J. S. Place		DATE August 1966
SCRIBING BY (III): W. F. Stevens		DATE February 1967
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):	R. E. Smith (F. Edit Application) " " (Smooth Manuscript)	DATE 1/19/68 4/9/68 August 1966
REMARKS: Field Edit by W. R. Cameron in Nov. 1967		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"S" camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	*STAGE OF TIDE
66-S-2022-2026	27 Jan. 1966	10:57	1:10,000	0.0 ft. <i>M.L.W.</i>
66-S-2037-2039	27 Jan. 1966	11:03	1:10,000	0.0 ft. <i>"</i>

* Predicted TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Pensacola, Florida			1.3
COORDINATE STATION: Ship Island Pass			1.7
SUBORDINATE STATION:			

Atlantic Marine Center
WASHINGTON OFFICE REVIEW BY (IV):

M. M. Slawney

DATE:
Nov. 1968

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	<i>3</i>	RECOVERED:	<i>3</i>	IDENTIFIED:	<i>3</i>
NUMBER OF BM(S) SEARCHED FOR (II):	<i>-</i>	RECOVERED:	<i>-</i>	IDENTIFIED:	<i>-</i>

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

-

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

-

REMARKS:

COMPILATION RECORD

COMPLETION DATE

REMARKS

Compilation complete subject to Field Edit	August 1966	Superseded
Field Edit applied Compilation complete	January 1968	<i>Superseded</i>
<i>Some revisions during final review Nov. 1968</i>		

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-13033

Shoreline manuscript T-13033 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-13033 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 approximately 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 in Nov. 1967. 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.

Final review was done at the Atlantic Marine Center during November 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-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

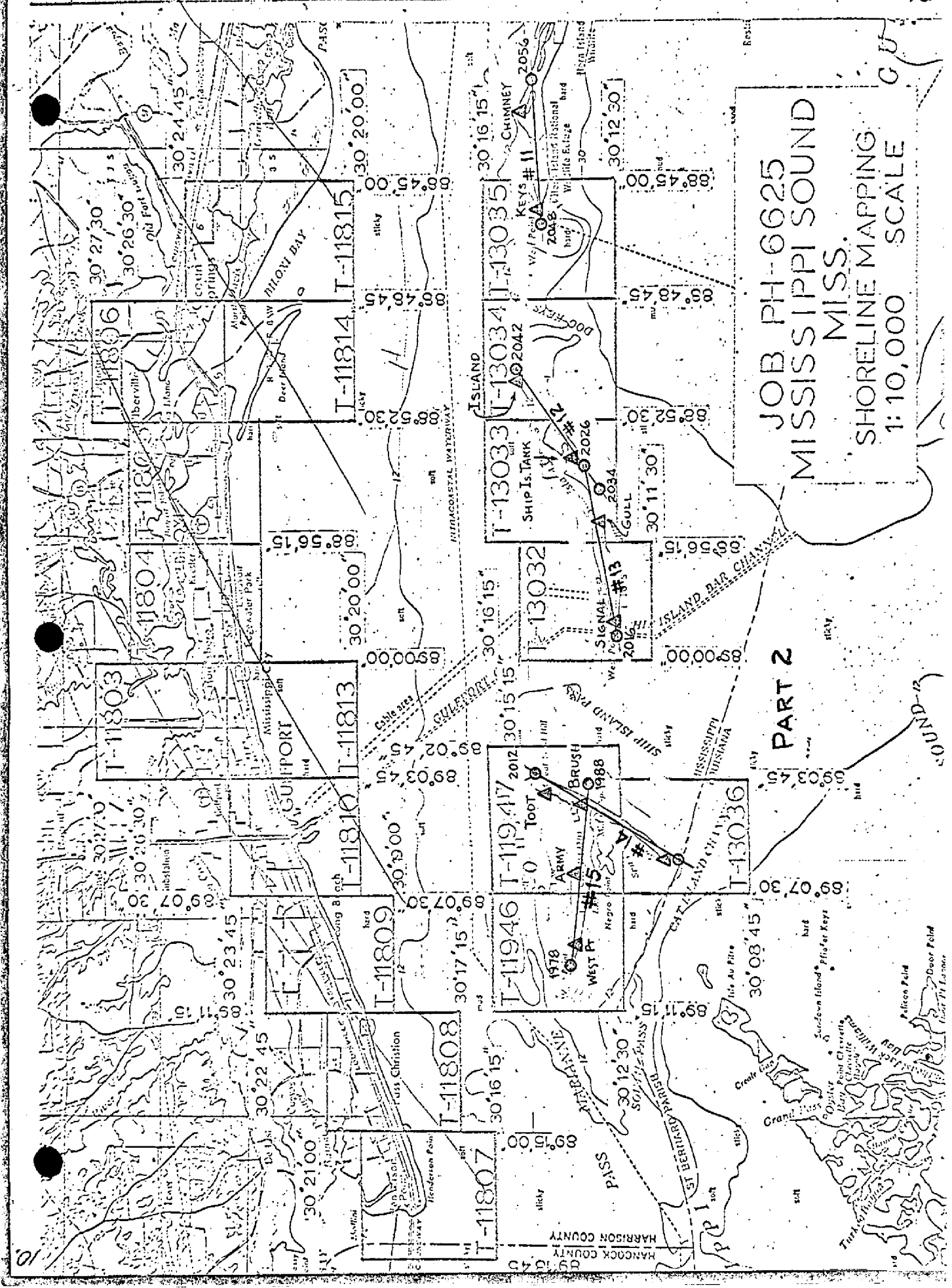
Photography was adequate as to coverage, quality and definition.

Submitted by:

Paul Hawkins
Paul Hawkins

Approved by:

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



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

PART 2

SOUND-12

MAP T. 13033

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)	
SHIP ISLAND TANK 2, 1955	P.C.	N.A.	204, 460.95 ✓	4,460.95 (539.05)	SEE				NONE
	P.68	1927	480, 418.53 ✓	418.53 (4,581.47)					
GULL, 1966	CONTROL RECORD (BRIDGE)	"	200, 634.63 ✓	634.63 (4,365.37) ✓					
			472, 101.32 ✓	2101.32 (2898.68)					
SHIP ISLAND TANK, 3, 1966	"	"	204, 460.85	4,460.85 (539.15)					
			480, 418.27	418.27 (4,581.73)					

COMPILATION REPORT
T-13033



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, 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

Junctions have been made with T-13032 to the west, and T-13034 to the east. Mississippi Sound is to the north and the Gulf of Mexico is to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. Quadrangle SHIP ISLAND, MISS., scale 1:24,000, dated 1950.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart No. 1267 scale 1:80,000, 11th edition, dated January 31, 1966.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

J. S. Place
J. S. Place
Cartographer

Approved & forwarded:

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

49. NOTES FOR THE HYDROGRAPHER

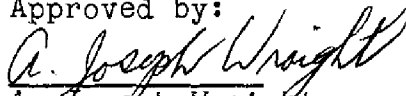
None.

May 22, 1968

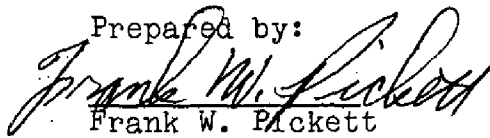
GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6625 (Mississippi Sound, Miss.)
T-13033

Mississippi Sound
Northwest Bluff
Ship Island
Ship Island Channel
Ship Island Flats
The Lagoon
Walker Shoal

Approved by:


A. Joseph Wraight
Chief Geographer

Prepared by:


Frank W. Pickett
Cartographic Technician

PHOTOGRAMMETRIC OFFICE REVIEW

ATD363X T-13033

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 Bridge (WSC)		11. DETAIL POINTS XX	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE RES		13. LOW-WATER LINE RES		14. ROCKS, SHOALS, ETC. RES		15. BRIDGES XX	
16. AIDS TO NAVIGATION XX		17. LANDMARKS XX		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 XX		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 RES <i>P. E. Smith</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 <i>A. L. S.</i> <i>A. L. S.</i>				SUPERVISOR <i>Albert C. Rauck Jr.</i> <i>A. C. R.</i>			
43. REMARKS Field edit applied from cronaflex copy of manuscript & field photo no. 66-S-2038							

FIELD EDIT REPORT

SHEET T-13033

JOB PH-6625

NOVEMBER 1967

PHOTO PARTY 61

William R. Cameron

ENS - USESSA

51 Methods

All field edit was done in accordance with project instructions and photo instructions. Shoreline verification and revision was done using planetable and alidade. Changes are shown on the Field Edit Cronaflex.

An inspection of alongshore features was made and additions and corrections are shown on the Field Edit Cronaflex.

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

All corrections to be applied to the map manuscript are indexed on the Field Edit Ozalid. Certain field edit notes appear on a matte ratio print in violet ink.

52 Adequacy of Compilation

The compilation of this manuscript was adequate and complete considering there was no field inspection prior to compilation.

54 Recommendations

None.

56 Additional Information

The six piles and one dolphin near the houses on this sheet could not be found. (see chart 876SC) All objects in this area were located by strong planetable cuts.

Matte ratio print 66S2038 should be consulted for detail concerning the submerged rocks (bkwr) on this sheet.

REVIEW REPORT T-13033
SHORELINE,
NOVEMBER 1968

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid Comparison Print (pages 22 through 24), which shows the differences noted in Items 62, 64, and 65, is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Registered Survey T-9384; 1:20,000; contoured and field inspected in 1950, no field edit.

There have been extensive shoreline changes as well as some offshore changes since the 1950 survey. These are noted in blue on the Comparison Print.

(a) T-9384 showed a half mile break in Ship Island from longitude 88° 54.5' to 88° 55.1', that is now closed (pages 22-23). It is noted that this closing was verified by the field editor, using a planetable, and that some of it appears to have taken place since the Jan. 1966 photographs were taken.

(b) Many more shoreline changes are evident, with the most serious at 33° 14.3', 88° 52.7' (page 24), where the shoreline has receded about 130 meters. It is noted that the dune in that area on T-9384 had a height of 9 ft.

(c) The pier near 30° 13.85', 88° 53.88' (page 23) as T-9384 is now in ruins. Careful examination of the photographs fails to show any evidence of piles or pier ruins extending

beyond what is shown on T-13033, which shows the pier ruins ending about 120 meters short of the pier end on T-9384.

(d) The Comparison Print notes several scattered piles and a short breakwater that are not on T-9384 (pages 23 and 24).

T-13033 supersedes the previous registered survey for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

SHIP ISLAND, MISS.; U.S.G.S. quadrangle; 1:24,000; Field Check 1950.

The quadrangle is a reduction of Registered Survey T-9384, and the same differences apply, see Item 62.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

BOAT SHEET H-8924 (HFP 742 20-2-66); 1:20,000; 1966.

Incomplete

BOAT SHEET H-8971 (HGP 742 20-1-68); 1:20,000; 1968.

The areas on T-13033 covered by these boat sheets is indicated on the Comparison Print, which shows the boat sheet differences with T-13033 in green.

(a) The shoreline for H-8971 was from the Incomplete Manuscript of T-13033, which has been revised by the field editor. The areas of greatest differences are between longitude 88° 53.9 and 88° 55.3 (pages 22 and 23).

(b) Boat Sheet H-8971 shows a "Sub. Pipe" near 30° 14.3', 88° 54' (page 23) that is not on T-13033. The area is outside the photographic coverage provided for this compilation.

(c) Boat Sheet H-8971 has three separate Pre Survey Items under PSI #6; two of which are yet to be investigated: item "(1)-a submerged pipe 30° 13.92', 88° 53.90'", and item

"(2)-iron pile reported $30^{\circ} 14'$, $88^{\circ} 54'$ " (page). The third item: "check pier ruins $30^{\circ} 13.84'$, $88^{\circ} 53.88'$ " (page) has a boat sheet note "Located pos. 6447-137 day-skiff 758"; this position is not available to the reviewer, and please note paragraph (c) of Item 62 in this report.

65. COMPARISON WITH NAUTICAL CHARTS:

CHART 876 SC; 1:40,000; Jan. 1968 corrected to Notice to Mariners #41 of Oct. 14, 1967.

The chart differences with T-13033 are shown on the Comparison Print in red.

(a) The 1:40,000 scale of the chart may exaggerate the shoreline differences, they are present, and in many areas up to 100 meter differences exist.

(b) The chart shows 6 piles and a dolphin near $30^{\circ} 14.5'$, $88^{\circ} 54'$ (page 23) that are not on T-13033. These actually fall outside the limits of the photographs, please see para. (b) Item 64.

(c) The chart shows a "Subm. Pile PA" at $30^{\circ} 14'$, $88^{\circ} 54'$, and a Subm. Pipe" near $30^{\circ} 13.92'$, $88^{\circ} 53.90'$ (page 23) that are not on T-13033. They are not revealed by careful examination of the photographs, and were not noted by the field editor. Please note para. (c) Item 64.

(d) The pier ruins near $30^{\circ} 13.85'$, $88^{\circ} 53.88'$ (page) extend about 120 meters further seaward on the chart than they do on T-13033. Please see para. (c) Item 62 and para. (c) Item 64.

(e) The buildings near $30^{\circ} 13.7'$, $88^{\circ} 53.8'$ (pages 23, 24) should be revised in accordance with T-13033.

(f) The chart shows a double dashed line near $30^{\circ} 13.9'$, $88^{\circ} 53.6'$ (page 24) that is not labelled; nothing is visible here on the photographs and no note of it was made by the field

editor. It is noted that Registered Survey T-9384, Item 62, showed nothing here.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with the job instructions, though compilation was by graphic methods instead of using stereo-instrument. The survey meets Bureau requirements, and the National Standards for Map Accuracy. The shoreline was verified by the field editor with a planetable, and changed where necessary.

Approved by:

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

Submitted by:

M. M. Slavney
M. M. Slavney

Approved by:

Charles Fenn
Chief, Photogrammetric Branch *AKS*

R. H. Boulter
Chief, Photogrammetry Division

Chief, Nautical Chart Division

30° 13' 30"

56'

55' 30"

66-S-2024

66-S-2023

66-S-2022

30'

GULL 1966

Floods

Pond

Ponds

Pond

56'15"

56'

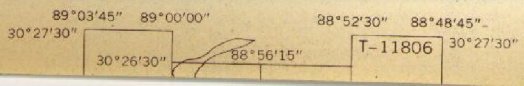
x=470,000 FT.

55'30"

30° 12' 30"

INDEX TO ADJOINING SHEETS JOB PH-6625

NOTE: Unlabeled circles are plot points; not map features



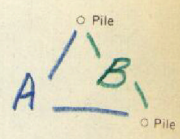
SUBM PIPE PILES

A = Not on T-9384

B = On BOAT SHEET

PSI #6(2) NO ANSWER AVAILABE 11/20/66
PSI #6(1) " " " " "
PSI #6(3) " POS. 6447 " SAYS BOAT SHEET

Dolphin



14'

SUBM PILE PA

LIMITS OF ADEQUATE PHOTO COVERAGE

SUBM. PIPE

54' 30"

Submerged breakwater

submerged breakwater

13' 30"

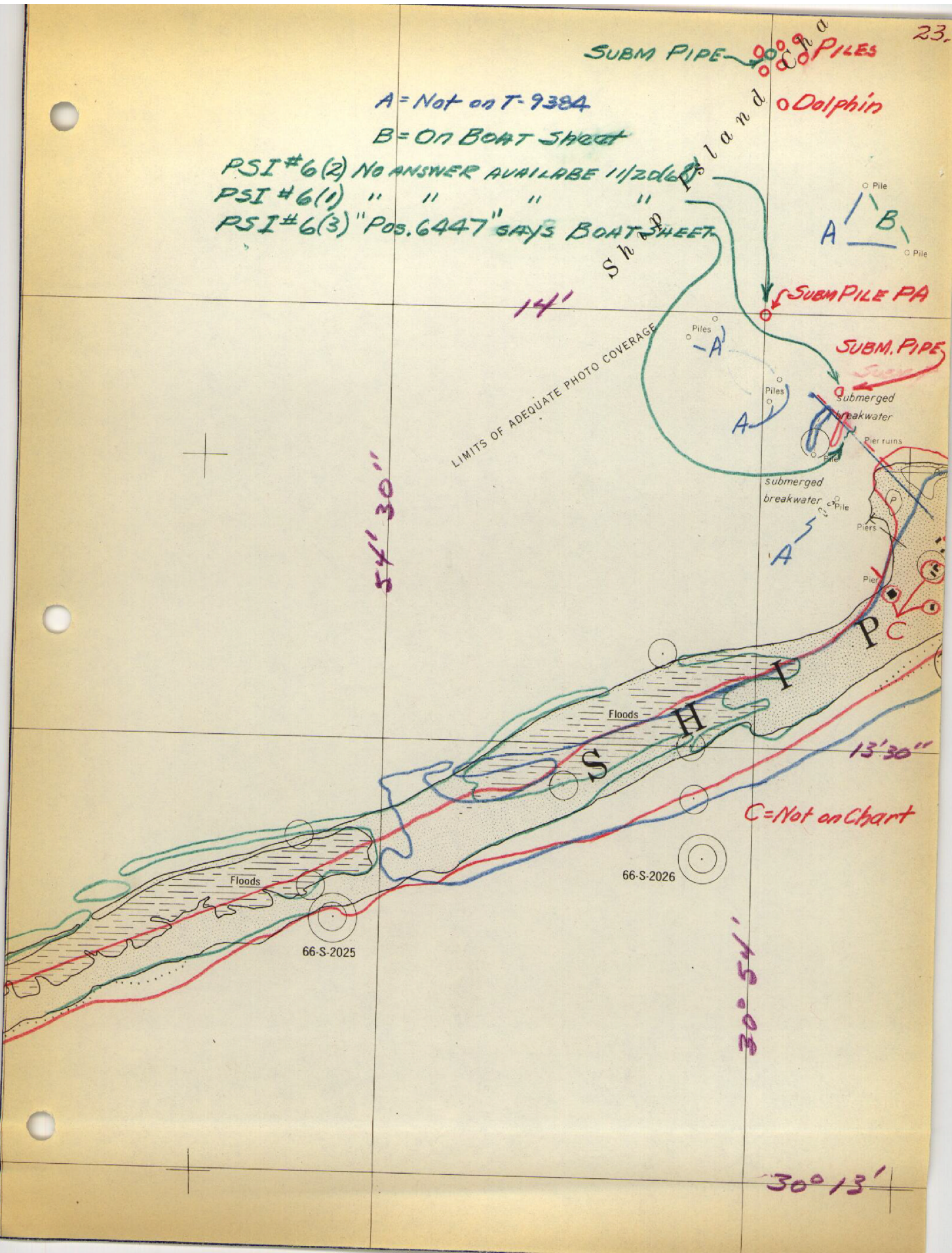
C = Not on Chart

66-S-2026

66-S-2025

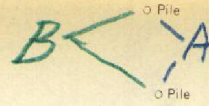
30° 54'

30° 13'



A = Not on T-9384
B = On Boat Sheet

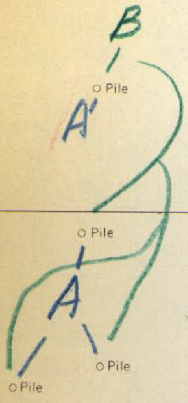
2A



H-8924

H-8971

LIMITS OF ADEQUATE PHOTO COVERAGE



52' 30"

14' 30"

Northwest Bluff

55' contour

LAND

66-S-2039

30° 14'

The Lagoon

ISLAND

66-S-2038

Pile

SHIP ISLAND TANK 2 1955

AND SHIP ISLAND TANK 3 1966

66-S-2037

H-8924

88° 53'

No soundings on H-8924 or H-8971

13' 30"

NOTES TO REVIEWER

T-13033, PH-6625

BOAT SHEETS H-8924 (HFP 745 20-2-66) and H-8971 (HFP 742 20-1-68)

Please note Items 62, 64, and 65, and the Comparison Print
(pages through) of this Descriptive Report.