T-10938

Original

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC

Field No. ..... Office No. T-10938

LOCALITY

State ALABAMA

General locality MOBILE BAY

Locality THEODORE

1957-1961

CHIEF OF PARTY

Joseph K. Wilson, Chief of Field Party
V.R.Sobieralski, Tampa District Officer

LIBRARY & ARCHIVES

DATE FEB 4 - 1966

USCOMM-DC 5087

T-10938

T-10938

FORM 181
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-10938

Project No. (II): PH-5704 Quadrangle Name (IV):

Field Office (II): Pascagoula, Mississippi Chief of Party: Joseph K. Wilson

Photogrammetric Office (III): Tampa, Florida Officer-in-Charge: V. R. Sobieralski

Instructions dated (II) (III): II 23 June 1958 (Field)
10 Feb. 1959 (Field Suppl.1) Copy filed in Division of Photogrammetry (IV)
III 7 Apr. 1959 (Office) 9 Sept. 1959 (Stereo Bridging)
17 Aug. 1959 (Office Suppl.1) 6 Oct. 1959 (Office Suppl.1)
17 Aug. 1959 (Field Suppl.2) 10 Nov. 1959 (Field and Office Suppl.3)
Location of Aids to Navigation dated 7 Oct. 1959

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000 Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None

Date received in Washington Office (IV): JUL 20 1961 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV):

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): NA 1927 Vertical Datum (III): MHW

[redacted] 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): McGowin 1935

Lat.: 30°32'46.922" (1444.9 m) Long.: 88°09'27.481" (732.5 m) Adjusted [redacted]

Plane Coordinates (IV): State: Alabama Zone: West

Y= 199, 299.24 Ft. X= 292,979.70 Ft.

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

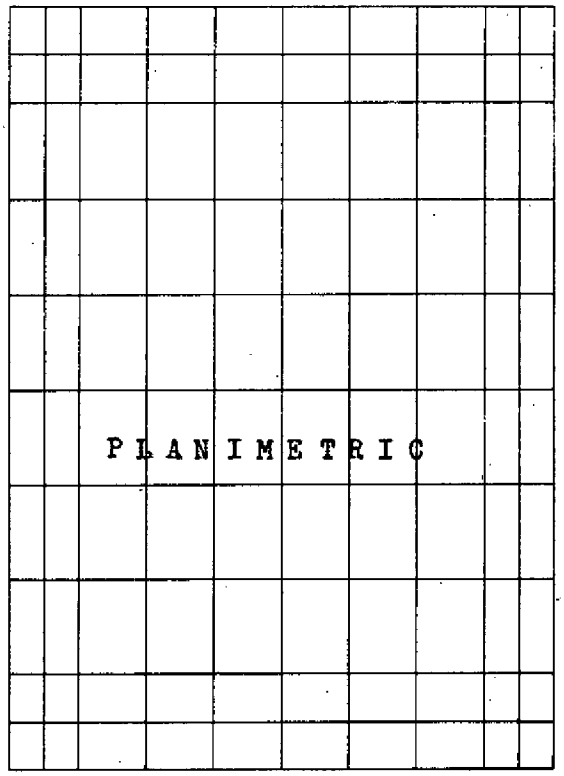
When entering names of personnel on this record give the surname and initials, not initials only.

COMM-DC-57842

FORM 181a
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD



Areas contoured by various personnel
(Show name within area)
(II) (III)

Inapplicable

FORM 181b
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

3

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): Joseph K. Wilson
William M. Reynolds
Matthew A. Stewart
Date: May 1959

Planetable contouring by (II): Inapplicable
Date:

Completion Surveys by (II): E. E. Brown
Date: March 1961

Mean High Water Location (III) (State date and method of location): Air Photo Compilation
Date of photographs: 19 Nov. 1957

Projection and Grids ruled by (IV): P.J.D. (W.O.)
Date: Sept. 1959

Projection and Grids checked by (IV): R.D.Shoup (W.O.)
Date: " "

Control plotted by (III): V. P. Cackowski
Date: " "

Control checked by (III): R. R. Wagner
Date: " "

Radial Plot [redacted]ic
[redacted] by (III): R. R. Wagner
Date: Feb. 1960

Stereoscopic Instrument compilation (III): Planimetry Inapplicable
Date:
Contours
Date:

Manuscript delineated by (III): R. Dossett
Date: Apr. 1960

Photogrammetric Office Review of compilation by (III): I. I. Saperstein
Date: April 1960

Elevations on Manuscript checked by (II) (III): Inapplicable
Date:

COMM-DC-57842

FORM 181c
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

4.

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS 9 lens

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
56783	Nov. 19 1957	14:28	1:10,000	No tide (inshore area)
56784	" "	14:29	"	
56785	" "	14:30	"	
56852	" "	15:27	"	
56853	" "	15:28	"	
56854	" "	15:29	"	

Tide (III)
No tide

Ratio of Ranges	Mean Range	Spring Range

Reference Station:
Subordinate Station: Inapplicable
Subordinate Station:

Washington Office Review by (IV): Date:

Final Drafting by (IV): V. P. Cackowski (Tampa District Office) Date: Apr. 1961
" " Reviewed by: W. H. Shearouse " " " May 1961

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 16
Shoreline (More than 200 meters to opposite shore) (III): 0
Shoreline (Less than 200 meters to opposite shore) (III): 0
Control Leveling - Miles (II): Inapplicable
Number of Triangulation Stations searched for (II): 12* Recovered: 3 Identified: 3
Number of BMs searched for (II): None Recovered: Identified:
Number of Recoverable Photo Stations established (III): 0
Number of Temporary Photo Hydro Stations established (III): 0

Remarks: * Including one station west of project limits.

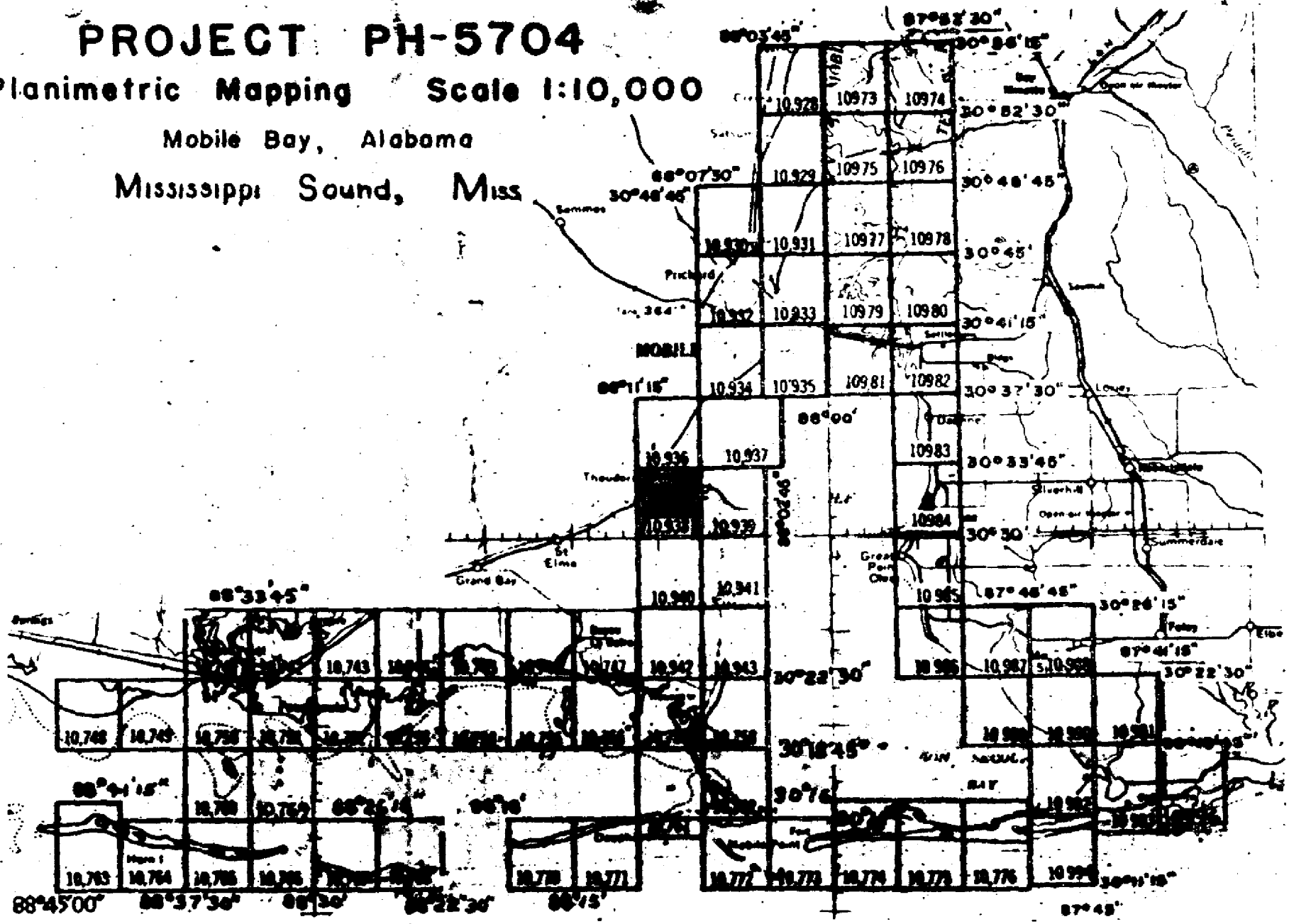
COMM-DC-57842

PROJECT PH-5704

Planimetric Mapping Scale 1:10,000

Mobile Bay, Alabama

Mississippi Sound, Miss



FIELD INSPECTION REPORT
Project Ph-5704
Map T-10938

Please refer to the Field Inspection Report for map T-10939 for all data pertaining to this map.

Submitted:

Joseph K. Wilson

Joseph K. Wilson
Chief, Photo Party 720

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE · COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT — CONTROL RECORD

MAP T- 10938 PROJECT NO. PH-5704 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
	Mobile Co.	N.A.	199,299.24 ✓	6	10746.5 ✓				VCP 24 Sept	
McGOWIN 1935	Pg 35	1927	292,979.70 ✓	8	9300.4 ✓				RPM 5/9	
	Ala. Geod. pamphlet		y = 202,224.75 ft. ✓	6	1638.2 ✓					
332-3 (AGS) 1940	page 35	"	x = 300,317.57 ft. ✓	9	1537.0 ✓				✓	
			y = 202,250.69 ft. ✓	6	1646.1 ✓					
323-1 (AGS) 1940	"	"	x = 286,606.74 ft. ✓	8	7357.9 ✓				✓	
	Ala. Geod. pamphlet		y = 199,611.02 ft. ✓	6	0841.6 ✓					
300-9 (AGS) 1940	page 31	"	x = 287,614.59 ft. ✓	8	7665.1 ✓				✓	
	A.G.P.		y = 198,740.50 ft. ✓	6	0576.2 ✓					
302-1 (AGS) 1940	page 34	"	x = 288,684.04 ft. ✓	8	7991.1 ✓				✓	
	A.G.P.		y = 202,283.81 ft. ✓	6	1656.2 ✓					
332-2 (AGS) 1940	page 35	"	x = 299,985.18 ft. ✓	8	9911.7 ✓				✓	
323-2 (AGS) 1940	"	"	202,678.19 ✓	6	1776.4 ✓				✓	
			285,092.70 ✓	8	6896.4 ✓					
300-8 (AGS) 1940	"	"	200,438.22 ✓	6	1093.7 ✓				✓	
	P931		288,082.01 ✓	8	7807.0 ✓					

1 FT. = .3048006 METER

COMPUTED BY: RES DATE 16 Sept 59 CHECKED BY: HS DATE 17 Sept 59

COMM-DC-57843

COMPILATION REPORT
T-10938

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-10928

31. DELINEATION

The graphic method was used.

The photographs were clear but of poor scale. Considerable tilt was present in all photographs, being particularly bad in photograph 56784, where it was necessary to compute the tilt and establish an isocenter,

The field inspection appeared satisfactory.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None. See Item 41.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

The drainage was delineated by the field inspector, which proved to be "sketched", in the dense swamps. In a number of places throughout the project this sketching was found to be in error, which cast doubt on all such streams. Therefore, only drainage positively identified by stereoscopic examination has been shown on the map manuscript. Please refer to a letter dated 10 October 1960 on DRAINAGE, PH-5704, to Chief, Photogrammetry Division from Tampa District Officer, a copy of which is enclosed herewith.

35. SHORELINE AND ALONGSHORE DETAILS

There are only single line streams within the limits of this manuscript.

Tampa District Office
P. O. Box 190 Tampa 1 Florida

10 October 1960

To: Chief, Photogrammetry Division
Coast and Geodetic Survey
Washington, D. C.

Subject: Drainage - PH-5704 MOBILE BAY

The greater portion of the drainage in subject project consists of narrow fingers of swamp (500-1500 Ft. wide) with a perennial stream meandering through the swamp. The field inspector has complied with project instructions by delineating this drainage on the field photographs. Due to the density of the swamp trees, it is impossible to see the stream beds except for occasional short stretches.

We have carefully examined all the streams under the stereoscope on various office photographs. Comparison with the U. S. Geological Survey quadrangles indicates their drainage delineation to be more accurate than our field party's delineation. (Reference copy of memorandum to Wilson attached). One sample area has been returned to the field party and our conclusions were verified for that one particular stream.

We do not believe the streams warrant the expense of the field party traversing them for accurate location, neither do we believe that they should be mapped unless their position is fairly accurate. It appears that this drainage has been delineated on the field photographs without an adequate check with U.S.G.S. quadrangles and/or actual field investigation even though considerable time was probably spent on this phase of the field work. Considerable time has also been spent studying these discrepancies in the office.

It is suggested that the field parties be informed of a definite policy on how much time should be spent on accurately locating drainage, omitting it entirely, or using P.D.U.

On this project, since the narrow fingers of swamp indicate the drainage pattern fairly well, and the streams can be identified only in short stretches, we are omitting them as a whole.

Survey T-10938 is being scribed and will be forwarded in approximately four (4) weeks. The foregoing discrepancies will be noted on various field photographs for your attention.

It is thought that bringing this matter to your attention might eliminate similar difficulties in future projects.

(signed) William R. Kachel
LCDR, C&GS
Tampa District Officer

WAR/o

36. OFFSHORE DETAILS

Inapplicable.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

A satisfactory junction has been secured with T-10936 on the north, T-10940 on the south and T-10939 on the east. There is no contemporary survey on the west. However, the manuscript is the southeast quarter of the THEODORE quadrangle (see Item 46) and the junction appears satisfactory.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41 BOUNDARIES

The boundary of Theodore Army Terminal has been delineated as shown on field photographs 56783 and 56852. The map of this reservation mentioned in Item 10 was not received with the project data. A copy was obtained later which proved the delineation to be substantialy correct.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with U. S. Geological Survey quadrangle "THEODORE, ALA.", scale 1:24,000, compiled from aerial photographs, topography by plane-table surveys in 1939. Revised to 1953. No outstanding discrepancies were noted.

Comparison has been made with planimetric map T-5532 which covers part of this manuscript, scale 1:20,000 dated 1934. Many changes have occured in the part covered.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with Nautical Chart No. 1266, scale 1:80,000, 15th edition of Nov. 16, 1959, revised to 19 March 1960. No discrepancy was noted in comparable details.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Rudolph Dossett
Carto-photo Aid

Approved and Forwarded:
V. Ralph Sobieralski
V. Ralph Sobieralski
Tampa District Officer

48. GEOGRAPHIC NAME LIST

Geographic names were taken from the U.S.G.S. THEODORE, ALA. quadrangle map referred to in Item 46.

ALABAMA

DYKES CREEK

FOWL RIVER

HALLS MILL ROAD
HOLLINGERS ISLAND

ISLAND ROAD

LAURENDINE
LAURENDINE ROAD
LOUISVILLE AND NASHVILLE RR

MAGNOLIA CHURCH AND CEMETERY
MIDDLE FORK DEER RIVER
MOBILE COUNTY
MT. AIRY CHURCH
MUDDY CREEK

OLD SPANISH TRAIL

RABBIT CREEK

STATE 59
STATE 12

THEODORE
THEODORE ARMY TERMINAL

U S 90

WHISKEY BRANCH

All names checked
and approved
12-10-65
A. J. Wright

49. NOTES FOR THE HYDROGRAPHER

None.

Form T-2

50

PHOTOGRAMMETRIC OFFICE REVIEW OF ADVANCE MANUSCRIPT

T-10938

1. Projection and grids WHS 2. Title WHS 3. Manuscript numbers WHS 4. Manuscript size WHS

4a Classification label unclassified

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy WHS 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 MMS 11. Detail points IIS

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline XX 13. Low-water line XX 14. Rocks, shoals, etc. XX 15. Bridges XX 16. Aids to navigation XX 17. Landmarks XX 18. Other alongshore physical features XX 19. Other alongshore cultural features XX

PHYSICAL FEATURES

20. Water features WHS 21. Natural ground cover WHS 22. Planetable contours XX 23. Stereoscopic instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical features WHS

CULTURAL FEATURES

27. Roads WHS 28. Buildings WHS 29. Railroads WHS 30. Other cultural features WHS

BOUNDARIES

31. Boundary lines WHS 32. Public land lines XX

MISCELLANEOUS

33. Geographic names WHS 34. Junctions WHS 35. Legibility of the manuscript WHS 36. Discrepancy overlay XX 37. Descriptive Report WHS 38. Field inspection photographs WHS 39. Forms WHS

40. William A. Rosure for M.M. Slavney

William H. Shearouse Reviewer

Supervisor, Review Section or Unit M.M. Slavney

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.

Rudyard Dorsett
Compiler

M.M. Slavney
Supervisor

43. Remarks:

M-2623-12

Field Edit Report
(Shoreline)
Maps T-10938, T-10939, T-10940, & T-10941
Project PH-5704

51. Methods

The shoreline was inspected by truck, skiff, and walking along the beach. The distance to the MHWL was spot checked at intervals from points of known location and found to be correct and adequate, except where noted on enclosed ozalids copies of the map manuscripts.

Ozalid copies of T-10939 and T-10941 are enclosed with this report. Corrections and additions are shown in red ink and deletions in green on the ozalid prints.

52. Adequacy of Compilation

The map compilation appears complete and adequate.

53. Map Accuracy

The shoreline of the maps is accurate, except for the changes since photography, as shown on the field edit ozalids.

54. Recommendations

There are no recommendations.

55. Examination of Proof Copy

No one was contacted to examine a proof copy of the map.

Submitted: 21 March 1961

Ernest E. Brown, ENS, C&GS
Photo-Hydro Support Unit 721

Review Report
Planimetric Maps
T-19036 thru T-19043
December 1965

61. General Statement

Area - The project encompasses Mobile Bay and its approaches.

Purpose - The object of this project is to provide base maps for nautical charting and shoreline and horizontal control data for hydrographic surveys.

62. Comparison with Registered Topographic Surveys

T-5712	1:40,000	1918
T-5715	1:40,000	1918
T-5716	1:10,000	1919
T-5552	1:20,000	1934
T-5553	1:20,000	1934

There are cultural and shoreline changes due to the differences in time interval. T-19036 thru T-19043 are to supersede the above surveys of common area.

63. Comparison with Maps of Other Agencies

Theodore	1:24,000	1953
Hollingers	1:24,000	1953
Cuden	1:24,000	1955
Bellefontaine	1:24,000	1956

See Item 43.

64. Comparison with Contemporary Hydrographic Surveys

H-8573	1:10,000	1961
H-8575	1:10,000	1961
H-8581	1:10,000	1961
H-8587	1:10,000	1961

Shoreline and control of subject surveys was furnished prior to the hydrographic surveys and apparently no differences of importance exist.

65. Comparison with Nautical Charts

1201	1:80,000	1965

Because of the scale difference only a visual comparison was made. No notable differences exist.

6). Adequacy of Results and Future Surveys

These maps comply with the National Map Accuracy Standards and meet Bureau requirements.

Reviewed by:

L.C. Lende

Approved by:

Chief, Photogrammetric Branch

Chief, Nautical Chart Division

L. J. Woodcock

Chief, Photogrammetry Division