ORIGINAL

T-10941

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC

Field No. ..... Office No. T-10941

LOCALITY

State ALABAMA

General locality MOBILE BAY

Locality MON LOUIS

1957 – 1961

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE FEB 4 - 1966

USCOMM-DC 5087

T-10941

T-10941

FORM 181
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-10941

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. Ralph Sobieralski

Instructions dated (II) ~~(III)~~: 23 June 1958 (Field)
10 Feb. 1959 (Field Suppl. 1)
Copy filed in Division of Photogrammetry (IV)
(III) 7 Apr. 1959 (Office) 9 Sep. 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): 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): FOWL 1935

Lat.: 30°28'18.459" (568.4m.) Long.: 88°05'50.033" (1334.6m.) Adjusted
~~Unadjusted~~

Plane Coordinates (IV): State: ALABAMA Zone: WEST

Y= 172,071.98 Ft. X= 311,850.89 Ft.

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

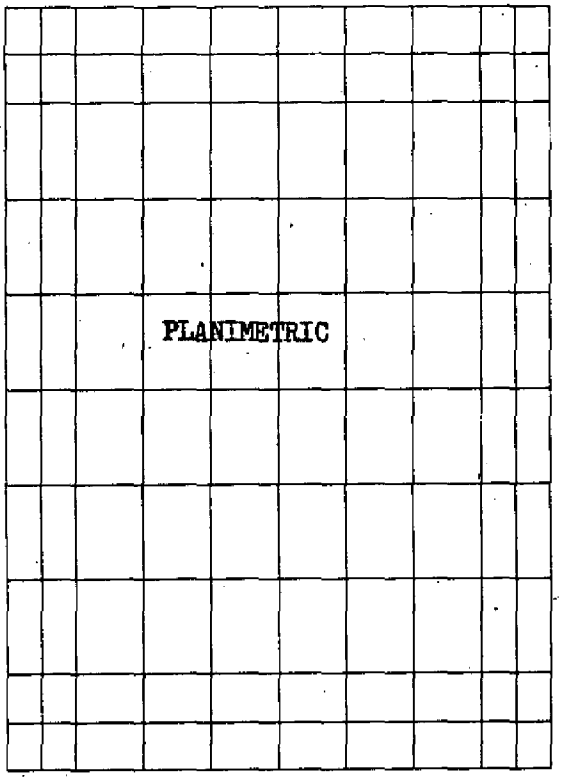
When entering names of personnel on this record give the surname and initials, not initials only.

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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): Wm. M. Reynolds
M. A. Stewart — Date: Apr. 1959

Planetable contouring by (II): Inapplicable — Date:

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

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

Projection and Grids ruled by (IV): P. J. Dempsey (W.O.) — Date: Aug. 1959

Projection and Grids checked by (IV): R. D. Shoup (W.O.) — Date: Aug. 1959

Control plotted by (III): V. P. Cackowski — Date: Sep. 1959

Control checked by (III): R. R. Wagner — Date: Sep. 1959

Radial Plot or ~~Stereoscopic~~ Control extension by (III): R. R. Wagner — Date: Jan. 1960

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

Manuscript delineated by (III): W. W. Dawsey — Date: Mar. 1960

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

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

FORM 181c
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

4.

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
56800	19 Nov. 1957	1441	1:10,000	+0.7
56801	"	1441	"	"
56802	"	1442	"	"

Predicted Tide (III)

Diurnal

	Ratio of Ranges	Mean Range	Spring Range
			1.5
HW 0.1 LW 0.0			1.4

Reference Station: MOBILE, MOBILE RIVER
Subordinate Station: GREAT POINT CLEAR, MOBILE BAY
Subordinate Station:

Washington Office Review by (IV): Date:

Final Drafting by (IV): R. Dossett (Tampa District Office) Date: May 1961
" " reviewed by: R. Wagner " May 1961
Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 6
Shoreline (Mean high water shoreline) (III): 10 lin. mi.
Shoreline (less than 200 meters apart on opposite shore) (III):
Control Leveling - Miles (II): Inapplicable
Number of Triangulation Stations searched for (II): 6 Recovered: 3 Identified: 2
Number of BMs searched for (II): None Recovered: Identified:
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

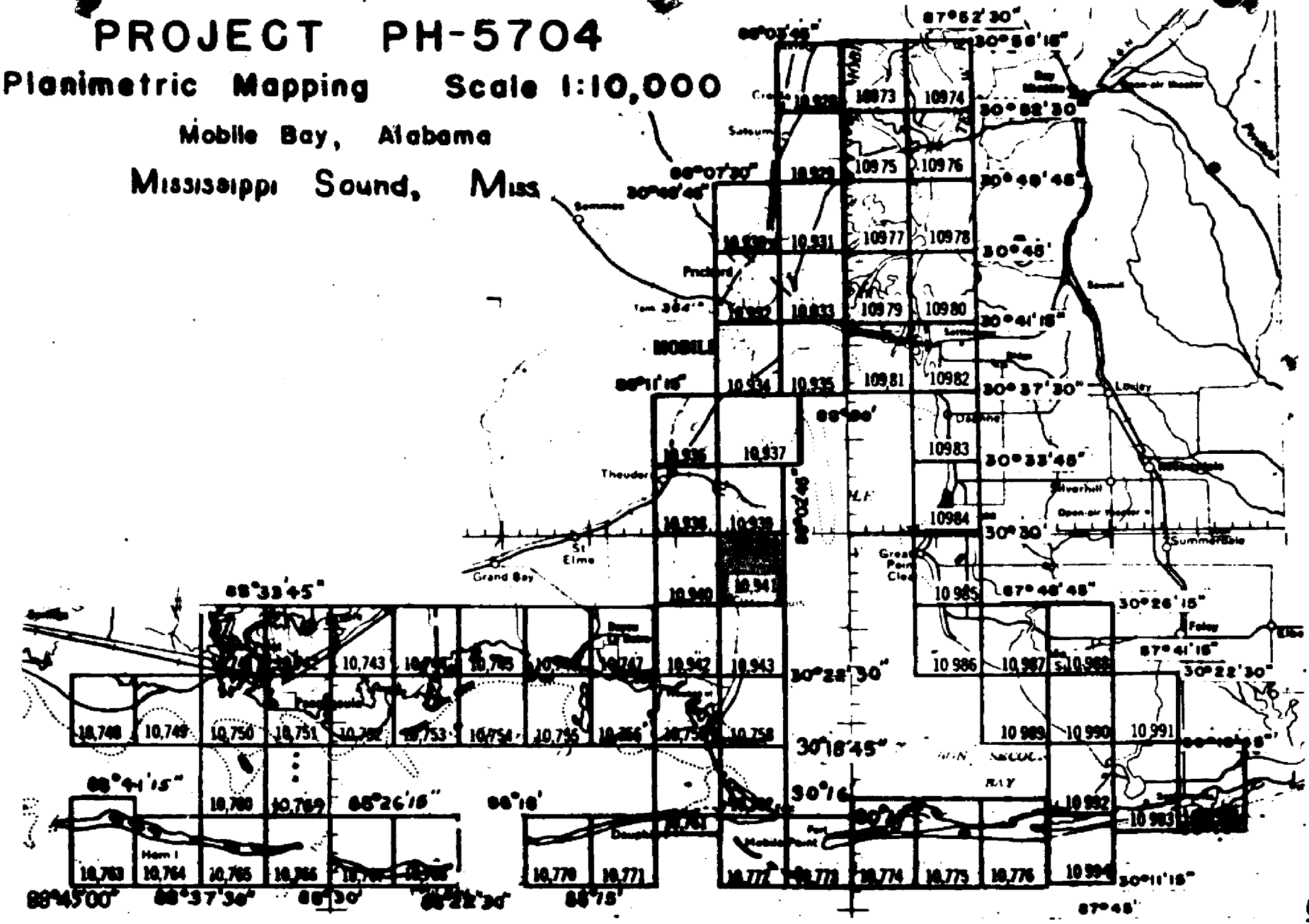
COMM-DC-57842

PROJECT PH-5704

Planimetric Mapping Scale 1:10,000

Mobile Bay, Alabama

Mississippi Sound, Miss.



FIELD INSPECTION REPORT
Project ph-5704
Map T-10941

Please refer to the Field Inspection Report for map T-10943 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- 10941 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 LINI IN METERS FORWARD	(BACK)
308-3 (AGS), 1940	AGP page 32	N.A. 1927	y = 160,245.06 ft x = 307,644.88 ft	48842.8 93770.3					VPC 23 Sept RAW. 59	
308-5 (AGS) 1940	"	"	y = 172,217.89 ft. x = 306,634.63 ft.	52492.1 93462.4						
334-4 (AGS) 1940	AGP page 48	"	y = 169,529.73 ft. x = 304,737.28 ft.	51692.8 92884.1						
98 (USE) (AGS), 1940	AGP. page 32	"	y = 177,624.11 ft x = 307,091.30 ft	54139.9 93601.6						
FOWL, 1935	AGP. page 32	"	y = 172,071.98 ft x = 311,850.89 ft	52447.6 95052.3						
310-1 (AGS) 1940	"	"	182,834.60 307,579.06	5 | 5728.1 9 | 3756.4		Not plotted				

1 FT. = .3048006 METER

COMPUTED BY: RES DATE 18 Sept 59 CHECKED BY: HS DATE 21 Sept 59

COMM-DC-57843

COMPILATION REPORT T-10941

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-10928.

31. DELINEATION

The graphic method was used. The field inspection appears to be adequate. Single-lens Infragon "L" series photography was furnished and was used to assist in interpreting shoreline and vegetation features that were not clear on the nine-lens photographs.

32. CONTROL

See photogrammetric plot report.

33. SUPPLEMENTAL DATA

None was used.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

The drainage was delineated by the field inspector, which proved to be "sketched" in the 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 the 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 Office, a copy of which is enclosed herewith.

35. SHORELINE AND ALONGSHORE DETAILS

The piling, platforms, pavillions and similar objects were shown as indicated by the field inspector.

36. OFFSHORE DETAILS

None.

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

37. LANDMARKS AND AIDS

One nonfloating aid to navigation was located and submitted under date of 18 March 1960. There are no landmarks.

38. CONTROL FOR FUTURE SURVEYS

None established.

39. JUNCTIONS

Junctions were made with T-10939 to the north, T-10943 to the south, T-10940 to the west - no contemporary survey to the east.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with C&GS Air Photo Compilation T-5532 and T-5533, scale 1:20,000, dated 1934. Comparison was made with C. G. BELLEFONTAINE, ALABAMA quadrangle, scale 1:24,000, dated 1956. Only differences due to passage of time were noted.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with C&GS Chart No. 1266, scale 1:80,000, dated January 1961 and corrected to February 1961. The same differences exist that were mentioned under item 46.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

W. W. Dawsey
Cartographer (Photo)

APPROVED AND FORWARDED

V. Ralph Sobieralski
Tampa District Officer

48. GEOGRAPHIC NAME LIST

Names were taken from Geological Survey quadrangle BELLEFONTAINE, ALABAMA dated 1956.

ALABAMA

BAYLEYS CORNER
BELLEFONTAINE

CEDAR POINT ROAD

FOWL RIVER
FOWL RIVER POINT

GOAT ISLAND

MOBILE BAY
MOBILE COUNTY
MON LOUIS
MON LOUIS ISLAND

SMITHPORT
STATE 163
ST. ROSE OF LIMA CHURCH *
SUNNY COVE

* From field inspection photograph 6d a/w

Names approved
12-10-65
A. J. Wright

49. NOTES FOR THE HYDROGRAPHER

None.

FORM 182
(6-12-56)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

50

PHOTOGRAMMETRIC OFFICE REVIEW OF ADVANCE MANUSCRIPT

T- 10941

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

4a. Classification label Unclassified

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy RRW 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 RRW 13. Low-water line XX 14. Rocks, shoals, etc. RRW 15. Bridges RRW 16. Aids to navigation RRW 17. Landmarks XX 18. Other alongshore physical features RRW 19. Other alongshore cultural features RRW

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads RRW 28. Buildings RRW 29. Railroads XX 30. Other cultural features RRW

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

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

40. William A. Rasure — Reviewer
for R. R. Wagner

M. M. Slavney — 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.

William A. Rasure
for R. Dossett — Compiler

M. M. Slavney — Supervisor

43. Remarks:

COMM-DC 34529

Field Edit Report
(Shoreline)
Mapt 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

T-10941

NOTES TO THE WASHINGTON OFFICE REVIEWER

A large number of buildings and short roads noted by the field inspector were omitted. It is our belief that this is in accordance with current instructions. (Please refer to Photogrammetry Instructions No. 54 regarding buildings and the letter of 10 June 1960 from the Chief, Photogrammetry Division regarding short roads) The field editor was requested to make further investigation and has verified our interpretation.

From examination of the location of the mean high-water line on field photographs 55801 and 55802 in the vicinity of latitude 30 29', there was some doubt as to its accuracy. However, no change was made by the field editor and the line has been shown as indicated by the field inspector.

Tampa

TIDE COMPUTATION

PROJECT NO. Ph- 5704 T- 10941

Time and date of exposure: 19 NOV. 1957 14:41
Reference station: MOBILE, MOBILE RIVER
DIURNAL ~~Mean range~~ 1.5

Date of field inspection: APRIL 1959
Subordinate station: GREAT POINT CLEAR, MOBILE BAY
Ratio of ranges: H.W. = -0.1 L.W. = 0.0

	Time h.	Time m.
High tide	21	03
Low tide	7	33
Duration of rise or fall	13	30

	Height feet	Height x Ratio of ranges
High tide	1.4	
Low tide	-0.2	
Range of tide	1.6	

	Time h.	Time m.
High tide at Ref. Sta.	22	03
Time difference	-1	00
Corrected time at Subordinate station	21	03

	Time h.	Time m.
Low tide at Ref. Sta.	8	33
Time difference	-1	00
Corrected time at Subordinate station	7	33

	h. m.		feet		feet	Photo. No.
Time H. T. ~~or L. T.~~ Required time Interval	21 03 14 41 6 22	Ht. H. T. ~~or L. T.~~ Tabular correction Stage of tide above MLW	1.4 0.7 0.7	Feature bares Stage of tide above MLW Feature above MLW		56800 56801 56802
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		

M-2617-12

Computed by WWD　　Checked by HS

Review Report
Planimetric Maps
T-10936 thru T-10943
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-3712	1:40,000	1918
T-3713	1:40,000	1918
T-3716	1:10,000	1919
T-5532	1:20,000	1934
T-5533	1:20,000	1934

There are cultural and shoreline changes due to the differences in time interval. T-10936 thru T-10943 are to supersede the above surveys of common area.

63. Comparison with Maps of Other Agencies

Theodore	1:24,000	1953
Bellingers	1:24,000	1953
Coden	1:24,000	1956
Bellefontaine	1:24,000	1956

See Item 46.

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

1256	1:80,000	1965

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

66. Adequacy of Results and Future Surveys

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

Reviewed by:

L.C. Lande

Approved by:

Chief, Photogrammetric Branch

Chief, Nautical Chart Division

L. A. Woodcock

Chief, Photogrammetry Division