**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>PLANIMETRIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>Office No. T-10941</td>
</tr>
<tr>
<td>LOCALITY</td>
<td></td>
</tr>
<tr>
<td>State</td>
<td>ALABAMA</td>
</tr>
<tr>
<td>General locality</td>
<td>MOBILE BAY</td>
</tr>
<tr>
<td>Locality</td>
<td>MON LOUIS</td>
</tr>
<tr>
<td>1957 - 1961</td>
<td></td>
</tr>
<tr>
<td>CHIEF OF PARTY</td>
<td>Joseph K. Wilson, Chief of Field Party</td>
</tr>
<tr>
<td></td>
<td>W. Ralph Sobieralski, Tampa District Officer</td>
</tr>
</tbody>
</table>

**LIBRARY & ARCHIVES**

| DATE               | FEB 4 - 1965         |
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) 23 June 1958 (Field) Copy filed in Division of:
10 Feb. 1959 (Field Suppl. 1) 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): Data reported to Nautical Chart Branch (IV):

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

Publication Scale (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III): MHW
- Mean Higher Water except as follows:
Elevations shown as (H) refer to mean high water
Elevations shown as (h) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): FOWL 1935
Lat.: 30°28'18.459" (568.4 km.) Long.: 88°05'50.033" (1334.6 m.) 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.
<table>
<thead>
<tr>
<th>Areas contoured by various personnel</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Show name within area)</td>
</tr>
<tr>
<td>(II) (III)</td>
</tr>
</tbody>
</table>

Inapplicable
DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): Wm. M. Reynolds
M. A. Stewart

Date: Apr. 1959

Planetary contouring by (II): Inapplicable

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 of Stereoscopic

Reduction by (III): R. R. Wagner

Date: Jan. 1960

Planimetry

Stereoscopic Instrument compilation (III): Inapplicable
Contours

Date:

Manuscript delineated by (III): W. W. Dawsey

Date: Mar. 1960

Photogrammetric Office Review (by (III): I. I. Saperstein

Date: Mar. 1960

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

Date:
DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III):

PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>56800</td>
<td>19 Nov. 1957</td>
<td>14:1</td>
<td>1:10,000</td>
<td>+0.7</td>
</tr>
<tr>
<td>56801</td>
<td>n</td>
<td>14:1</td>
<td>n</td>
<td>n</td>
</tr>
<tr>
<td>56802</td>
<td>n</td>
<td>14:42</td>
<td>n</td>
<td>n</td>
</tr>
</tbody>
</table>

Predicted Tide (III)

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

Washington Office Review by (IV):

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

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 6
Shorelines (From Surveyed Hydro Stations) (III): 10 lin. mi.

Control Leveling - Miles (II): Inapplicable

Number of Triangulation Stations searched for (II): 6
Recovered: 3
Identified: 2

Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

Date: May 1961
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
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>LONGITUDE OR x-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>308-3 (AGS) 1940</td>
<td>AGP page 32</td>
<td>N.A. 1927</td>
<td>y = 160,245.06 ft</td>
<td>x = 307,644.88 ft</td>
<td>48842.8</td>
<td>48842.8</td>
<td>92440.3</td>
<td>92440.3</td>
</tr>
<tr>
<td>308-5 (AGS) 1940</td>
<td>AGP</td>
<td>N.A. 1927</td>
<td>y = 173,317.87 ft</td>
<td>x = 304,634.63 ft</td>
<td>52452.1</td>
<td>52452.1</td>
<td>98462.4</td>
<td>98462.4</td>
</tr>
<tr>
<td>304-4 (AGS) 1940</td>
<td>AGP page 48</td>
<td>N.A. 1927</td>
<td>y = 169,229.23 ft</td>
<td>x = 304,277.38 ft</td>
<td>92284.1</td>
<td>92284.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>98 (USE) (AGS) 1940</td>
<td>AGP page 32</td>
<td>N.A. 1927</td>
<td>y = 177,624.11 ft</td>
<td>x = 307,091.30 ft</td>
<td>93601.6</td>
<td>93601.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FOWK, 1935</td>
<td>AGP</td>
<td>N.A. 1927</td>
<td>y = 172,091.98 ft</td>
<td>x = 311,850.85 ft</td>
<td>52492.6</td>
<td>52492.6</td>
<td>98052.3</td>
<td>98052.3</td>
</tr>
<tr>
<td>310-1 (AGS) 1940</td>
<td>AGP</td>
<td>N.A. 1927</td>
<td>182.834.60</td>
<td>307.579.06</td>
<td>5728.1</td>
<td>5728.1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 FT = 0.0304806 METER

COMPUTED BY: BES DATE: 18 Sept 1959
CHECKED BY: 115 DATE: 21 Sept 1959
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 - FH-570h 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 F.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
ICER, CGS
Tampa District Officer

WR/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.

[Signature]
W. W. Dawsey
Cartographer (Photo)

APPROVED ANDFORWARDED

J. Ralph Sobieralski
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

Names approved
12-10-65

A. J. Wright
None.
PHOTOGRAMMETRIC OFFICE REVIEW OF ADVANCE MANUSCRIPT
T-10941


CONTROL STATIONS
RRW
5. Horizontal control stations of third-order or higher accuracy XX  6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) XX  7. Photo hydro stations XX  8. Bench marks XX

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
XX
31. Boundary lines XX  32. Public land lines

MISCELLANEOUS

40. William A. Rasme Reviewer
   M. M. Slavney Supervisor, Review Section Chief

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. Rasme Compiler
   M. M. Slavney Supervisor

43. Remarks:
Field Edit Report
(Shoreline)
Map 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 MEWL 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&G3
Photo-Hydro Support Unit 721
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 55301 and 55302 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**

<table>
<thead>
<tr>
<th>Time and date of exposure</th>
<th>19 Nov 1957</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference station</td>
<td>MOBILE, MOBILE RIVER</td>
</tr>
<tr>
<td>Date of field inspection</td>
<td>APRIL 1959</td>
</tr>
<tr>
<td>Subordinate station</td>
<td>GREAT POINT CLEAIR, MOBILE BAY</td>
</tr>
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</table>

#### Tide Heights and Ranges

<table>
<thead>
<tr>
<th>Time</th>
<th>Height feet</th>
<th>Height x Ratio of ranges</th>
<th>Time</th>
<th>Height feet</th>
<th>Height x Ratio of ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td>High tide</td>
<td>1.4</td>
<td></td>
<td>High tide at Ref. Sta.</td>
<td>22 03</td>
<td></td>
</tr>
<tr>
<td>Low tide</td>
<td>-0.2</td>
<td></td>
<td>Time difference</td>
<td>-1 00</td>
<td></td>
</tr>
<tr>
<td>Duration of rise or fall</td>
<td>13 30</td>
<td></td>
<td>Corrected time at Subordinate station</td>
<td>21 03</td>
<td></td>
</tr>
<tr>
<td>Range of tide</td>
<td>1.6</td>
<td></td>
<td>Corrected time at Subordinate station</td>
<td>7 33</td>
<td></td>
</tr>
</tbody>
</table>

#### Time Calculations

<table>
<thead>
<tr>
<th>Time H. T.</th>
<th>Required time</th>
<th>Tabular correction</th>
<th>Stage of tide above MLW</th>
<th>Feature bares</th>
<th>Stage of tide above MLW</th>
<th>Feature above MLW</th>
</tr>
</thead>
<tbody>
<tr>
<td>21 03</td>
<td>14 41</td>
<td>0.7</td>
<td>0.7</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Computed by:** WWJD  
**Checked by:** JJS
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 intervals. 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
- Bellinger: 1:24,000, 1953
- Codeen: 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-8561 | 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 | 1:90,000 | 1965 |
Because of the scale difference only a visual comparison was made. No notable differences exist.

65. Adequacy of Results and Future Surveys

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

Reviewed by:

\[\text{Signature}\]

L.C. Lande

Approved by:

\[\text{Signature}\]

Chief, Photogrammetric Branch

L. T. Woodcock

Chief, Photogrammetry Division

Chief, Nautical Chart Division