**Form 604**

**U. S. DEPARTMENT OF COMMERCE**

**COAST AND GEODETIC SURVEY**

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>PLANIMETRIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>T-10976</td>
</tr>
<tr>
<td>Office No.</td>
<td>T-10976</td>
</tr>
</tbody>
</table>

**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>ALABAMA</th>
</tr>
</thead>
<tbody>
<tr>
<td>General locality</td>
<td>BALDWIN COUNTY</td>
</tr>
<tr>
<td>Locality</td>
<td>HURRICANE</td>
</tr>
</tbody>
</table>

**1957 - 1961**

**CHIEF OF PARTY**
Joseph K. Wilson, Chief of Field Party
V. Ralph Sobieralski, Tampa District Office

**LIBRARY & ARCHIVES**

**DATE**
DESCRIPTIVE REPORT - DATA RECORD

T - 10976

Project No. (II): Ph-5704

Quadrangle Name (IV):  

Field Office (II): Fairhope, Ala.

Chief of Party: Joseph K. Wilson

Photogrammetric Office (III): Tampa, Florida

Officer-in-Charge: V. Ralph Sobiersalski

Instructions dated (II) (III): (II) 23 June 1958 (Field)

10 Feb. 1959 (Field Suppl. 1)

(III) 7 April 1959 (Office)

17 Aug. 1959 (Office Suppl. 1)

9 Sept. 1959 (Stereo Bridging)

6 Oct. 1959 (Office Suppl. 1)

10 Nov. 1959 (Field & Office Suppl. 3)

Location of Aids to Navigation dated 7 Oct. 1959

Method of Compilation (III): Kalsh Plotter and graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:5,000

Scale Factor (III): Pantographed - 1:10,000

Date received in Washington Office (IV): 9/29/59

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Geographic Datum (III): N. A. 1927

Publication date (IV):

Vertical Datum (III): MHW

Mean sea-level except as follows:

Elevations shown as (2) refer to mean high water

Elevations shown as (3) refer to sounding datum

i.e., mean low water or mean lower low water

Reference Station (III): 633 (AGS) 1940

Lat. 

Long. 

Plane Coordinates (IV): State: Alabama

State: Alabama

Zone: West

x = 377,509.45

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

Inapplicable
DESCRIPTIVE REPORT - DATA RECORD

Joseph K. Wilson
W. M. Reynolds
Matthew A. Stewart

Field Inspection by (II):

Date: September 1959

Planetable contouring by (II):
Inapplicable

Date:

Completion Surveys by (II):
Lt. W. V. Hull

Date: June 1961

Mean High Water Location (III) (State date and method of location):
Air Photo Compilation
Date of photography - 20 Nov. 1957 & 20 June 1959

Projection and Grids ruled by (IV):
J. E. T. (W.O.)

Date: December 1959

Projection and Grids checked by (IV):
P. J. Dempsey (W.O.)

Date: December 1959

Control plotted by (III):
I. I. Saperstein

Date: January 1960

Control checked by (III):
W. W. Dawsey

Date: January 1960

&

Radial Plot & Stereoscopic
R. R. Wagner

Date: July 1960

Control extension by (III):
J. D. Perrow Jr.

November 1959

Stereoscopic Instrument compilation (III):
W. W. Dawsey

Date: October 1960

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

Date: October 1960

of compilation

Photogrammetric Office Review by (III):
W. H. Shearouse

Date: November 1960

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

Date:
DESCRIPTIVE REPORT - DATA RECORD

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>56891</td>
<td>20 Nov. 1957</td>
<td>1553</td>
<td>1:10,000</td>
<td>Too far inland for accurate computation</td>
</tr>
<tr>
<td>56892</td>
<td>1554</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>56893</td>
<td>1555</td>
<td></td>
<td></td>
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<tr>
<td>57008</td>
<td>1121</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>57009</td>
<td>1122</td>
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<tr>
<td>57010</td>
<td>1123</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>59-W-6024</td>
<td>20 June 1959</td>
<td>1452</td>
<td>1:25,000</td>
</tr>
<tr>
<td>59-W-6025</td>
<td>1452</td>
<td></td>
<td></td>
</tr>
<tr>
<td>59-W-6026</td>
<td>1453</td>
<td></td>
<td></td>
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</table>

Tide (III)

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Reference Station: Too far inland from computation

Washington Office Review by (IV):

Final Drafting by (IV): W.W. Dawsey (Tampa District Office)
Final Drafting Rev'd by: W.H. Shearouse (Tampa Dist. Office)
Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 14
Shoreline (More than 200 meters to opposite shore) (III): 23 lin. mi.
Shoreline (less than 200 meters to opposite shore) (III): Inapplicable
Control Leveling - Miles (II): Inapplicable
Number of Triangulation Stations searched for (II): 12 Recovered: 4 Identified: 3
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:
FIELD INSPECTION REPORT
Project Ph-5704
Map T-10976

Please refer to the Field Inspection Report for Map T-10980 for all
data pertaining to this map.

Submitted:
SEP 23 1959
Joseph K. Wilson
Chief, Photo Party 720
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR $y$-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>579 (AGS) 1939 P-29</td>
<td>County 1927</td>
<td>315,966.10</td>
<td>9,6306.7</td>
</tr>
<tr>
<td>633 (AGS) 1940 P-45</td>
<td></td>
<td>385.718.35</td>
<td>11,75.62</td>
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<tr>
<td>636 (AGS) 1940 P-45</td>
<td></td>
<td>310.980.07</td>
<td>9,2043.7</td>
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<tr>
<td>634 (AGS) 1940 P-45</td>
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<td>377.589.45</td>
<td>11,5065.1</td>
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<tr>
<td>635 (AGS) 1940 P-45</td>
<td></td>
<td>307.614.30</td>
<td>9,3761.1</td>
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<tr>
<td></td>
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<td>376.832.49</td>
<td>11,4249.2</td>
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<tr>
<td></td>
<td></td>
<td>302.899.33</td>
<td>9,2323.9</td>
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<tr>
<td></td>
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<td>377.849.33</td>
<td>11,5077.3</td>
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<tr>
<td></td>
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<td>307.302.88</td>
<td>9,3666.1</td>
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<tr>
<td></td>
<td></td>
<td>374.376.71</td>
<td>11,4110.2</td>
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</tbody>
</table>
COMPILATION REPORT T-10976

Radial Plot and Stereo Bridge reports submitted with T-10928.

31. **DELINEATION**

Most of the area was compiled by Kelsh Plotter. Approximately 1/2 minute along the north and south limits was delineated by graphic method, this part not being covered by the Kelsh plates. No unusual problems were encountered.

The field inspection was adequate.

32. **CONTROL**

See Photogrammetric Plot Reports.

33. **SUPPLEMENTAL DATA**

None.

34. **CONTOURS AND DRAINAGE**

Contours are inapplicable.

The drainage was delineated by the field inspector, but when some of the delineation was disproved by the details on other photographs, particularly in the swamps, all the drainage that could not be seen was doubted. Only the drainage identified by stereoscopic examination has been shown. Please refer to the letter dated 10 October 1960 on DRAINAGE, Ph-5704 to Chief, Photogrammetry Division from Tampa District Officer for more information about this.

35. **SHORELINE AND ALONGSHORE DETAILS**

The shoreline and shoreline details were delineated according to the field inspection which was adequate. No low-water or shoal lines were shown.

36. **OFFSHORE DETAILS**

None.
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  
LCR, C&GS  
Tampa District Officer
37. LANDMARKS AND AIDS

There are no landmarks.

Two non-floating aids were located and submitted on Form 567 under date of 18 October 1960. A revised position for one of these was forwarded on 22 November 1960.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Satisfactory junctions were made with the following:

- T-1097 1/2 to the north
- T-1097 1/2 to the west
- T-1097 1/2 to the south

There is no contemporary survey to the east. This survey lies within the northeast quarter of the 1:24,000 scale HURRICANE, ALA. quadrangle. Principal details along the east limits are in good agreement.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with the Geological Survey quadrangle HURRICANE, ALA., scale 1:24,000, revised to 1953.

Comparison was made with Planimetric Map No. T-5530, scale 1:20,000, dated 1934.

The comparison was favorable except for man-made changes and those due to the passage of time.
47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Nautical Chart No. 1266, scale 1:80,000, edition of 16 November 1959, corrected to 23 July 1960. The maps listed under item 46 were probably in part the source of the topography for this chart and the same differences exist.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Webber W. Dauysey
Cartographer (Photo)

APPROVED AND FORWARDED

Ralph Sobierski
V. Ralph Sobierski
Tampa District Officer
48. GEOGRAPHIC NAME LIST

Names were taken from Chart 1266, map T-5530 and USGS quadrangle HURRICANE, ALA. There were no conflicts among the sources used.

ALABAMA

BALDWIN COUNTY
BIG BRIAR CREEK
BIG LIZARD CREEK

HURRICANE
HURRICANE BAYOU

LOUISVILLE AND NASHVILLE RR
LOWER HALL LANDING

MILLER CEMETERY

NEGRO LAKE

PERKINS LANDING

SIZEMORE LANDING
SMITH BAYOU
STONY HILL CREEK
ST MARYS CHURCH

TENSAS RIVER

UPPER HALL LANDING

Names checked & approved
12-10-65
A.J. Wright
19. NOTES FOR THE HYDROGRAPHER.

None.
PHOTOGRAMMETRIC OFFICE REVIEW OF ADVANCE MANUSCRIPT
T-10976


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) WHS 7. Photo hydro stations XX 8. Benchmarks XX

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

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

MISCELLANEOUS

40. William H. Shearouse

Reviewer
William H. Shearouse

Supervisor, Review Section or Unit
Milton 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.

R. R. Wagner
Compiler
Milton M. Slavney

43. Remarks:
Field Edit Report
(Shoreline)
Quadrangles T-10926, T-10973,
T-10974, T-10975, T-10976,
T-10977, T-10978, T-10981.

51. Methods

The shoreline was inspected by truck and skiff. The distance
to the MHML was spot checked at intervals from points of known
location and found to be correct and adequate, except where noted
on the ozalid copies of the map manuscripts and the photographs.

Corrections and additions to the manuscript have been noted
on the field edit sheets in red and on the photographs in purple.
Deletions are shown in green.

Field edit information has been shown on field edit sheets for
T-10926, T-10973, T-10974, T-10975, T-10976, T-10977, T-10978,
T-10981; on nine lens photographs 56891, 56893, 56948, 56950, 56954,
56959, 56971, 57012, 57013; nine lens office print 56959.

52. Adequacy of Compilation.

The map compilation appears complete and adequate with the
exception to the corrections and additions as shown on the ozalid
field edit sheets.

53. Map accuracy.

The accuracy of the map compilation appears to be complete and
adequate.

54. Recommendations:

There are no recommendations.

55. Examination of Proof Copy.

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

Submitted:

[Signature]
Wesley V. Hull
LTG C&GS
Photo Hydro Support Unit 721
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

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale (1:xxx)</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-3713</td>
<td>1:40,000</td>
<td>1918</td>
</tr>
<tr>
<td>T-5530</td>
<td>1:20,000</td>
<td>1934</td>
</tr>
</tbody>
</table>

Cultural and shoreline changes have been continuous. These maps are to supersede the above surveys for common area for nautical charting. Also see Item 46.

63. Comparison with Maps of Other Agencies

<table>
<thead>
<tr>
<th>Agency</th>
<th>Scale (1:xxx)</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bay Minette</td>
<td>1:62,500</td>
<td>1941</td>
</tr>
<tr>
<td>Hurricane</td>
<td>1:24,000</td>
<td>1953</td>
</tr>
<tr>
<td>Bridgehead</td>
<td>1:24,000</td>
<td>1953</td>
</tr>
</tbody>
</table>

See Item 46.

64. Comparison with Contemporary Hydrographic Surveys

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale (1:xxx)</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-8588</td>
<td>1:10,000</td>
<td>1961</td>
</tr>
<tr>
<td>H-8589</td>
<td>1:10,000</td>
<td>1961</td>
</tr>
<tr>
<td>H-8590</td>
<td>1:10,000</td>
<td>1961</td>
</tr>
<tr>
<td>H-8591</td>
<td>1:10,000</td>
<td>1961</td>
</tr>
</tbody>
</table>

Shoreline and control of subject surveys was furnished to the hydrographic surveys and apparently no difference of importance exists.

65. Comparison with Nautical Charts

<table>
<thead>
<tr>
<th>Chart</th>
<th>Scale (1:xxx)</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1266</td>
<td>1:80,000</td>
<td>1965</td>
</tr>
</tbody>
</table>

Because of the scale difference only a visual comparison was made. No notable differences exist.
66. Adequacy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the required accuracy for nautical charting.

Reviewed by:

L. C. Lande

Approved by:

Chief, Photogrammetric Branch
Chief, Nautical Chart Division

Chief, Photogrammetry Division