U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey     Topographic
Field No.          Ph-60(49)A  Office No. T-9382

LOCALITY
State             Mississippi
General locality  Biloxi Bay
Locality          Ocean Springs

1950-54

CHIEF OF PARTY
P.L.Bernstein, Chief of Field Party
J.E.Waugh, Mapa Photo. Office

LIBRARY & ARCHIVES

DATE           May 23, 1958
DATA RECORD

T 9382

Project No. (II): Ph-60(49)A

Field Office (II): Gulfport, Mississippi
Photogrammetric Office (III): Tampa, Florida

Instructions dated (II) (III): 8 August 1950

Chief of Party: P. L. Bernstein
Officer-in-Charge: J. E. Waugh

Copy filed in Division of Photogrammetry (IV)
Office Files

Method of Compilation (III): Graphic
Manuscript Scale (III): 1:10,000

Scale Factor (III): None

Stereoscopic Plotting Instrument Scale (III): Inapplicable

Date received in Washington Office (IV): APR 17 1953
Date reported to Nautical Chart Branch (IV): 4-30-53

Applied to Chart No.
Date: Date registered (IV): 5-19-58

Publication Scale (IV):

Geographic Datum (III): N.A. 1927

Publication date (IV):

Vertical Datum (III): MSL
Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): DAVIS 1935

Lat.: 30° 22' 17.955 (552.9m.)
Long.: 88° 16' 53.778 (1136.0m.)

Plane Coordinates (IV):

State: Miss Zone: East

Y=
X=

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)
DATA RECORD

Field Inspection by (II): C. H. Baldwin  
W. H. Nelson
Date: Sept. 1951  
Sept. & Oct. 1950

Planetable contouring by (II): C. H. Baldwin  
W. H. Nelson
Date: Sept. 1951  
Sept. 1950

Completion Surveys by (II): Elgan T. Jenkins
Date: March 1954

Mean High Water Location (III) (State date and method of location):
Air photo compilation September 1951

Projection and Grids ruled by (IV): T. L. J. (W.O.)
Date: 21 Feb. 1951

Projection and Grids checked by (IV): H. D. W. (W.O.)
Date: 27 Feb. 1951

Control plotted by (III): I. I. Saperstein
Date: 4 Dec. 1951

Control checked by (III): R. J. Fate
Date: 6 Dec. 1951

Radial Plot stereoscopic
Determination by (III): M. M. Slavney
Date: 18 Mar. 1952

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

Manuscript delineated by (III): R. A. Reece
Date: 11 Apr. 1952

Photogrammetric Office Review by (III): J. A. Giles
Date: 24 Feb. 1953

Elevations on Manuscript  
checked by (III): J. A. Giles
Date: 20 Feb. 1953
<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>26019</td>
<td>15 May 1950</td>
<td>15.05</td>
<td>1:10,000</td>
<td>0.7</td>
</tr>
<tr>
<td>26020</td>
<td></td>
<td>15.06</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26023</td>
<td></td>
<td>15.12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26024</td>
<td></td>
<td>15.13</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Tide (III)**

**Reference Station:** Pensacola, Florida  
**Subordinate Station:** Biloxi, Biloxi Bay

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.4</td>
<td>1.8</td>
<td></td>
</tr>
</tbody>
</table>

**Date:** 16 Nov 1955

**Final Drafting by (IV):**

**Drafting verified for reproduction by (IV):**

**Proof Edit by (IV):**

**Land Area (Sq. Statute Miles) (III):** 2  
**Shoreline (More than 200 meters to opposite shore) (III):** 9  
**Shoreline (Less than 200 meters to opposite shore) (III):** 3  
**Control Leveling - Miles (II):** 7.0

* Number of Triangulation Stations searched for (II): 13  
** Number of BMs searched for (II): 0

* Number of Recoverable Photo Stations established (III): 5
** Number of Temporary Photo Hydro Stations established (III): 0

**Remarks:** *Four (4) triangulation stations searched for were outside the project.*  
**Two (2) BMs that lie east of this quadrangle have Forms 685 submitted for them.*
2. AREAL FIELD INSPECTION

The area composing this map is a small section of a low ridge running in an east-west direction just northwest of Belle Fontaine Point and the southeastern section of Deer Island.

The section of the mainland lies along the north shore of Mississippi Sound. Deer Island lies further to the west in Mississippi Sound and forms the outer barrier of Biloxi Bay.

The low ridge northwest of Belle Fontaine Point reaches an elevation of 21 feet and drops to sea level on both the north and south sides where marsh and some swamp exists. Deer Island is a typical low lying barrier island surrounded by a sand beach, scattered sand dunes now grass covered and a few detached pine covered sand ridges with areas of marsh interspersed throughout the interior.

Photography was very satisfactory in all respects. Little difficulty should be encountered in office interpretation of them. There are photographic tones indicative of any special types of vegetation peculiar to the area.

Field inspection is believed to be adequate and complete.

Interior field inspection notes are to be found on photographs 26019, 26020, 26023, and 26024.

3. HORIZONTAL CONTROL

All horizontal control required for control of the plot by project instructions was searched for and identified if recovered.

No supplemental horizontal control was established.

Of three U. S. Geological Survey traverse stations established in 1940, two were recovered and identified and the other reported lost.

The following are stations reported lost: BELLE 1910; BILL 1910; DEER 1910; LOX 1935; MONK 1910; MONK 2 1935; and CK 1910.

Horizontal control was identified on photographs 26019, 26020, 26021, and 26023.

4. VERTICAL CONTROL

There are no bench marks within the area.

Bench Mark T8T 1940 USGS was used to supplement levels for contour control.
Fly level points were numbered 82-01 through 82-06.

5. CONTOURS AND DRAINAGE

Contouring was done directly on 1:10,000 scale photographs by plane-table methods. No departures from standard procedures were necessary to obtain the required elevations.

Drainage was delineated and classified as to type where deemed necessary.

Contouring was done on photographs 26019, 26020, 26023, and 26024.

6. WOODLAND COVER

Woodland cover of the high ground is composed entirely of pine except for scattered live oak trees around dwellings. Gum, hickory, bay, and some few scattered cypress are found in the swampy areas. Gum predominates.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was inspected visually and measurements made to it from identifiable detail and plotted on the photographs.

The foreshore along all shoreline except marsh is sloping sand beach.

There are no docks, wharves, piers, landings, or submarine cables in the area. (Piling at 30° 22' 21.5" N 88° 46' 30" E)

All other shoreline features are adequately covered by the photographs.

Shoreline inspection was done on photographs 26019, 26020, 26023, and 26024.

8. OFFSHORE FEATURES

There are no offshore features.

9. LANDMARKS AND AIDS

There are no landmarks or aids in this area.

10. BOUNDARIES, MONUMENTS, AND LINES

For boundaries, see "Special Report, Boundaries, Project Ph-60(49).

Inquiries were made of landowners and other individuals having local knowledge of land lines of the area. These failed to disclose any existing section corners.
11. **OTHER CONTROL**

The following are recoverable topographic stations established: ABLE 1950; CARE 1950; and CIST 1950.

12. **OTHER INTERIOR FEATURES**

All roads and buildings have been indicated where obscured and classified.

A telephone line running in an east-west direction along the north side of the area was delineated.

13. **GEOGRAPHIC NAMES**

See "Special Report, Geographic Names, Project Ph-60(49)."

14. **SPECIAL REPORTS AND SUPPLEMENTAL DATA**

"Special Report, Boundaries, Project Ph-60(49)", forwarded to Washington Office 4 September 1951.

"Special Report, Geographic Names, Project Ph-60(49)", forwarded to the Washington Office 24 May 1951.

Letter of transmittal 60-23, Data, Quadrangle T-9382, forwarded to the Washington Office October 1951.

Submitted
17 October 1951

Charles E. Baldwin
Cartographic Survey Aid

Approved and forwarded
27 October 1951

Percy L. Bernstein
Chief of Party
PHOTOGRAMMETRIC PLOT REPORT

This report covers the photogrammetric plot for maps T-9376 through T-9382 and is filed as part of the Descriptive Report for T-9379.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</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>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>DAVIS, 1935</td>
<td>0339h Pgs 61</td>
<td>N.A. 1927</td>
<td>30</td>
<td>22</td>
<td>17.955</td>
<td></td>
<td>552.9 (1,294.7)</td>
<td>1,136.0 (1,661.1)</td>
</tr>
<tr>
<td>END RM 1, 1935</td>
<td>Comp</td>
<td>n</td>
<td>30</td>
<td>21</td>
<td>28.458</td>
<td></td>
<td>876.3 (973.7)</td>
<td>816.7 (785.9)</td>
</tr>
<tr>
<td>TT 9T, 1940</td>
<td>Biloxi Bay</td>
<td>n</td>
<td>30</td>
<td>22</td>
<td>06.32</td>
<td></td>
<td>203.8 (1,643.7)</td>
<td>313.0 (1,289.2)</td>
</tr>
<tr>
<td></td>
<td>Quad 5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td># TT 10T, 1940</td>
<td>Pascagoula</td>
<td>n</td>
<td>30</td>
<td>21</td>
<td>44.96</td>
<td></td>
<td>1,384.5 (463.1)</td>
<td>264.1 (1,338.1)</td>
</tr>
<tr>
<td></td>
<td>Quad 280</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAMILL RM 1, 1935</td>
<td>Comp</td>
<td>*</td>
<td>246,389.52</td>
<td>548,848.05</td>
<td>1,582.52 (3,110.18)</td>
<td></td>
<td>2,565.05 (2,431.95)</td>
<td></td>
</tr>
</tbody>
</table>

* WEST OF PROJECT, BUT IDENTIFIED AND USED IN CONTROLLING RADIAL PLOT
COMPILATION REPORT T-9382

PHOTOGRAFOMETRIC PLOT REPORT.

This report was submitted with T-9379.

31. DELINEATION.

The manuscript was delineated by the graphic method.

Photographs were clear and of fair scale.

Field inspection was satisfactory.

32. CONTROL.

Sufficient control was identified. Density and placement were good.

33. SUPPLEMENTAL DATA.

None used. GLO plats for land lines. 5MR

34. CONTOURS AND DRAINAGE.

No difficulties were encountered in compiling the drainage and contours.

35. SHORELINE AND ALONGSHORE DETAILS.

Shoreline and alongshore details have been shown according to field inspection notes and photograph interpretation. Shoreline inspection is believed to be adequate.

36. OFFSHORE DETAILS.

None.
37. **LANDMARKS AND AIDS.**

Reference Item 9.

38. **CONTROL FOR FUTURE SURVEYS.**

Three (3) Forms 524 are being submitted. These stations are listed under Item 49.

39. **JUNCTIONS.**

This quadrangle joins Survey T-9378 to the north and Survey T-9385 to the south. Junctions are in agreement. There is no contemporaneous survey to the east. Water is to the west.

40. **HORIZONTAL AND VERTICAL ACCURACY.**

No statement. See § 66

41. **PUBLIC LAND LINES.**

No Bureau of Land Management (G.L.O.) plats were available for Deer Island. It is therefore recommended that section lines be omitted on the published quadrangle for Deer Island. *(Evidently Deer Island has not been sectionalized by G.L.O.)*

Section lines on the mainland were extended from Quadrangle T-9378 on the north and are only approximate. It is requested that, after further investigation, the field editor recommend whether or not the section lines on the mainland be published. See § 56

46. **COMPARISON WITH EXISTING MAPS.**

There are no topographic quadrangles of the area available for comparison. See § 63
GS-363 (46-12) ( ), 1:20,000, was used for comparison. No significant changes have taken place.

Comparison was also made with USGS Planimetric Map T-5274 BILOXI-OCEAN SPRINGS, scale 1:10,000, 1947 edition, issued in July 1949. No significant changes have taken place.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with USGS Nautical Chart No. 875, scale 1:40,000, published January 1948, corrected to 19 September 1950. The planimetric map listed under Item 46 was the source of the planimetry on the nautical chart. The same differences apply.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

APPROVED AND FORWARDED:

Richard A. Reece
Richard A. Reece, Carto. Photo. Aid

J. E. Waugh, Chief of Party
48. GEOGRAPHIC NAME LIST.

BILOXI BAY

DEER ISLAND

GRAND BAYOU

HARRISON COUNTY

JACKSON COUNTY

MISSISSIPPI

MISSISSIPPI SOUND

SUPERVISORS DISTRICT NO. 1
SUPERVISORS DISTRICT NO. 4

Names Approved
49. **NOTES FOR THE HYDROGRAPHER.**

The following topographic stations will be of use to the hydrographer:

ABLE 1950

CARE 1950

CIST 1950
<table>
<thead>
<tr>
<th>Time of Tide</th>
<th>Height</th>
<th>Height x Ratio of Ranges</th>
<th>Time of Tide at Ref. Sta.</th>
<th>Time Difference</th>
<th>Corrected Time at Subordinate Station</th>
</tr>
</thead>
<tbody>
<tr>
<td>High tide</td>
<td>1.3</td>
<td>1.8</td>
<td>09 11</td>
<td>0 25</td>
<td>08 46</td>
</tr>
<tr>
<td>Low tide</td>
<td>-0.1</td>
<td>-0.1</td>
<td>20 11</td>
<td>0 25</td>
<td>19 16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>h. m.</th>
<th>Tabular correction</th>
<th>Stage of Tide Above MLW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time H. T. or L. T.</td>
<td>19 16</td>
<td>-0.1</td>
<td>Feature bares</td>
</tr>
<tr>
<td>Required time</td>
<td>15 05</td>
<td>0.8</td>
<td>Stage of tide above MLW</td>
</tr>
<tr>
<td>Interval</td>
<td>4 41</td>
<td>0.7</td>
<td>Feature above MLW</td>
</tr>
</tbody>
</table>

Computed by R. A. Reese  Checked by R. R. Wagner
PHOTOGRA/MMETRIC OFFICE REVIEW
T-9832


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

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES

MISCELLANEOUS
33. Geographic names J.G.  34. Junctions J.G.  35. Legibility of the manuscript J.G.  36. Orthography

40. Jesse A. Giles  
Reviewer

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  
Supervisor

43. Remarks:

William A. Reasor  
Supervisor, Review Section or Unit
FIELD EDIT REPORT
Quadrangle T- 9382(MISS SOUNO)
Project Ph 60(49)
I. R. Rubottom, Chief of Party

51. METHODS- This quadrangle was inspected by riding over all
roads to check their classification, to check buildings, to ex-
amine questioned areas and to visually check contours. The
shoreline was inspected by running close to shore with a skiff
and by going ashore where necessary.

An enclosed tracing of a plat indicates a concrete monument
was set in 1930, for section corner 2,3,11 and 10. Three iron
pipes, the easterly and westerly ones being bent, were located
on the line between sections 3 and 10 from station DAVIS, 1935.
In an effort to locate this section corner, after local infor-
mation disclosed nothing, the position of the three iron pipes
were plotted on a metal mounted sheet at a scale of 1 inch =
200 ft. and a line projected through them the necessary length
to plot the distance, as shown on the plat, to the section cor-
ner. A plane table traverse, using the proper methods for this
scale, was then made to the monument site; but after a two hour
search by five men, probing and cutting brush, it was decided
the monument had evidently been destroyed by logging operations
in the area. (See item # 56)

Additions, corrections and deletions were made on the field
edit sheet or cross referenced to the photographs. Red ink was
used for additions and corrections and green for deletions. No
legend is shown on the field edit sheet or photographs.

Field edit information is shown on one double weight matte
print, used as a field edit sheet of the north $\frac{1}{2}$, one discrep-
ancy print, one section line discrepancy print and one nine lens
1:10,000 scale photograph # 26019

52. ADEQUACY OF COMPILATION- The map compilation is near ade-
quate and will be complete with the application of the field
edit data.

53. MAP ACCURACY- No type of accuracy test was made of this
quadrangle. (Some accuracy testing was done on T-9378) ERR

54. RECOMMENDATIONS- None offered.

55. EXAMINATION OF PROOF COPY- No one was requested to ex-
amine a proof copy of this map.

See 862
56. BOUNDARIES, MONUMENTS AND LINES—With the location of the section line markers, described under item 51 of this report, and with the distances shown on the plat, the section lines may be added to the quadrangle. This will check well with section lines extended from quadrangle T-93C7. (See item 41, Compilation Report for T-9382)

Submitted,
April 2, 1954

Elgan T. Jenkins
Cartographer

Approved and forwarded:
Ira R. Rubottom, CDR.
Chief of Party

Item 55:

The name and address of a competent local resident should have been obtained who would agree to examine a proof copy of the map.
62. **Comparison with Registered Topographic Surveys:**

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-323</td>
<td>1:20,000</td>
<td>1851</td>
</tr>
<tr>
<td>T-324</td>
<td>1:10,000</td>
<td>&quot;</td>
</tr>
<tr>
<td>T-384</td>
<td>&quot;</td>
<td>1852</td>
</tr>
<tr>
<td>T-3701</td>
<td>1:40,000</td>
<td>1916-17</td>
</tr>
<tr>
<td>T-5274</td>
<td>1:10,000</td>
<td>1943-47</td>
</tr>
</tbody>
</table>

Shoreline has eroded considerably since these surveys with changes as great as 150 meters since 1851. There are also some changes in marsh and culture. For the area it encompasses, T-9382 is to supersede these surveys for nautical charting purposes.

63. **Comparison with Maps of Other Agencies:**

Biloxi, Miss. (G. of E.) (Advance Sheet) 1:62,500 1942

Shoreline is considerably different than that mapped on T-9382. The Harrison County-Jackson County boundary is in error on this G. of E. map, based on reliable data submitted in conjunction with T-9382.

64. **Comparison with Contemporary Hydrographic Surveys:**

None.

65. **Comparison with Nautical Charts:**

875 1:40,000, corrected to 8/22/55

Slight differences in shoreline, marsh limits, and roads exist which do not warrant immediate application.

66. **Adequacy of Results and Future Surveys:**

This map complies with National Standards of Map Accuracy and Bureau requirements.

Reviewed by:

[Signature]

Everett H. Ramsey
876 inspected. All tops falls east of 876. 23/01/55.