NOAA FORM 76-35
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)
Job No. RH-6902 Map No. TP-00038
Classification No. Edition No. 1st
Field Edited

LOCALITY
State Mississippi - Louisiana
General Locality Lake Borgne
Locality Grand Bayou

1959 TO 1970

REGISTRY IN ARCHIVES
DATE

© U.S. GOVERNMENT PRINTING OFFICE: 1972-761-152
MAP NOT INSPECTED IN QUALITY CONTROL PRIOR TO REGISTRATION
DESCRIPTIVE REPORT - DATA RECORD

TP-00038

PROJECT NO. (III):
PH-6902

FIELD OFFICE (III):
Pass Christian, MISS.

CHIEF OF PARTY
Dale M. Fuller

PHOTOGRAHMATIC OFFICE (III):
Atlantic Marine Center - Norfolk, VA

OFFICER-IN-CHARGE
Alfred C. Holmes, Director, AMC

INSTRUCTIONS DATED (III III):
Office - Aerotriangulation - June 13, 1969
Office - Compilation - July 25, 1969
Office - Amendment I - Oct. 6, 1969
Office - Amendment 2 - Dec. 11, 1969
Office - Supplement I - May 13, 1970
Post Compilation Field No - Date April 6, 1970
Field - April 28, 1969
Field - Supplement I - October 7, 1969
Review of Instructions - June 20, 1972

METHOD OF COMPILATION (III III):
Wild B-8 Stereoplotter

MANUSCRIPT SCALE (III III):
1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III III):
1:15,000 Pantographed to 1:10,000

DATE RECEIVED IN WASHINGTON OFFICE (IV IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV IV):
May 24, 1975

GEODETIC DATUM (III III):
N.A. 1927

REFERENCE STATION (III III):
Stonewall, 1966

LAT.:
30° 15' 47.909" N

LONG.:
89° 23' 38.503" W

ADJUSTED

PLANE COORDINATES (IV IV):

y = 217,410.40 Ft.
x = 322,981.44 Ft.

STATE
Mississippi

ZONE
East

MAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE,
A (IV) WASHINGTON OFFICE.

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.
### DESCRIPTIVE REPORT - DATA RECORD

**TP-00038**

<table>
<thead>
<tr>
<th>Field Inspection by (II):</th>
<th>Date:</th>
</tr>
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<tbody>
<tr>
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</table>

**Mean High Water Location (III):**
- **Air Photo Compilation -** June 3, 1969, Date of Photography. Oct. 16, 1969 (After "Camille")

**Projection and Grids Ruled by (IV):**
- Coradomat Auto Plotter

**Projection and Grids Checked by (IV):**
- Coradomat Auto Plotter

**Control Plotted by (III):**
- Coradomat Auto Plotter

**Control Checked by (III):**
- Coradomat Auto Plotter

**Radial Plot or Stereoscopic Control Extension by (III):**
- R.E. Fisher
  - Oct., 1969

**Stereoscopic Instrument Compilation (III):**
- **Planimetry**
  - L.O. Neterer
  - Rev. by: C.H. Bishop
  - Jan. 26, 1970
- **Contours**
  - Inapplicable
  - Jan. 26, 1970

**Manuscript Delineated by (III):**
- R.J. Pate
  - March 6, 1970

**Scribing by (III):**
- Date

**Photogrammetric Office Review by (III):**
- C.H. Bishop
  - Compilation - Field Edit - C. Blood
  - 3-14-70
  - 9-20-71

**Remarks:**
- Field Edit By: Dale Fuller
  - Date: Oct., 1970
**DESCRIPTIVE REPORT - DATA RECORD**

**Camera (Kind or Source) (iii):**

**Photographs (iii):**

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<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<td>69L(C) 9452</td>
<td>June 3, 1969</td>
<td>14:54 C.S.T.</td>
<td>1:30,000</td>
<td>2.1 ft. above M.L.W.</td>
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<tr>
<td>Thru 9456</td>
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<td></td>
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</tr>
<tr>
<td>69L(C) 6198</td>
<td>Oct. 16, 1969</td>
<td>12:10 C.S.T.</td>
<td>1:20,000</td>
<td>0.0 ft. above M.L.W.</td>
</tr>
<tr>
<td>Thru 6204</td>
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<td></td>
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</tr>
<tr>
<td>69L(C) 6220</td>
<td>Oct. 16, 1969</td>
<td>12:10 C.S.T.</td>
<td>1:20,000</td>
<td>0.0 ft. above M.L.W.</td>
</tr>
<tr>
<td>Thru 6224</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>69L(C) 6250 &amp; 6251</td>
<td>Oct. 16, 1969</td>
<td>12:39 C.S.T.</td>
<td>1:20,000</td>
<td>0.0 ft. above M.L.W.</td>
</tr>
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</table>

**Predicted Tide (iii):**

- **Diurnal**

**Reference Station:** Pensacola, FL

**Mean Range:**
- Tide: 0.6' - 1.3'

**Subordinate Station:** Bay St. Louis, MISS

**Mean Range:**
- 0.8' - 1.6'

**Atlantic Marine Center Review by (iv):**

- **C. H. Bishop**

**Date:** Jan. 1974

**Proof Edit by (iv):**

**Identified:**

**Number of Triangulation Stations Searched for (ii):** 1

**Recovered:** 1

**Number of BM(S) Searched for (iii):** 0

**Recovered:** 0

**Number of Recoverable Photo Stations Established (iii):** 0

**Number of Temporary Photo Hydro Stations Established (iii):** 0

**Remarks:**

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**USCOM-D C 38363-C-P86**
<table>
<thead>
<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
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<td>Mar. 6, 1970</td>
<td>Superseded</td>
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<td>Field Edit Applied</td>
<td>Sept. 20, 1971</td>
<td>Superseded</td>
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<tr>
<td>Final Review</td>
<td>Jan., 1974</td>
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SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT TP-00038

This 1:10,000 scale shoreline manuscript is one of 16 maps that comprise Project PH-6902, Lake Borgne, MISS.- LA. The project diagram on page five (5) shows the location of this map in the project.

The only field work done before compilation was recovery and identification of horizontal control required for bridging.

Bridging was done on the C-5 and C-8 Stereo-planigraphs, using 1:30,000 scale photographs taken in June 1969 before Hurricane Camille, which crossed the area on August 6, 1969. Diapositives of the same photography were used for compilation of interior details on the Wild B-8 plotter. In October, after the hurricane, new photography was flown at 1:20,000 scale. This was used for compilation of shoreline and alongshore features and photo-hydro support.

Field edit was done in October 1970.

Final review was done at the Atlantic Marine Center in January, 1974.

The original manuscript was a stabiline sheet five (5) minutes in latitude by six (6) minutes in longitude.

A cronaflex positive and a negative of the final reviewed map were forwarded for record and registry.
FIELD INSPECTION REPORT
PH-6902
TP-00038

There was no field inspection prior to compilation.
Shoreline Mapping, Lake Borgne, La.

FIELD

JOB PH-6902

Premark was done in accordance with Instructions received 29 April, 1969.

All stations were premarked using panel array no. 2.

MILT, 1969 was established in target area no. 4 on flight line 30-1. Permission to establish MILT, 1969 as third-order was obtained from C-1413.

Photography was completed on 3 June 1969.

Respectfully Submitted,

Dale M. Fuller
Photo Party 61
Pass Christian, Miss
21. Area Covered

This project dealt with an area on the Mississippi Gulf Coast in the Mississippi Sound - St. Louis Bay area. T-sheets covering this area are as follows:

1:10,000 sheets:

TP-00036, TP-00037, TP-00038, TP-00039

1:20,000 sheets:

TP-00041

22. Method

Strip #1 (Photos 69-L(C)-9449-62) was bridged on the Zeiss C-8 stereoplanigraph. Strip #3 (Photographs 69-L(C)-9408-16) was bridged on the Zeiss C-5 stereoplanigraph.

Strip #2 was not bridged. It was decided that the side overlap of Strips #1 & 3 was such that the bridging of Strip #2 was unnecessary. Model 9469-70 in Strip #2 can be controlled using tie points 69-L(C)-57801, 12801, 13801, 13802, 13803 and 13804 from the other strips.

Strip #1 and #3 were adjusted using the conventional aero-triangulation strip adjustment method.

23. Adequacy of Control

The location and number of horizontal control points was adequate for both Strip #1 and Strip #3. All control was held to within acceptable limits.

Strip #1 was adjusted using five of the eight horizontal control stations in the strip. Strip #3 was adjusted using all three control stations in the strip plus tie point #65801 from Strip #1.

24. Supplemental Data

None
25. **Photography**

The photography for this project was acceptable but was darker than desired. Darkness became especially objectionable near the corners of the models. All of the photography suffered from this trouble.

For some reason no fiducials appeared on the photography. The fiducial lights in the camera were probably not operating at the time of photography.

Submitted,

Robert E. Fisher

Approved and forwarded,

Henry P. Eichert
Chief, Aerotriangulation Section
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 FT. = 3048000 INCH)</th>
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<tr>
<td>STONEWALL, 1966</td>
<td>300892</td>
<td>N.A.</td>
<td>30° 15' 47.909&quot; 89° 23' 38.503&quot;</td>
<td>1475.3  (372.3)</td>
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<tr>
<td></td>
<td>1123</td>
<td>1927</td>
<td></td>
<td>1029.3  (574.6)</td>
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<td>BLUE, 1958</td>
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<td>N.A.</td>
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<td></td>
<td>1022</td>
<td>1927</td>
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<td>501.5    (1101.3)</td>
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<td>ST. LOUIS 2, 1966</td>
<td>300892</td>
<td>N.A.</td>
<td>30° 17' 29.52860&quot; 89° 21' 04.82700&quot;</td>
<td>878.5    (969.1)</td>
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<tr>
<td></td>
<td>1050</td>
<td>1927</td>
<td></td>
<td>129.0    (1474.4)</td>
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**COMPUTED BY** R.J. Pate  **DATE** Feb. 17, 1970  
**CHECKED BY** R. White C. H. Bishop  **DATE** Mar. 3, 1970
COMPILATION REPORT

TP-00038  PH-6902

31. **DELINEATION:**

This sheet was compiled graphically from color ratios, the scale of which ran from good to poor.

The photographs were generally dark and in most areas the shoreline was very difficult to determine and required inking with vermillion pigment ink to be seen through the density of the sheet material.

Detail along the northern limits of the sheet was restricted by inadequate Photo coverage.

32. **CONTROL:**

Shoreline control points were dropped by means of the "B-8" from diapositives of 1:30,000 scale.

Additional points where needed were cut-in graphically by holding these and identifiable bridge points for control.

33. **SUPPLEMENTAL DATA:**

None

34. **CONTOURS AND DRAINAGE:**

Contours are inapplicable.

Drainage consists chiefly of marsh streams and ditches and have been delineated from office interpretation of the photographs.

35. **SHORELINE AND ALONGSHORE DETAILS:**

A berm line visible on the photographs against a white sand beach was delineated as the mean high water line, which is to be verified during field edit by measurements from identifiable points
on the photographs at approximately half mile intervals.

The approximate mean low water line, piers or pier ruins, groins etc. were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS:

Two Forms 76-40, Landmarks for Charts, were submitted to the Rockville office in February, 1974 (one for Aeronautical Charts Branch). Chart Letter No. 252.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Satisfactory junctions have been made with TP-00036 to the north, TP-00039 to the east and TP-000178 to the west. There is no contemporary survey to the south.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with U.S. Geological Quadrangle WAVELAND, MISS., and BAY ST. LOUIS, MISS., both scale 1:24,000, dated 1956.

In the Waveland quadrangle numerous canals have been dug in land development projects in the vicinity from Joes Bayou to Bayou La Croix, Lat 30° 19' to 30° 20' and Long. 89° 22' to 89° 25'.

47. COMPARISON WITH NAUTICAL CHARTS:

The incompletely portion of roads and canals extending southward from the area mentioned under item 46 were not delineated due to inadequate photograph coverage.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:
Charles H. Bishop
for R.J. Pate
Cartographic Technician
March 9, 1970

Approved for forwarding:
Jeffrey G. Carlen, CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:
Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center
GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6902 (Mississippi Sound, Miss.-La.)

TP-00038

Bayou La Croix
Bay St. Louis
Breath Bayou
Cameron Island
Clermont Harbor
Edwards Bayou
Four Dollar Bayou
Grand Bayou
Jackson Ridge
Joes Bayou
Mississippi Sound
Mud Bayou
Sand Bayou
Watts Bayou
Waveland

Prepared by:

Chas. E. Harrington
Staff Geographer
<table>
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<th>Item</th>
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<td>2.</td>
<td>Title</td>
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<tr>
<td>3.</td>
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<td>4.</td>
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<td>5.</td>
<td>Control Stations</td>
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<td>Horizontal control stations of third-order or higher accuracy</td>
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<td>7.</td>
<td>Photographic stations</td>
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<tr>
<td>8.</td>
<td>Photographic Plots and Fixtures</td>
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<tr>
<td>9.</td>
<td>Photographic Plot Report</td>
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<tr>
<td>10.</td>
<td>Photographic Plot Report</td>
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<tr>
<td>11.</td>
<td>Detail Points</td>
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<tr>
<td>12.</td>
<td>Alongshore Areas (Nautical Chart Data)</td>
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<td>13.</td>
<td>Shoreline</td>
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<td>14.</td>
<td>Low-water line</td>
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<td>15.</td>
<td>Rocks, Shoals, Etc.</td>
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<tr>
<td>16.</td>
<td>Bridges</td>
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<td>17.</td>
<td>Aids to Navigation</td>
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<td>18.</td>
<td>Landmarks</td>
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<td>19.</td>
<td>Other waterfront physical features</td>
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<td>20.</td>
<td>Other waterfront cultural features</td>
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<td>24.</td>
<td>Planetary contours</td>
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<td>25.</td>
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<td>26.</td>
<td>Contours in General</td>
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<td>27.</td>
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<td>Other Physical Features</td>
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<td>Other Cultural Features</td>
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<td>42.</td>
<td>Field Inspection Photographs</td>
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<td>43.</td>
<td>Forms</td>
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<td>44.</td>
<td>Reviewer</td>
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<td>Date</td>
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**Reviewer:** Charles H. Bishop  
**Date:** 3-14-70  
**Supervisor:** Albert C. Rauck, Jr.

**Remarks:**
Field Edit Applied From - Field Edit Ozalid  
Field Edit Cronaflex Print  
Photographs 69L 6222 thru 69L 6225  
69L 6220, 69L 6202
FIELD EDIT REPORT
TP 00038
GRAND BATOU
PH 6902
LAKE BORNE, MISSISSIPPI-LOUISIANA

52. ADEQUACY OF COMPILATION

Compilation was adequate considering no previous field inspection. A large number of piers, piling, groins and storm drains were omitted during compilation and are delineated on the cronaflex print.

Several measurements were made to MHWL from selected photo points. It should be noted that the foreshore area is generally flat and the MHWL is subject to continuous change due to the profile of the foreshore area and local wind conditions.

54. RECOMMENDATIONS

None.

56. LANDMARKS AND AIDS TO NAVIGATION

Five landmarks were recommended for charting; their positions were located during compilation and field verified. No aids to navigation appear on this sheet.

57. ADDITIONAL INFORMATION

Field edit notes appear on the following color prints: 69L6222, 69L6223, 69L6224, 69L6225, 69L6220 and 69L6202. Field edit notes were made in violet ink on the photographs, ozalid and cronaflex copies of the manuscript. All corrections to the manuscript were indexed on the ozalid copy. All triangulation stations were recovered and a Form 526 submitted for each.

Respectfully submitted,

Dale M. Fuller
Survey Technician, October, 1970

Roger P. Hewitt
LTJG/NOAA
Chief, Photo Party 61
**CHARTING NAME** | **DESCRIPTION** | **LATITUDE** | **LONGITUDE** | **METHOD AND DATE OF LOCATION** | **CHARTS AFFECTED** |
---|---|---|---|---|---|
SPIRE | Spire, wood ht: 66(78) | 30 16.6 | 89 22.4 | Verified 10/1/70 | 876SC 1268 |
TANK | Tank, steel ht: 198(168) | 30 18.4 | 89 20.6 | Verified 10/1/70 | 876SC 1268 |
TANK | Tank, steel ht: 191(151) | 30 17.1 | 89 22.5 | Verified 10/1/70 | 876SC 1268 |
TANK | Tank, steel Ht: 140(160) | 30 19.5 | 89 20.3 | Verified 10/1/70 | 876SC 1268 |
TANK | Tank, steel, HANCOCK GENERAL HOSPITAL, ht: 132(153) | 30 19.5 | 89 20.2 | Verified 10/1/70 | 876SC 1268 |
**NOAA FORM 76-40**

**U.S. DEPARTMENT OF COMMERCE—NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION**

**PHOTOMETRY INSTRUCTION NO. 64.**

**ORIGINATING ACTIVITY**
- FIELD INSPECTION
- FIELD EDIT
- COMPILATION
- FINAL REVIEW
- QUALITY CONTROL AND REVIEW

**TO BE CHARTED**

**COASTAL MAPPING DIVISION, NORFOLK, VA**

**DATE**

**March 1970**

The following objects have been inspected from seaward to determine their value as landmarks:

(See reverse for responsible personnel)

<table>
<thead>
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<th>JOB NUMBER</th>
<th>SURVEY NUMBER</th>
<th>DATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHOD AND DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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<tbody>
<tr>
<td>PH-6902</td>
<td>TP-00038</td>
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<td>SPIRE</td>
<td>Spire, (wood) ht: 66(78)</td>
<td>37.38</td>
<td>26.77</td>
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<td></td>
<td>TANK</td>
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<td>25.68</td>
<td>36.54</td>
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<td>Tank, (steel) ht: 131(151)</td>
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<td>31.17</td>
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<td>TANK</td>
<td>Tank, (steel) ht: 140(160)</td>
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<td>28.36</td>
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<td></td>
<td></td>
<td>TANK</td>
<td>Tank, (steel) Hancock General Hospital, ht: 133 (153)</td>
<td>30.41</td>
<td>14.32</td>
<td>69L(c) 6251 10/16/69 10/1/70 876SC 1268</td>
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</tbody>
</table>
REVIEW REPORT TP-00038

SHORELINE

JANUARY 29, 1974

61. GENERAL STATEMENT:

See summary on page six (6) of this Descriptive Report.

An ozalid comparison print is bound with the original of the Review Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with Survey T-9379 S/2, 1:10,000 scale, dated August 1956 and with Survey T-9788, 1:20,000 scale, dated September 1956. No attempt was made to show cultural differences, many of which were caused by Hurricane Camille in August, 1969. No large shoreline differences were noted. Small differences were considered insignificant because in this area shoreline is normally changeable by wind and storm action.

At the north edge of this map, land development has caused the addition of numerous canals in the area between Bayou La Croix and Joes Bayou.

TP-00038 supersedes previous topographic surveys for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS Quadrangles WAVELAND, MISS., and BAY ST. LOUIS, MISS., both 1:10,000 scale and both dated 1956. The USGS maps are copies of the C & GS maps. Therefore, differences with TP-00038 are the same.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with boat sheets for surveys H-9177 and H-9199, both 1:10,000 scale and both dated 1970. Three piles, which are not visible on the photographs, were shown of the comparison print in purple. There were no other significant differences.
65. **COMPARISON WITH NAUTICAL CHARTS:**

A visual comparison was made with Chart 876-SC, 1:40,000 scale, 8th edition, dated Nov., 1972 and 878-SC, 1:40,000 scale, 7th edition, dated Aug., 1973. Many differences in cultural features along the shore were noted. The more significant of these were shown on the comparison print in red.

66. **ADEQUACY OF RESULTS AND FUTURE SURVEYS:**

This map complies with Project Instructions and meets the requirements for National Standards of Map Accuracy.

Reviewed by:

[Signature]
Charles H. Bishop
Cartographer

Approved for forwarding:

[Signature]
Jeffrey G. Carlen, CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:

[Signature]
Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch   Chief, Coastal Mapping Division
Not visible on photos

Charted items in red are not visible on photographic used for compilation.

COMPARISON PRINT

Red = Chart 878 SC
Purple = H-9199
Waveland

Charted items in red are not visible on photographs used for compilation.

Comparison Print

Red = Chart 876 SC
Purple = H-9177