U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: GRAPHIC TRIANGULATION
Field No.: U  Office No.: 70152

LOCALITY
State: Mississippi
General locality: Mississippi Sound
Locality: Cat Island

Project Ph-l(45)

1946

CHIEF OF PARTY

E.L. Jones - Ross A. Gilmore

LIBRARY & ARCHIVES

DATE
Each Topographic and Graphic Control Sheet, and each Air Photographic Drawing should be accompanied by this form, completed so far as practicable, when forwarded to the Washington office.

Registry No. ........................................

Field No. ............................ U

Scale ..................................... 1:40,000

State .............................................. Mississippi

General locality ...................................... Mississippi Sound

Specific locality ...................................... Cat Island

Dates: Survey began .......................... 25 February 1946

Completed ........................................ 20 March 1946

Photography ........................................... Supplemented by ground surveys to

Project No. ......................................... Ph-l(45)

Instructions dated .......................... 7 Dec. 45; 28 Dec. 45; 5 Jan. 46; 31 Jan. 46

Vessel .................................................

Party ................................................. Shore Party

Chief of party ...................................... E. H. Jones - Rose A. Gilmore

Field work by ....................... E. H. Taylor

Office work by ............................. E. H. Taylor and Frank J. Lesslie

Final inking by .................................... Frank J. Lesslie

Ground elevations ..................................... in feet above

Treetop elevations ..................................... M. H. W.

or ..............................................

Contours ..............................................

Approximate contours .................. by Planetable

Multiplex .............................................. Interval ....................................... ft.

Form lines .............................................

Remarks ..............................................

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PROJECT:  Ph-1(45)

DATUM:  N A 1927

DATE OF INSTRUCTIONS:  7Dec45; 28Dec45; 5 Jan46; 31Jan46

DATE OF FIELD WORK:  25 Feb. - 20 March 1946

PURPOSE:  To locate existing aids to navigation and make major
topographic revisions of the shoreline and adjacent detail.

METHODS:  There are no permanent fixed aids to navigation (steel
or masonry structures) on this sheet requiring third-order
triangulation location.

The positions of all fixed aids to navigation formerly located
by triangulation were verified by planetable cuts before using
as control on this sheet.

All existing non-permanent fixed aids to navigation were located
on the sheet by three or more planetable cuts, except the following:

Cat Island Range Front Light - by three-point sextant
fix with check angle.

Cat Island Range Rear Light - located by planetable cut
and taped distance from Cat Island Range Front Light.

The field observations for the location of these aids is
in Field Observation Record, Vol. 4, page 33.

All existing floating aids to navigation were located on sheet
by three-point sextant fixes with check angles, except the following
which were located by planetable cuts:

Marianne Channel lighted buoy 7
Pass Marianne lighted buoy 4

The field observations for buoys located by sextant fixes
are in Field Observation Records as follows: Vol. 4, pages
26-46; Vol. 8, pages 36-51.

There were no aerial photographs for the area covered by this sheet.
A visual check was made on planimetric map No. T-5325 for major topo-
graphic changes as required by the instruction.  The remainder of the
sheet was not covered by planimetric maps.

HORIZONTAL CONTROL:  Triangulation stations not needed in the course
of work on this project have not been plotted on the sheet in accordance
with the Instructions.
The following recovery notes are submitted for only the stations
recovered during field work:

Merril Shell Bank Light, 1903 (lost)
Cat Island Lighthouse, 1903
Merril Coquille Light, 1934
Pass Christian Light No. 2, 1934
Pass Christian Light No. 1, 1934
Pass Christian Light No. 4, 1934 (lost)
Long Beach, Water tank, 1930
Pass Christian, Grey Castle Hotel tank, 1930
Henderson, 1917
Henderson, Etc., 1930
Bay St. Louis, municipal water tank, 1931
Pass Christian, Inn by the Sea, tank, 1931
Gulfport, Mississippi Power Co., Stack, 1910
Gulfport, West Pier, water tank (U.S. Navy), 1943
Gulfport, Great Southern Land Company, Tank, 1930

VERTICAL CONTROL: Recovery of vertical control was not required.

LANDMARKS: A complete landmark inspection was made for the area
covered by this sheet.

The positions of new landmarks recommended for charting and listed on
form 567 are shown on the sheet.

Landmarks have been reported on form 567 by areas in accordance with
instructions, and are submitted in Special Report, Project Ph-1(45)
New Orleans, La - Biloxi, Miss. Area.

GEOGRAPHIC NAMES: No systematic investigation of geographic names
was required. New names and discrepancies with existing charted
names were obtained during the course of field work has been made the
subject of a special report and submitted by areas. This sheet is
covered in Special Report, Project Ph-1(45) New Orleans, La - Biloxi,
Miss. Area/

BRIDGES: There are no bridges on this sheet.

COAST PILOT: Coast pilot additions and corrections were obtained
during the course of the field work and are submitted in Special
Report, Project Ph-1(45), New Orleans, La. - Biloxi, Miss. Area.

DISCREPANCIES: AIDS TO NAVIGATION: The discrepancies as listed on the
sheet attached to this report (in back) were noted in the field with
the published descriptions of aids to navigation in the Light List or
on Nautical Charts in the area covered and were reported to the Director
in accordance with instructions.

TOPOGRAPHIC CHANGES: There were no major topographic changes in the
area covered by this sheet for the topography shown on planimetric
map No. T-5325. Neither were there any major topographic changes
that would be significant on a 1:40,000 scale chart.

Approved and Forwarded:

Respectfully submitted

Dale L. Schuerer, Ch. of Subparty
Ross A. Gilmore, Ch. of Party.
Edward H. Taylor
Engineering Aid
<table>
<thead>
<tr>
<th>AID TO NAVIGATION LOCALITY</th>
<th>LIGHT LIST PAGE</th>
<th>SHOWN ON CHART NO.</th>
<th>CHECKED IN FIELD</th>
<th>LAT. LONG. O.</th>
<th>REMARKS</th>
</tr>
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<tbody>
<tr>
<td>MISSISSIPPI SOUND</td>
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<td></td>
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</tr>
<tr>
<td>Grand Island</td>
<td></td>
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</tr>
<tr>
<td>Channel Buoy 15</td>
<td>173</td>
<td>-</td>
<td>14Mar46</td>
<td>30-10.8</td>
<td>Non-existent, listed, not charted to 89-10.2</td>
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<tr>
<td>Grand Island</td>
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<tr>
<td>Channel Buoy 14</td>
<td>173</td>
<td>1268</td>
<td>do.</td>
<td>30-10.7</td>
<td>Non-existent, listed, charted to 89-20.0</td>
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<tr>
<td>Grand Island</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel Buoys S1, S3, S5, S6, S7, S9, S10, S11, S12, S13</td>
<td>173</td>
<td>-</td>
<td>do.</td>
<td>30-10.6</td>
<td>In existence, listed, not charted to 89-10.2 except by Note: &quot;Marked by intermediate aids&quot; to 89-20.0</td>
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<td>Marianne Channel</td>
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<tr>
<td>Buoys 14, 19, 35</td>
<td>172</td>
<td>-</td>
<td>do.</td>
<td>30-12.8</td>
<td>Non-existent, listed, not charted to 89-15.0</td>
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<td></td>
<td>do.</td>
<td>30-12.5</td>
<td>Non-existent, listed, charted to 89-15.2</td>
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<tr>
<td>Buoy 15</td>
<td>172</td>
<td>1268</td>
<td></td>
<td>30-12.8</td>
<td>Non-existent, listed, not charted to 89-15.2</td>
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<td>Marianne Channel</td>
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<tr>
<td>Buoy 12</td>
<td>172</td>
<td>-</td>
<td>do.</td>
<td>30-12.8</td>
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<td>Marianne Channel</td>
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<td>Buoys S8, S11, S18, S20, S22, S25, S24, S26, S30, S31, S32, S34, S36, S38</td>
<td>172</td>
<td>-</td>
<td>do.</td>
<td>30-12.8</td>
<td>In existence, listed, not charted to 89-15.2 except by Note: &quot;Marked by intermediate aids&quot; to 89-18.2</td>
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<td>Cat Island Buoy 5, 7</td>
<td>788*</td>
<td>1268</td>
<td>8Mar46</td>
<td>30-14.0</td>
<td>Non-existent, listed, charted to 89-07.1</td>
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<td>Cat Island Beacon</td>
<td>172</td>
<td>1268</td>
<td>15Mar46</td>
<td>30-13.9</td>
<td>Listed as beacon Charted as tower to 89-09.7</td>
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<tr>
<td>PASS MARIANNE</td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Buoy 4, 6A, 9B</td>
<td>788*</td>
<td>-</td>
<td>4Mar46</td>
<td>30-15.4</td>
<td>Non-existant, listed, charted to 89-15.0</td>
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<td>Buoy 8, 8</td>
<td>174</td>
<td>-</td>
<td>4Mar46</td>
<td>30-14.6</td>
<td>In existence, listed, not charted to 89-14.5</td>
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<tr>
<td>Buoy 2A</td>
<td>506*</td>
<td>-</td>
<td>6Mar46</td>
<td>30-14.8</td>
<td>Non-existent, listed, charted</td>
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* 1945 Light List "Atlantic & Gulf Coast"
7015 b

Graphic Control

Diagram No. 1268-2

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: Graphic Triangulation

Field No.: V  Office No.: 7015 b

LOCALITY

State: Mississippi
General Locality: Mississippi Sound
Locality: St. Louis Bay

Project Ph-1(45)
1946

CHIEF OF PARTY
E.L. Jones - Ross A. Gilmore

LIBRARY & ARCHIVES

DATE: July 3, 1946
Each Topographic and Graphic Control Sheet, and each Air Photographic Drawing should be accompanied by this form, completed so far as practicable, when forwarded to the Washington office.

Registry No. ..........................................................
Field No. .............................................................
Scale ................................................................. 1:20,000

State ................. Mississippi .................................. General locality .......... Mississippi Sound

Specific locality .... St. Louis Bay ................................


Photography .................., Supplemented by ground surveys to

Project No. Phc-1(45) .... Instructions dated .......... 7 Dec. 45; 28 Dec. 45; 5 Jan. 46; 31 Jan. 46

Vessel Party or Shore Party .......... Chief of party .......... R. L. Jones - Ross A. Gilmore

Field work by .......... G. Murphy ........ Office work by .......... H. C. Murphy

Final inking by .......... I. I. Reberstein

Ground elevations .......... in feet above .......... M. H. W.
Treetop elevations .......... in feet above ..........

Contours .......... by .......... Planetable Multiplex
Approximate contours .......... Interval .......... ft.
Form lines ..........

REMARKS

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PROJECT: Ph-1(45)

DATUM: NA 1927

DATE OF INSTRUCTIONS: 7 Dec 45; 28 Dec 45; 5 Jan 46; 31 Jan 46

DATE OF FIELD WORK: 11 - 23 February 1946

PURPOSE: To locate existing aids to navigation and make major topographic revisions of the shoreline and adjacent detail.

METHODS: There are no permanent fixed aids to navigation (steel or masonry structures) on this sheet requiring third-order triangulation location.

There are no fixed aids to navigation formerly located by triangulation in the area covered by this sheet.

All existing non-permanent fixed aids to navigation were located on the sheet by three or more planetary cuts, except Jourdan River Beacon 5 which was located by two planetary cuts and checked with sextant angle at the aid. This angle is recorded in Field Observations Record Vol. 8, Page 4.

There are no floating aids to navigation in the area covered by this sheet.

There were no aerial photographs or planimetric maps for the area covered by this sheet.

HORIZONTAL CONTROL: Triangulation stations not needed in the course of work on this project have not been plotted on the sheet in accordance with the instructions.

The following recovery notes are submitted for only the stations recovered during the field work:

St. Louis, 1931
Bay St. Louis, Church Bell Tower, 1909
Bay St. Louis, St. Stanislaus College, Highest Cupola, 1909
Henderson, Eclectic, 1931
Pine Hills, 1931
Pass Christian, Inn by the Sea, tank, 1931
Bay St. Louis, Municipal tank, 1931

VERTICAL CONTROL: Recovery of vertical control was not required.

LANDMARKS: A complete landmark inspection was made for the area covered by this sheet.

The positions of new landmarks recommended for charting and listed on form 5/67 are shown on the sheet. Landmarks verified are also shown.
Landmarks have been reported on form 567 by areas in accordance with instructions, and are submitted in Special Report, Project Ph-1(45) New Orleans, La. - Biloxi, Miss. Area.

GEOGRAPHIC NAMES: No systematic investigation of geographic names was required. New names and discrepancies with existing charted names obtained during the course of field work have been made the subject of a special report and submitted by areas. This sheet is covered in Special Report, Project Ph-1(45) New Orleans, La. - Biloxi, Miss. Area.

BRIDGES: The following discrepancies were noted in the field with the bridge data published in List of Bridges over Navigable Waters of the United States, edition of 1941:

St. Louis Bay - page 408 - Louisville and Nashville R.R. West channel span - horizontal clearance 74 feet instead of 76.8 feet as listed; vertical clearance 4.1 feet at 1530 April 2, 1946. East channel span - horizontal clearance 49 feet instead of 74. feet. This channel is obstructed by a low overhead cable when bridge is open. All traffic is directed to west span.

St. Louis Bay - page 408 - Hancock and Harrison counties (U.S. route 90 highway) West channel span 79 feet instead of 86; East channel span 71 feet instead of 80 feet. All traffic directed to west channel.

DISCREPANCIES: AIDS TO NAVIGATION: There were no discrepancies noted in the field with the published descriptions of the aids to navigation in the Light List or on Nautical Charts.

TOPOGRAPHIC CHANGES: The following major topographic changes were made in the field by stadia method and are shown on the sheet:

The area adjacent to Triangulation Station Pass Christian, Inn by the Sea, tank, 1931 has been filled in, a steel and concrete bulkhead and two docks constructed. In this immediate vicinity is the Pass Christian U. S. Maritime Commission Cadet training School.

MAGNETIC MERIDIAN: No magnetic meridian was obtained on the sheet because no triangulation station was occupied that would not have local attraction.

Respectfully submitted
Herschel G. Murphy
Photogrammetric Aid.

Approved and forwarded:

Dale F. Sturmer
Dale F. Sturmer, Ch. of Subparty

Ross A. Gilmore, Chief of Party