

7018 a-b

Graphic Control

T-7018 a+b G.C.

Diag. Cht. No. 1266-2

7018 a-b

Graphic Control

Form 504	
U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey <u>Graphic Triangulation</u>	
Field No. <u>"L" & "M"</u> Office No. _____	
LOCALITY	
State <u>Alabama</u>	
General locality <u>Mobile Bay</u>	
Locality <u>Mobile Bay Entrance - Pass</u>	
Aux Herons	
<u>1946</u>	
CHIEF OF PARTY	
<u>Ross A. Gilmore</u>	
LIBRARY & ARCHIVES	
DATE <u>July 3, 1946</u>	

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

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.

77018a
Graphic Control

7018a

REGISTRY No.

Field No. "L"

Scale 1-30,000

State Alabama General locality Mobile Bay

Specific locality Mobile Bay Entrance

Dates: Survey began 5 April 46 Completed 12 April 46

Photography 18 May 1945 Supplemented by ground surveys to 12 April 46
7 Dec 45; Sup. 1, 28 Dec 45; Sup. 2
Project No. Ph-1 (45) Instructions dated 5 Jan 46; Sup. 3, 31 Jan 46.

Vessel } or Shore Party Chief of party Ross A. Gilmore

Party }
Field work by Boynton Locke Jr. Office work by Boynton Locke Jr.

Final inking by I. I. Saperstein

Ground elevations } in feet above { M. H. W.
Treetop elevations } or {

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

REMARKS

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

77018 b

TOPOGRAPHIC TITLE SHEET

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.

7018 b

Registry No. _____

Field No. "M" _____

Scale 1-20,000 _____

State Alabama _____ General locality Intracoastal Waterway _____

Specific locality Confluence of Mississippi Sound and Mobile Bay _____

Dates: Survey began 5 April 46 _____ Completed 12 April 46 _____

Photography 18 May 1945 _____ Supplemented by ground surveys to 12 April 46 _____

Project No. Ph-1 (45) _____ Instructions dated 7 Dec 45; Sup.1, 28 Dec 45; Sup. 2, 5 Jan 46; Sup.3, 31 Jan 46 _____

Vessel } or Shore Party _____ Chief of party Ross A. Gilmore _____
Party }

Field work by Boynton Locke _____ Office work by Boynton Locke _____

Final inking by I.I. Saperstein _____

Ground elevations } in feet above { M. H. W.
Treetop elevations } or { _____

Contours } by { Planetable } Interval _____ ft.
Approximate contours } Multiplex }
Form lines } _____ }

REMARKS _____

DESCRIPTIVE REPORT TO ACCOMPANY
TOPOGRAPHIC SHEET FIELD LETTER "L"

PROJECT: Ph-1 (45) DATE OF INSTRUCTIONS: 7Dec45; Sup. 1,
28Dec45; Sup. 2, 5Jan46; Sup. 3, 31Jan46.

DATUM: N A 1927 DATE OF FIELD WORK: 5 April 1946-12 April 1946

PURPOSE:

To locate existing aids to navigation and make major topographic revisions of the shore line and adjacent detail.

METHODS:

There are no permanent fixed aids to navigation (steel or masonry structures) on this sheet requiring 3rd 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 Pelican Bay Beacon 2, which was located by a 3-point sextant fix and Pensacola-Mobile Lt. 277, which was located by a 3-point planetable resection fix with a check cut from Ft. Gaines and a sextant fix.

All range lines were obtained by setting the planetable up on one of the range lights involved, sighting on the other and drawing a cut.

A submarine cable exists as charted on Chart 1266 between Mobile Pt. (Fort Morgan) and Sand Island Light. The cable between Mobile Pt. and Fort Gaines also exists. A sextant fix position was determined on the cable sign at Fort Morgan and is shown on the sheet. No cable area sign exists at Fort Gaines. From Fort Gaines the cable runs in a NW'ly direction just off Little Dauphin I. to Heron Bay Lt. 18 just east of Pass Aux Heron Range A Front Lt., thence to Cedar Pt. This end of the cable is unmarked. The approximate location of the above cable is indicated by a dashed pencil line on the sheet.

Pensacola-Mobile Buoys 269, 272, 276, 278 and Spit Buoy 1 are located by 3-point sextant fixes with a check angle. Mobile Channel Buoy S11 and S9 (the latter also with two planetable cuts) are located by three point sextant fixes. All sextant fixes are recorded in Field Observation Records, Vol. 11, pages 1 to 5, inclusive. All other floating aids are located by three planetable cuts.

Field inspection of shore line and adjacent detail was made on photographs 45C-2903 to 2908, 3286 to 3293 and 2888 to 2893 and have been discussed in Special Report, Project Ph-1 (45), Pensacola Bay Entrance to East End of Mississippi Sound Area.

Three point resection fixes "CAN" and "PEL" were made on Sand I. and Pelican I., respectively, and the corresponding points pricked on photos 45C3287 and 3291. Δ Sand I. L.H., Δ Heron, Δ Peggy, Δ Cedar 2 and Pass Aux Herons Front Ranges A and B were also picked for photograph control where the topographic changes are greatest.

Where shore line was field inspected and shown on the photographs it has been made with an accuracy of .5 millimeter of true position.

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;

Δ Ft. Morgan 1846	Δ Peggy 1935
Δ Ft. Gaines 1908	Δ Cedar 2, 1935
Δ Sand I. L.H. 1930	Δ Heron 1935

VERTICAL CONTROL:

Recovery of vertical control not required.

LANDMARKS:

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

Landmarks have been reported on form 567 by areas in accordance with instructions, and are submitted in Special Report, Project Ph-1 (45), Pensacola Bay Entrance to East End of Mississippi Sound Area. *Chart letter 238 (1946)*

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 has been made the subject of a special report and submitted by areas. This sheet is covered by Special Report, Project Ph-1 (45), Pensacola Bay Entrance to East End of Mississippi Sound Area. *Chart letter 238 (1946)*

BRIDGES:

There are no bridges in the area covered by 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), Pensacola Bay Entrance to East End of Mississippi Sound Area. *Chart letter 238 (1946)*

DISCREPANCIES: AIDS TO NAVIGATION

Discrepancies, noted in the field, with the published description of aids to navigation in the Light List or on Nautical Charts in the area covered, were reported by letter to the Director in accordance with instructions, a copy of which is enclosed. *Chart letter 221 (1946)*

The following fixed aids to navigation formerly located by triangulation and within the area covered by this sheet are non-existent:

Mobile Channel Beacons 4, 6 and 8. Mobile Channel Beacons 10 and 12, while apparently in position, as closely as can be determined with planetable, are actually Lights 10 and 12, respectively.

TOPOGRAPHIC CHANGES:

The following major topographic changes fall within the area covered by this sheet:

Several islands consisting of oyster shells and sand with some grass and bushes and projecting in some places as much as 10 to 12 feet above M.H.W., lie between North Pt. (APEGGY, 1935) and Cedar Pt. (CEDAR 2, 1935), also there is considerable and constant change in the region of the sandy islands of Pelican I. (OPel) and Sand I. (OCan). Photos covering these areas are field and shore line inspected and numerous points are pricked for photograph control as stated in paragraph under METHODS.

Submitted by:

Boynton Locke, Jr.
Boynton Locke, Jr.
Topographic Engineer

Approved and forwarded:

Ross A. Gilmore
Ross A. Gilmore
Chief of Party

DESCRIPTIVE REPORT TO ACCOMPANY
TOPOGRAPHIC SHEET FIELD LETTER "M"

PROJECT: Ph-1 (45) DATE OF INSTRUCTIONS: 7Dec45; Sup. 1,
28Dec45; Sup. 2, 5Jan46; Sup. 3, 31Jan46.

DATUM: N A 1927 DATE OF FIELD WORK: 5 April 1946-12 April 1946

PURPOSE:

To locate existing aids to navigation and make major topographic revisions of the shore line and adjacent detail.

METHODS:

There are no permanent fixed aids to navigation (steel or masonry structures) on this sheet requiring 3rd order triangulation location.

There were no fixed aids formerly located by triangulation on this sheet.

All existing non-permanent fixed aids to navigation were located on the sheet by three or more planetable cuts, except Heron Bay Lights 1 and 3, which were located by three point sextant fixes with check angles and recorded in Field Observations Record, Vol. 11, page 4.

All range lines were obtained by planetable from one of the lights of the range after that light was located.

All existing floating aids to navigation were located on the sheet by three planetable cuts.

Photographs in the area covered by this sheet are also included in the area covered by sheet "L" and field inspection and shore line are discussed in paragraphs under METHODS and TOPOGRAPHIC CHANGES of the report accompanying sheet "L".

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:

Δ CEDAR 2, 1935	Δ MID 3, 1935
Δ PEGGY, 1935	Δ GILL, 1935 (lost)

VERTICAL CONTROL:

Recovery of vertical control not required.

LANDMARKS:

There are no objects suitable for charting as landmarks in the area covered by this sheet.

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), Pensacola Bay Entrance to East End Mississippi Sound Area.

Chart letter 238 (1946)

BRIDGES:

There are no bridges in the area covered by 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), Pensacola Bay Entrance to East End Mississippi Sound Area.

Chart letter 238 (1946)

DISCREPANCIES: AIDS TO NAVIGATION

Discrepancies, noted in the field, with the published description of aids to navigation in the Light List or on Nautical Charts in the area covered, were reported by letter to the Director in accordance with instructions, a copy of which is enclosed.

Chart letter 221 (1946)

TOPOGRAPHIC CHANGES:

There are several topographic changes in the area covered by this sheet but they are also covered by sheet "L" and are discussed in paragraphs under METHODS and TOPOGRAPHIC CHANGES of the report accompanying that sheet.

Submitted by

Boynton Locke, Jr.

Boynton Locke, Jr.
Topographic Engineer

Approved and forwarded.

Ross A. Gilmore

Ross A. Gilmore
Chief of Party

Chart letter 221 (1946)

DISCREPANCIES IN DESCRIPTIONS
AIDS TO NAVIGATION
PENSACOLA BAY ENTR. to E. END MISSISSIPPI SOUND
Project Ph-1 (45)
15 April 1946

AID TO NAVIGATION LOCALITY	LIGHT LIST PAGE	SHOWN ON CHART NO.	CHECKED IN FIELD	LAT. LONG. ° ' "	REMARKS
PENSACOLA MOBILE Buoys 163, 165, 168, 169, 171, 172, 173, 175, 177, 179, 180, 181, 183, 186, 189, 193, 195, 198, 201, 203, 205, 206, 207, 209, 210, 211, 213, 218, 219, 221, 222, 225, 233, 234, 257, 259, 261, 263, 262, 267.	166* 167* 168*	-	1Apr46 IIS	30-17.0 87-46.7 to 30-15.9 87-57.8	In existence, listed not charted.
228	167*	-	1Apr46 IIS	30-17.0 87-52.6	In existence on wrong side of chann- el, listed not charte
Red Spar	-	-	1Apr46 IIS	30-17.0 87-52.7	In existence but not numbered, not listed not charted
Buoys 167, 185, 187, 191, 194, 197, 199, 215, 217, 223, 227, 229, 231, 235, 237, 239, 241, 242, 243, 244, 245, 247, 249, 250, 251, 253, 254, 255,	166* 167* 168*	-	1Apr46 IIS	30-17.0 87-46.1 to 30-16.7 87-56.0	Non-existent, listed not charted.
Black Spar	-	-	1Apr46 IIS	30-17.0 87-47.5	In existence but not numbered, not listed not charted.
Buoy 238	167*	1266	1Apr46 IIS	30-17.0 87-53.7	Non-existent listed
Buoy 248	168*	1266	1Apr46 IIS	30-17.0 87-54.9	charted
271, 273, 275, 277.	168*	-	4Apr46 BL	30-15.9 87-58.0 to 30-15.5 87-58.9	Non-existent, listed not charted
Pass Aux Herrons: Light 2	168*	1266	4Apr46 BL	30-17.0 88-04.9	Non-existent, listed charted.
Buoy 18A.47	-	-	4Apr46 BL	30-17.6 88-07.2	In existence, not listed, not charted
Black Spar	-	-	4Apr46 BL	30-16.1 88-10.9	In existence but not numbered, not listed not charted.

Chart letter 221 (1946)

DISCREPANCIES IN DESCRIPTIONS
AIDS TO NAVIGATION
PENSACOLA BAY ENTR. to E. END MISSISSIPPI SOUND
Project Ph-1 (45)
15 April 1946

AID TO NAVIGATION LOCALITY	LIGHT LIST PAGE	SHOWN ON CHART NO.	CHECKED IN FIELD	LAT. LONG. ° ' "	REMARKS
MOBILE BAR: Buoy 9A	-	1266	4Apr46 BL	30-10.8 88-02.8	In existence, not listed, charted.
Lighted Buoy 12A	-	1266	4Apr46 BL	30-12.8 88-02.2	In existence, not listed, charted.
Lighted Buoy 13	-	1266	4Apr46 BL	30-12.2 88-02.7	In existence, listed as can, charted correctly.
White NUN	-	-	4Apr46 BL	30-12.1 88-03.4	In existence, not listed, not charted.
MOBILE CHANNEL: Lt. 3	-	1266	4Apr46 BL	30-15.8 88-02.3	Non-existent, not listed, charted
Buoy 7	784	-	4Apr46 BL	30-17.9 88-02.0	Non-existent, listed not charted.
Light 8	492	1266	4Apr46 BL	30-18.4 88-01.8	Temporarily replaced by lighted buoy.
Buoy 11	784	-	4Apr46 BL	30-20.1 88-01.7	In existence, listed not charted.
Lt. 7	-	1266	4Apr46 BL	30-17.9 88-02.0	In existence, not listed, charted.
HERON BAY: Lt. 1 & 3	-	1266	4Apr46 BL	30-19.9 88-08.6 30-20.7 88-08.0	In existence, not to listed, charted.

* 1945 Light List, "Intracoastal Waterway"
All others refer to Light List "Atlantic & Gulf Coasts"

Cppy chkd by J.M.T.