

4023
4023a.

4023 = 4023A

Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: *Alabama*

11-5613

DESCRIPTIVE REPORT.

Hyd. Sheet No. *4023*
4023A

LOCALITY:
Mobile Bay
Ala.


1917-18

CHIEF OF PARTY:
F. B. T. SIMMS

ADDRESS
U. S. COAST AND GEODETIC SURVEY
WASHINGTON, D. C.

REFER TO No.

5-EMK

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

LIBRARY

Place with descriptive report
of hydrographic sheet No. 4023

CHARTS

Drawing Section.

February 19, 1919.

Division of Hydrography and Topography: HCG

Division of Charts;

Tidal reductions have been approved in
21 volumes of soundings for

HYDROGRAPHIC SHEET 4023

Mobile Bay, Alabama
F.B.T. Siems and Harry Leypoldt in 1917-18.

Plane of reference is
Mean low water, reading

- 0.5 ft. on staff at Weeks Bay.
- 2.6 ft. on staff at Great Point Clear.
- 3.4 ft. on staff at Fort Morgan.
- 3.1 ft. on staff at Fort Morgan Quarantine Station.
- 3.8 ft. on staff at Alabama Port Point.

L. P. Shidy

Acting Chief, Section of
Tides and Currents.

ADDRESS
U. S. COAST AND GEODETIC SURVEY
WASHINGTON, D. C.

REFER TO NO. 5-EMK

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

LIBRARY

Place with descriptive report
of hydrographic sheet No. 4023^a

Drawing Section.

February 19, 1919.

Division of Hydrography and Topography: HCS

Division of Charts:

Tidal reductions have been approved in
5 volumes of soundings for

HYDROGRAPHIC SHEET 4023a

(Included in volumes of soundings for 4023)

Gulf Coast, Mobile Bay to Perdido Bay, Alabama
Harry Leypoldt in 1918.
(1917)

Plane of reference is
Mean low water, reading

3.4 ft. on staff at Fort Morgan.

L. P. Shady

Acting Chief, Section of
Tides and Currents.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

Draftsman's Report--Hydrographic Sheet 4023.

1. Development.

Inside the entrance, the bay is well developed, with the exception of the 4' shoal that makes out from Δ Lear, and the 15' deep that lies just beyond the shoal. The two 4' and one 6' shoals in Bon Secours Bay and the dumping ground just inside the entrance were well developed by the Launch Acacia.

The development of the outer bar is poor because of the fact that it was not done in a systematic manner. At the critical point of the whole work, i. e., the depth across the bar, there is a space approximately 500 m. long by 400 m. wide without soundings. Thus it is impossible to determine the maximum depth within 3-4 feet.

Opposite Sand I. L. Ho., in mid-channel, two 28' soundings were made. The latest Army Engineer blueprint (April 1917) shows no indication of this shoal.

According to Army Engineer blueprint, when passing thru the the channel across the outer bar, Sand I. L. Ho. should bear $358^{\circ} 13'$ true. By the sheet itself, the course should be $359^{\circ} 04'$ true. The discrepancy is due to the fact that either the Army Engineers have shifted the channel to the eastward, or to the faulty location of the channel buoys by the hydrographic party.

2. Crossings.

The work of the L. Acacia in Bon Secours Bay does not cross well with the ship work. The Acacia work extending SSW from Mobile Pt. crosses well with the other work.

3. Records.

The records are well kept and legible. No effort was made by the ship party to comply with Paragraph 295(a) General Instructions which states that the beginning and end of each line should be located in the notes by reference to some known point.

Respectfully submitted,

E. K. Ellis.

Draftsman.

S. L. Rosenberg.

2 - 28 ft. sdgs. mentioned above, rejected. 11 ft. sdg. ~~located~~ ^{located} by no mention made as to whether they were extremely doubtful & should be rejected. ~~located~~ ^{located} by no mention made as to whether they were permanent or not & they were plotted.

Long. ~~located~~ ^{located} $88^{\circ} 00' 20''$ Lat. $15^{\circ} 32''$

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

Draftsmans Report--Hydrographic 4023^a.

The area covered by this sheet has been evenly but not closely enough developed. It is not possible to draw the 30 foot curve, which is the most important one, with any degree of accuracy.

The work around the Entrance has been replotted on Hyd. 4023.

In the sounding records Hyd. 4023^a is not distinguished from Hyd. 4023, all the volumes being marked 4023. The following is the work that is plotted on Hyd. 4023^a:

Ship Work:-	Launch 51 :-
60 M--115M	50 n--75n
1N----6N	1,0---68,0
90N---110N	
1,0---25,0	
1P----158P	
1Q----162Q	
1R----77R	

Respectfully submitted,

E. K. Ellis.

Draftsman.

*I consider this an adequate development of area covered.
S. L. Rosenberg, verifier.*

AND REFER TO NO. 41/VFB

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON March 30, 1922.

To: Chief, Section of Field Records.
From: E. A. LeLacheur, Computer, Division of Tides and Currents.
Subject: Investigation of Soundings on Mobile Bay, Ala., Charts.

Together with Mr. L. A. Cole of the Division of Tides and Currents, I have made an investigation of the soundings shown on Charts 1266 and 188, covering Mobile Bay, Alabama.

Chart 1266, issued in 1921, is based upon surveys made in 1917 and 1918 by the field parties of Captains Siems and Leypoldt. The 41 volumes of sounding records accompanying Hydrographic Sheets 4023 and 4024 appear to have been correctly reduced and the reduced soundings represent proper depths.

Chart 188, issued in 1909 and reissued in 1916 shows soundings which have been taken from the original surveys of 1849, 1850 and 1851 made by Lieutenants Patterson and Alden. These soundings are recorded and plotted on Hydrographic Sheets 215, 227 and 263, and also appear to have been correctly reduced, from a study of the tidal data which we have covering the years mentioned. The plane of reference on Charts 188 and 1266 is mean low water.

Although there are places in Mobile Bay where the soundings on Charts 188 and 1266 differ in depth by 2 or 2.5 feet, there are other places where the depths agree, or where differences of but one foot occur. There is no evidence to show that the plane of mean low water on Chart 188 differs from that on Chart 1266.

E. A. LeLacheur

E. A. Le Lacheur, Computer.

G. H. ...

Chief, Division of Tides and Currents

Applied to chart 873 - PWR

APPLIED TO IWW #872, Nov. 1947 A.J.H.