

6605

6605

Form 504
Rev. April 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic }
Hydrographic } Sheet No. H-6605

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

AUG 27 1941

Acc. No.

State Maryland

LOCALITY

Chesapeake Bay

Eastern Bay

193 1940

CHIEF OF PARTY

E. L. Gallen

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. H6605

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 1009

REGISTER NO. H-6605

State Maryland

General locality Chesapeake Bay

Locality Eastern Bay

Scale 1:10,000 Date of survey Sept. Oct. & Nov., 1940

Vessel Launches MITCHELL & OGDEN

Chief of Party F. L. Gallen

Surveyed by C. A. Schanck

Protracted by P.H. Andros

Soundings penciled by P.H. Andros

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by

Inked by G.R. Bryan & R.D. Goodrich

Verified by " " " " "

Instructions dated April 17, 1940

Remarks:

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet H-6605

INSTRUCTIONS

The instructions for the work covered by this report are dated April 17, 1940. The project number is HT-250.

LIMITS

H-6603 (1940)

H-6604 (1940)

The northern limits of this sheet is Lat. $38^{\circ} 54.05'$, where it joins sheet 1007 (field). On the east it extends south along the eastern shore of Eastern Bay to the south side of Woodland Creek, joining with sheet 1008 (field) at the mouths of the Wye River and Greenwood Creek. In the mouth of Miles River the limits are defined by a line extending from a point 0.1 mile south of the mouth of Woodland Creek to the point of land at Lat. $38^{\circ} 49.3'$, Long. $76^{\circ} 13.7'$. From there the southern limits are defined by the shoreline around Tilghman Point to where it joins the 1933 work of E. R. McCarthy, Registry No. 5328. Then it extends westward and northward along the limits of that survey to the eastern shore of Kent Island in the vicinity of Romancock.

SURVEY METHODS

The control for this sheet was from signals located by triangulation, air photo compilation, sextant cuts, and in a few isolated instances, by a single sextant cut, pricked at the high water line. Practically all the hydrography was controlled by positions obtained from regular sextant fixes. A few positions along the shore were located by estimated distance and directions from signals. Still fewer, near the heads of creeks, were pricked by estimation of the location with respect to the adjacent shoreline.

In the shoal inshore areas of this sheet the soundings were taken with a hand lead from a 25 foot skiff, which was propelled by outboard motors. The deeper offshore areas were sounded with an automatic depth recorder installed on the Launch OGDEN.

DISCREPANCIES

There are no known discrepancies on this sheet.

DANGERS

The water is shoal for a considerable distance offshore in all sections of this sheet, with numerous points of less than two fathoms depth extending over a mile offshore. The outstanding shoal on this sheet is in Lat. $38^{\circ} 50.1'$, Long. $76^{\circ} 12.9'$, where a small sandy bar is awash at low water. This shoal is known by local oystermen as Herring Island and was formerly a marshy island. Buoys are maintained at the north, southeast and southwest points of the shoal.

A rocky point with a least depth of 3 feet was found in Lat. 38° 50.0, Long. 76° 14.5. It is about 550 meters outside the 3 foot curve along the shore and is a menace to shallow draft boats attempting to run close inshore.

The entire sheet is of irregular bottom but in general the irregularities present no definite hazards to the type of boats that use these waters.

CHANNELS

Moderately broad deep channels lead through Eastern Bay to most of its tributaries. Along the western limits of this sheet a channel with a least depth of 20 feet leads to Cox Creek. Within the limits of this sheet 26 feet can be carried into Crab Alley Bay; 27 feet into the upper part of Eastern Bay; 36 feet to the mouth of the Miles River; and 31 feet to the mouth of the Wye River. Tilghman Creek has a buoyed channel about 25 meters wide with a least depth of 8 feet leading into it. The channel into Greenwood Creek has closed and now has a least depth of 4 feet on the bar. There is no channel into Woodlawn Creek, Porter Creek, or the creek northwest of Porter Creek.

COMPARISON WITH CHARTS AND PREVIOUS SURVEYS

In general this survey compares very closely with the older surveys of the area and chart 1225. There are a few differences worthy of attention, however. The 3 foot rocky spot found in Lat. 38° 50.0, Long. 76° 14.5 is not charted; ^{has been charted} a least depth of seven feet being shown in this area. The chart shows a least depth of seven feet in the Greenwood Creek channel, which has now shoaled as mentioned above.

A charted wreck was found in Tilghman Creek, Lat. 38° 50.32, Long. 76° 16.14, with a least depth of 4 feet over it, in a surrounding depth of nine feet. This wreck is a distinct menace to boats anchoring or turning in Tilghman Creek and should be continued on the chart.

The charted 11 foot spot in Lat. 38° 53.6, Long. 76° 13.9, could not be verified. It is believed that this depth was recorded one fathom in error on the original survey.

A thorough investigation was made of the charted 5 foot spot in Lat. 38° 52.8, Long. 76° 18.0. This shoal is no longer in existence and should be deleted from the chart.

GEOGRAPHIC NAMES

In as much as a detailed investigation of the geographic names in this area was made by the air photo compilation party, no repetition of this work was undertaken by this hydrographic party.

Submitted by,

Charles A. Schanck
Charles A. Schanck
Jr. H. & G. Engr.

Approved
F. L. Gallen
F. L. Gallen
H. & G. Engr.
Chief of Party

Review
Item 58

no name for it
L.H.

H6605

STATISTICS

Date	Day	Statute Miles	Soundings	Positions
Sept.	12	a ✓ 23.2	876	153
	13	b ✓ 27.2	874	159
	16	c ✓ 26.4	835	158
	17	d ✓ 24.5	791	146
	18	e ✓ 19.5	692	140
	Oct.	3	f ✓ 21.9	724
4		g ✓ *12.4	443	47
7		h ✓ *42.9	1540	166
9		j ✓ 26.7	853	163
10		k ✓ 28.9	828	150
11		l ✓ 24.8	738	139
14		m ✓ 184 *47.6	1736	184
15		n ✓ *42.7	1512	165
16		p ✓ 9.7	305	66
17		q ✓ *47.1	1644	171
21		r ✓ *37.4	1406	152
22		s ✓ *31.8	1149	143
23		t ✓ *41.0	1491	164
24		u ✓ *18.6	791	81
25		v ✓ *31.8	1162	117
28	w ✓ *31.7	1310	163	
29	x ✓ 18.8	640	135	
31	y ✓ 22.6	953	153	
Nov.	1	z ✓ 21.6	922	148
	2	a' ✓ 12.8	573	102
	4	b' ✓ 11.6	499	84
	5	c' ✓ 16.1	767	145
			<hr/>	<hr/>
* Depth recorder		385.0	14,465	1716
Hand lead		336.3	11,589	2009
<hr/>		<hr/>	<hr/>	<hr/>
Totals for sheet		721.3	26,054	3725

SMOOTH SHEET H-6605 (FIELD NO. 1009)

Prepared in Washington office 11-29-40.

Projection made on ruling machine.

Shore line and signals transferred in projector from
T-5708, T-5709, T-5706, T-5705 and T-5722 by R. M. S.
(1937) (1937-40)

Shore line and signals checked in projector by R. E. E.

Triangulation stations have not been plotted.

Please make this a part of the descriptive report.

B. G. Jones.

LGC
HRC.

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography~~

Aug. 30, 1941

✓ Division of Charts: Attention: Mr. H. R. Edmonston

Plane of reference approved in
9 volumes of sounding records for

HYDROGRAPHIC SHEET 6605

Locality Eastern Bay, Chesapeake Bay

Chief of Party: F. L. Gallen in 1940
Plane of reference is
1.9 ft. on tide staff at Claiborne
3.5 ft. below B. M. 1

Height of mean high water above plane of reference is 1.1 feet.

Condition of records satisfactory except as noted below:

P. Schureman
Acting Chief, Division of Tides and Currents.

GEOGRAPHIC NAMES
 Survey No. **H6605**

Name on Survey											1	
	A	B	C	D	E	F	G	H	K			
<u>Chesapeake Bay</u>												1
<u>Eastern Bay</u>												2
<u>Kent I.</u>												3
<u>Romancoke</u>												4
<u>Tilghman Pt.</u>												5
<u>Tilghman Cr.</u>												6
<u>Porter Cr.</u>												7
<u>Claiborne</u>												8
<u>Miles R.</u>												9
<u>Woodland Cr.</u>												10
<u>Wye R.</u>												11
<u>Bennett Pt.</u>												12
<u>Greenwood Cr.</u>												13
<u>Bodkin I.</u>												14
<u>Turkey Pt.</u>												15
<u>Long Marsh I.</u>												16
<u>Parson I.</u>												17
<u>Cox Creek</u>												18
<u>Crab Alley Bay</u>												19
												20
												21
												22
												23
												24
												25
												26
												27

Names underlined in red
 by La HECK on 6/29/42

Remarks

Decisions

	Remarks	Decisions
1		U.S.G.B.
2		388763
3		389763 U.S.G.B
4	P. I. of report	388763
5		388762
6		"
7		"
8	Also location of tide staff.	"
9		388762 U.S.G.B
10		388761
11		388762 U.S.G.B
12		" "
13		"
14		388762
15		389762
16	S.W. of Turkey Pt.	388763
17		389762
18		389763
19		389762
20		
21		
22		
23		
24		
25		
26		
27		

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H6605**

Records accompanying survey:

Boat sheets 1; sounding vols. ^{Vol. 1-9 lost} 9¹⁰; wire drag vols.; bomb vols.; graphic recorder rolls 10...; special reports, etc. Vol. #10 is a loose-leaf folder containing sounding records..... (3) Forms #524.....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	3725
Number of positions checked	75 — G.R.B. 291 — R.D.G.
Number of positions revised	1 — G.R.B. 3 — R.D.G.
Number of soundings recorded	2605.4
Number of soundings revised (refers to depth only)	101.4 (due to bar check corrections)
Number of soundings erroneously spaced	.58
Number of signals erroneously plotted or transferred	.0
Topographic details	Time .9
Junctions	Time .20
Verification of soundings from graphic record	Time .25

Verification by ^{G.R. Bryan} R.D. Friedrich. Total time 617 hrs. Date Jan. 4, 1944

Review by R.H. Carstens. Time .28. Date Jan. 11, 1944

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT
 PHOTOSTAT OF

No. H **H6605**
~~No. I~~

received **Aug. 27, 1941**
 registered
 verified
 reviewed
 approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
25	✓	<i>HL</i>	<i>Pages 1 and 2</i>
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	T. B. Reed
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DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6605

Field No. 1009

Maryland, Chesapeake Bay, Eastern Bay
Surveyed September - November 1940; Scale 1:10,000
Instructions dated April 17, 1940

Soundings:

Hand lead
808 Fathometer

Control:

Three-point fix on shore signals

Chief of Party - F. L. Gallen
Surveyed by - C. A. Schanck
Protracted by - P. H. Andros
Soundings plotted by - P. H. Andros
Verified and inked by - G. R. Bryan and R. D. Goodrich
Reviewed by - R. H. Carstens
Inspected by - H. R. Edmonston, January 13, 1944

1. Signals and Shoreline

The shoreline and signals originate with T-5705, T-5706, T-5708 and T-5709 of 1937; T-5722 (1939-40), T-4770 (1933), and sextant fixes of the present survey. Signals inked in green were spotted on the sheet.

2. Sounding Line Crossings

Satisfactory.

3. Submarine Relief

The usual depth curves can be satisfactorily drawn. Curves at 24 feet and 36 feet have been added.

In this area shoals from shore extend sharply into the deep water forming submarine bights and neck. Several isolated shoals rise from depths as great as 33 feet.

4. Junctions with Contemporary Surveys

A satisfactory junction was made with H-6603 (1940) on the north. On the southwest the soundings on

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO.

WASHINGTON 25



the hand lead survey of H-5328 (1933) are in places 1-2 feet greater in depth in the overlapping area and because a satisfactory agreement of curves could not be made a butt junction is shown. The junction with H-6604 (1940) in Wye River and Greenwood Creek on the east will be considered in the review of that survey. The survey of Miles River on the southeast has not been registered at this date.

5. Comparison with Prior Surveys

a. H-177 (1847-70) 1:20,000

Not available for comparison.

b. H-2464 (1899) 1:20,000
H-2465 (1899) 1:20,000

Agreement with these prior surveys is very good. General depths agree within 1-2 feet. Little change in the bottom has taken place except for erosion in the shoreline of several small islands. A rocky 3-ft. shoal not shown on the prior surveys was found in Lat. $38^{\circ}50.0'$, Long. $76^{\circ}14.5'$. The 11-ft. sounding, chart 1225, in Lat. $38^{\circ}53.6'$, Long. $76^{\circ}13.85'$ falling in present depths of about 17 feet and the 5-ft. sounding in Lat. $38^{\circ}52.8'$, Long. $76^{\circ}18.0'$ falling in present depths of about 11 feet were probably recorded 1 fathom in error and should be disregarded. Twenty-meter lines run in the area of the 16-ft. sounding, charted in Lat. $38^{\circ}51.95'$, Long. $76^{\circ}18.55'$, gave no indication of depths less than 20 feet. The 16-ft. sounding should therefore be disregarded. The present basic survey is considered adequate to supersede these prior surveys within the common area.

6. Comparison with Chart 1225 (Latest print date 9- 6-43)
550 (" " " 9-25-43)

a. Hydrography

The charted hydrography originates with the previously discussed surveys which need no further consideration.

b. Aids to Navigation

The survey positions of aids to navigation are in agreement with the charted positions and

satisfactorily mark the features intended.
The light in Lat. 38°50.8', Long. 76°15.7'
has replaced the present survey buoy in that
position.

7. Condition of Survey

The field plotting of the survey and the descriptive
report are satisfactory.

8. Compliance with Instructions for the Project

Satisfactory.

9. Additional Work Recommended

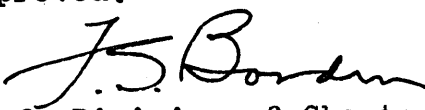
None.


10. Superseded Surveys


H- 177 (1847-70)	in part
H-2464 (1899)	" "
H-2465 (1899)	" "

Examined and approved:


Chief, Surveys Branch


Chief, Division of Charts


Chief, Section of
Hydrography


Chief, Division of Coastal
Surveys

Applied to chart 550 Feb. 7, 1944 g.H.S.

Applied to chart 1225 Feb. 8, 1944 g.H.S.

Applied to Reconst. of Chart 550 Jan. 6, 1947 *ED*