

# 6951

Diag'd. on Diag. ch. No. 77-3

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC  
Field No. 213 Office No. H-6951

### LOCALITY

State Maryland  
General locality Chesapeake Bay  
Locality Miles River

194 2-43

### CHIEF OF PARTY

L.P. Raynor H.J. Healy

### LIBRARY & ARCHIVES

DATE Dec. 28, 1944

6951

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. H 6951

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.

REGISTER NO. H-6951

Field No. 213

State MARYLAND ✓

General locality Chesapeake Bay ✓

Locality MILES RIVER ✓

Scale 1:10,000 Date of survey Nov - Dec. 1942  
Nov. - Dec., 1943.

Instructions dated April 17, 1940 and Sept. 23, 1943.

Vessel LYDONIA Launches, OGDON and MARINDIN

Chief of party L. P. Raynor, Henry J. Healy ✓

Surveyed by Ship's Officers ✓

Soundings taken by fathometer, graphic recorder, hand lead, ~~XXXX~~ ✓

Protracted by Mary Miller - Louis J. Walter

Soundings penciled by M. E. Byrd

Soundings in ~~XXXXXX~~ feet at MLW ~~XXXXXX~~ ✓

REMARKS: This sheet was processed at the Hydrographic Section of the

Southeastern District.

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SURVEY NO. H - 6951 (Field 213)

Project: CS-250

Instructions dated: April 17,  
1940 and Sept. 23, 1943

NOTE: This report was written from field notes submitted by the ship LYDONIA, and was supplemented by additional information obtained at this office.

SURVEY LIMITS & DATES:

This is a survey of the Miles River in Maryland and covers the area lying between latitude 38° 44.5' to 50' and longitude 76° 09' to 14'. The work was begun on November 26th and completed on December 10, 1943.

VESSELS & EQUIPMENT:

This survey was accomplished by launches operating from the ship LYDONIA.

Fathometer	Number	Launch
808	76	#79
	75	
808	55	#72
808	75	#100
	76	

TIDE STATIONS:

Automatic portable tide gages at St. Michaels and Miles River Bridge furnished the information for the tide reducers.

M.L.W. on staff at St. Michaels is 2.8 feet.

M.L.W. on staff at Miles River Bridge is 2.0 feet.

SMOOTH SHEET:

The smooth sheet was plotted in the hydrographic section of the Southeastern District at Norfolk, Virginia.

CONTROL STATIONS:

The primary control was obtained from previously established triangulation stations; the topographic signals were gotten from T-5709 and T-5712; while the hydrographic signals were located by the usual method of sextant cuts and fixes.

SHORELINE:

The shoreline was obtained from topographic sheets T-<sup>8249</sup>~~5709~~ and T-<sup>8258</sup>~~5712~~. ✓

CONTROL OF HYDROGRAPHY:

All lines were controlled by sextant fixes on signals previously established. ✓

CROSSLINES:

The crossings in general are in good agreement, except as noted under "Discrepancies". ✓

DISCREPANCIES:

152-155b (green), latitude  $38^{\circ}46.03'$  and longitude  $76^{\circ}11.05'$ . Soundings on this line appear to be displaced approximately 40 meters northward. If the positions at the ends of the line are held and the intermediate positions are plotted according to time, a better agreement with surrounding hydrography is obtained. *Adjusted*

The following shoal soundings indicated on the chart review were developed with results as follows:

Chart sounding of 5 feet in latitude  $38^{\circ}48.2'$  and longitude  $76^{\circ}12.5'$ . ✓  
As this area has a general depth of  $5\frac{1}{2}$  feet, only regular lines spaced about 100 meters were run.

Chart sounding in 8 feet in latitude  $38^{\circ}47.75'$  and longitude  $76^{\circ}12.5'$ . ✓  
This area was developed and a least depth of 9 feet found. *Disregard 8*

Chart sounding of 11 feet in latitude  $38^{\circ}46.75'$  and longitude  $76^{\circ}11.5'$ . ✓  
This area was developed and a least depth of  $11\frac{1}{2}$  feet was found in latitude  $38^{\circ}46.75'$  and longitude  $76^{\circ}11.50'$ .

MISCELLANEOUS:

The work done by the party of Lt. Comd'r. Henry J. Healy in 1942 was not plotted on this smooth sheet, as this area appears to have been thoroughly covered by the work done by the Ship LYDONIA. ✓

Respectfully submitted,

*Isadore M. Zeskind*  
Isadore M. Zeskind,  
Cartographic Engineer.

Norfolk, Va.,  
December 21, 1944.

Approved and forwarded

*Paul C. Whitney*  
Paul C. Whitney,

Supervisor, Southeastern District.

✓

STATISTICS

DATE 1943	DAY	LAUNCH	No.Soundings H.L. & Pole	No. Postiions	Statute Miles Sdg.Line
Nov.27	a	79	1	98	13.8
30	b	79	1	73	12.6
Dec. 1	c	79	2	185	25.1
2	d	79		100	9.7
3	e	79	3	120	10.8
4	f	79		69	6.7
7	g	79	3	80	10.2
8	h	79	4	112	8.9
9	j	79	3	62	5.0
Nov.30	a	72	22	67	7.6
Dec. 1	b	72	22	185	22.0
2	c	72	20	149	17.6
3	d	72	60	175	18.1
7	e	72	2	113	18.8
Nov.26	a	100		188	22.4
30	b	100	0	71	9.1
Dec. 7	c	100	5	81	6.2
8	d	100	3	62	5.6
9	e	100	265	150	15.4
10	f	100	3	130	10.6

Area in square miles 9.3

APPROVAL BY CHIEF OF PARTY

1943  
Boat Sheet H-6951 has been inspected and approved by me. The field work was done under my daily supervision. No additional hydrography is considered necessary. ✓

Off east shore of Miles River to southeast of St. Michaels, it was planned to continue hydrography to the beach with Launch 100. Due to weather and other conditions it was not economically feasible to complete this. The regular lines are in to about two feet of water, and only about 100 yards from HW line.



L. P. Raynor  
Commander USC&GS  
Chief of Party

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. 8190.1

Records accompanying survey:

Boat sheets .4...; sounding vols. 14...; wire drag vols. ....;  
 bomb vols. ....; graphic recorder rolls ...7...;  
 special reports, etc. ....<sup>2</sup> Bar Checks.....  
 .....

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

Number of positions on sheet	2300	
Number of positions checked	112	
Number of positions revised	16	
Number of soundings recorded	11,500 (approx.)	
Number of soundings revised (refers to depth only)	23	
Number of soundings erroneously spaced	48	
Number of signals erroneously plotted or transferred	0	
Topographic details	Time	.....hrs.
Junctions	Time	..6..
Verification of soundings from graphic record	Time	..20..
Verification by <sup>E.D. Goodrich</sup> F.A. Ortiz.....	Total time	49 " 188.. Date 2/26/47
Review by <i>J. J. Jordan</i> .....	Time	..14.. Date 4/27/47.

GEOGRAPHIC NAMES

Survey No.  
**H6951**

Name on Survey

	A	B	C	D	E	F	G	H	K
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
<u>Chesapeake Bay</u>								USG-B	1
<u>Miles River</u>								"	2
<u>Leeds Creek</u>								"	3
<u>Hunting Creek</u>									4
<u>Oak Creek</u>									5
<u>Long Haul Creek</u>									6
<u>Spencer Creek</u>									7
<u>Little Neck Creek</u>									8
<u>Newcomb Creek</u>									9
<u>Hambleton Cove</u>								"	10
<u>St. Michaels</u>			(location of tide stuff)						11
<u>Newcomb</u>									12
									13
<u>Deep Water Pt.</u>			(2 words)						14
<u>Fairview Pt.</u>									15
<u>Long Pt.</u>									16
<u>Parrott Pt.</u>									17
									18
									19
									20
									21
									22
									23
									24
									25
									26
									27

Manson underlined in red approved  
 by L. Heck at 5/8/47



LAC  
MR

### TIDE NOTE FOR HYDROGRAPHIC SHEET

January 16, 1945

~~Division of Hydrography and Topography:~~

✓ Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in  
14 volumes of sounding records for

HYDROGRAPHIC SHEET ~~6950~~-6951

Locality Miles River, Chesapeake Bay, Maryland.

Chief of Party: L. P. Raynor and Henry J. Healy in 1942-1943

Plane of reference is mean low water reading

2.8 ft. on tide staff at St. Michaels 1942

7.9 ft. below B. M. 1

12.0 ft. on tide staff at St. Michaels 1943

7.9 ft. below B. M. 1

Height of mean high water above plane of reference is 1.2 feet.

Condition of records satisfactory except as noted below:

*H. R. Edmonston*  
Acting Chief, Division of Tides and Currents.



3. Sounding Line Crossings

The agreement of soundings at crosslines is very good.

4. Junctions with Adjoining Surveys

Very good junctions are effected on the north and southeast with H-6605 (1940) and H-6950 (1943), respectively.

5. Comparison with Prior Surveys

H-177 (1847) and H-2465 (1899) on scales of 1:20,000

The soundings on both these prior surveys, particularly on H-2465, are in good agreement with soundings on the present survey. However, the present survey adequately covers the area and supersedes the prior surveys except for a 1-ft. sounding on an oyster reef which has been carried forward from H-2465 at lat.  $38^{\circ} 48.02'$ , long.  $76^{\circ} 12.76'$ . This charted sounding was not investigated on the present survey.

6. Comparison with Chart 1225 (Print date of Nov. 25, 1946)

a. Hydrography

Charted hydrography originates with the surveys previously mentioned and is superseded by the present survey.

b. Aids to Navigation

Aids on the present survey and on the chart are in substantial agreement and adequately mark the features intended.

7. Condition of the Survey

a. The Descriptive Report and sounding records are complete and comprehensive.

b. The smooth-plotting was well executed.

8. Compliance with Project Instructions


The survey adequately complies with the project instructions.

9. Additional Field Work

This is an excellent basic survey and no additional field work is recommended.

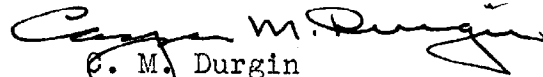
  
I. E. Rittenburg

Chief, Nautical Chart Branch

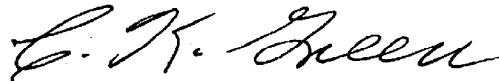
  
K. G. Crosby

Chief, Section of Hydrography

Examined and approved:

  
C. M. Durgin

Chief, Division of Charts

  
C. K. Green

Chief, Division of Coastal Surveys

