

6876

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<p>Form 504</p> <p>U. S. COAST AND GEODETIC SURVEY</p> <p>DEPARTMENT OF COMMERCE</p> <p><b>DESCRIPTIVE REPORT</b></p>	
<p>Type of Survey <u>HYDROGRAPHIC</u></p>	
<p>Field No. <u>101</u></p>	<p>Office No. <u>H-6876</u></p>
<p>LOCALITY</p>	
<p>State <u>MARYLAND</u></p>	
<p>General locality <u>Chesapeake Bay</u></p>	
<p>Locality <u>Mouth of Patuxent River</u></p>	
<p><u>1944</u></p>	
<p>CHIEF OF PARTY</p>	
<p>Benj. H. Rigg</p> <p>Thos. B. Reed</p>	
<p>LIBRARY &amp; ARCHIVES</p>	
<p>DATE _____</p>	

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

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-6876

Field No. 101

State Maryland

General locality Chesapeake Bay  
Mouth of Patuxent River

Locality Point Patience to Cedar Point

Scale 1:10,000 Date of survey Dec. 1, 1943 to Feb. 10, 1944

Instructions dated September 11, 1943

Vessel M. V. COWLE

Chief of party Benj. H. Rigg and Thos. B. Reed

Surveyed by Joseph E. Waugh; George E. Russell, Jr.

Soundings taken by fathometer, graphic recorder, hand lead, wire and pole.

Protracted by A. G. Atwill

Soundings penciled by A. G. Atwill } Verification by: J. A. Dinsmore

Soundings in fathoms feet at MLW MLLW

REMARKS: This sheet was processed at the Norfolk Processing Office.

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SURVEY No. H-6876  
(Field No. 101)

PROJECT CS-307 PATUXENT RIVER

Benj. H. Rigg,  
Thos. B. Reed, Chiefs of Party

This survey was made in accordance with instructions from the Director dated September 11, 1943. The scale of the survey was 1:10,000. It includes all of the Patuxent River and the creeks adjacent thereto, from a line between Point Patience and Town Point to a line between Little Cove Point and Cedar Point, with the exception of Mill, Back, and St. Johns Creeks which were surveyed on Sheet No. 104 on a 1:5,000 scale. Sheet No. 104 (field No.) joins this sheet at approximate Lat.  $38^{\circ} 19.2'$ , Long  $76^{\circ} 27.0'$ . Hungerford Creek (Hellen Gut on chart No. 539) was also surveyed on this sheet. This sheet joins sheet No. H-6877 at its northern limit, and sheet No. 104 as mentioned above. This sheet does not join any modern survey at its eastern limit. Satisfactory junctions were made with sheets No. H-6877 and No. 104.

Standard hydrographic methods were used. The launch work was accomplished with a rearming barge loaned to this party by the Naval Mine Warfare Test Station. The sounding lines were controlled by sextant angles to shore objects. In the creeks and on the inshore lines the vessel was controlled by distances and directions to points and signals. A Submarine Signal Company Type 808 depth finder was installed on the launch. Satisfactory bar checks were obtained. Corrections applied to the soundings is the subject of a separate report covering all soundings on Project 307. Duplicate copies of the corrections used are attached to this report.

The fixes insofar as possible were taken at such times as the fix line would appear on one of the divisions of the fathogram. Because of reflexes of the operator in marking the fathogram and the recorder in reading the clock small differences in time will be found. These differences were ignored in plotting and all regular soundings were sealed on the regular divisions of the fathogram. Any small differences due to the fix line not falling exactly on the proper division of the paper were also ignored. Any odd time intervals when the fix line was not observed on a division of the fathogram have been plainly marked in the sounding volume and the soundings were plotted taking these differences into account.

A 25 foot skiff was used on the inshore work and in the smaller creeks. The lead line and sounding pole were used in obtaining the skiff soundings and the lines were controlled as described above for control of the launch. A 10 second interval was used on the skiff sounding.

The bottom samples in the areas where the depth finder was used were obtained with a snapper type bottom specimen cup. Soundings were taken with the lead line at the same time that bottoms were taken with the cup. These bottoms were taken after the regular sounding lines had been run.

Signals located by graphic control, and triangulation stations were used in all areas except Town Creek where signals located on air-photographic compilations were used. The signals shown in green ink are from the compilations and those shown in red ink are from the graphic control sheets. *Prior to New Manual*

The several ranges shown on this sheet are of a more or less temporary nature and are subject to change. They are not navigational ranges but were established by the Navy for use in the work being conducted by them in this area. The data required by paragraph 160 (k), page 21 of the Hydrographic Manual has not been obtained for these ranges. Pub. No. 113

The soundings on the boat sheet were plotted with no depth recorder corrections and the tide reducers were computed from predicted tides. Wind conditions have a large effect on the actual tides and there are some instances where the boat sheet soundings will vary as much as two feet from the final soundings.

There are no dredged channels on the sheet. The Naval Mine Warfare Test Station has deepened a small cove to a depth of about eight feet at their boat house (Lat.  $38^{\circ} 19.9'$ , Long.  $76^{\circ} 28.4'$ ). The Naval Air Base has dredged two sea-plane basins on their reservation. One of these at Lat.  $38^{\circ} 17.5'$ , Long.  $76^{\circ} 25.8'$  has a depth of about 10 feet. Sounding was partly completed in this basin when the launch party was warned that the basin was mined. The other basin at Lat.  $38^{\circ} 17.6'$ , Long.  $76^{\circ} 27.0'$  was still under construction when the survey was made. The entrance appears to have been dredged to a depth of about 10 feet. There are no dangers to navigation to vessels of such draft as can enter the river. The controlling depth at the entrance to the river is about 29 feet at mean low water. 25

Town Creek has a depth of 14 feet at the entrance and a depth of approximately 11 feet for a distance of about 1/4 mile above the entrance. Practically all of this creek is navigable by small boats. The entrance is partially blocked by an unmarked shoal and should be used only with local knowledge. Second Cove at Lat.  $38^{\circ} 19.8'$ , Long.  $76^{\circ} 28.4'$  has a depth of about six feet for 2/3 of its split -25

length; however, a bar partially blocks its entrance and it should be used only with local knowledge. Third Cove, at Lat.  $38^{\circ} 19.9'$ , Long.  $76^{\circ} 28.8'$  is the site of the boat house of the Naval Mine Test Station mentioned above. All other creeks on this sheet have their entrances blocked to such an extent that it was impractical to sound them. These creeks can be entered only at high water by small boats. 25

This survey is of an area covered by part of sheet No. H-2931 (Scale 1:20,000) surveyed in 1907. Because of the difference in scale, a detailed comparison was not made between the two surveys. ~~but in general they appear to agree fairly well.~~ Hydrographic survey No. H-6684, made in 1941 also covers part of the area covered by this survey. No serious discrepancies were found between these two surveys. The depth curves on the new survey have the same general shape as those on the old surveys. The charted wreck in Lat.  $38^{\circ} 19.9'$ , Long.  $76^{\circ} 25.2'$ , mentioned as item 1 in a preliminary review by G. B. Littlepage dated September 14, 1943 was thoroughly developed, both on the boat sheet and on an overlay and no trace of the wreck was found. The wreck mentioned as Item No. 2 of the above review (Lat.  $38^{\circ} 18.76'$ , Long.  $76^{\circ} 25.0'$ ) was developed and then drift leaded for several hours. Although a depth of ~~25~~ feet was obtained by depth recorder, the shoalest depth that could be obtained by hand lead was ~~34~~ feet. The area around the 36 foot sounding (Item No. 3 of the above review), said to be in Lat.  $38^{\circ} 18.7'$ , Long.  $76^{\circ} 25.9'$  in a survey made by the U. S. S. DAIGREN in 1941, was developed and no trace of the 36 foot sounding could be found. ~~36 deleted from charts on recommendation of Lt. Kano. See Desc. Report H-6684 (1941)~~ See Review

The floating aids to navigation on this sheet were located by using prominent objects for signals. A special chart has been prepared and forwarded to the Coast Guard headquarters for this district.

Landmarks for Charts and Coast Pilot Information have been forwarded to the office in separate reports. 48.11

The geographic names in this area were investigated by War Mapping Field Party No. 2 within the past year.

Respectfully submitted,

*George E. Russell Jr.*  
George E. Russell Jr.  
Ensign, C. & G. Survey

Approved and forwarded,

*Thos B Reed*

Thos. B. Reed  
Chief of Party

LIST OF SIGNALS OUTSIDE THE HIGH WATER LINE

Name	Description	Name	Description
ACT ✓	Small bldg. on piles	LIP ✓	Pier
ARK ✓	Dolphin	LITE ✓	Pt. Patience Light
		LOG ✓	Gable of bldg. on pier
COLE ✓	Wreck		
COY ✓	Dolphin	MILL ✓	Inshore end of fish trap
DATE ✓	Pier	NAN ✓	Pier
DOG ✓	Pier	NAT ✓	Pier
DOE ✓	Offshore end of fish trap	NOW ✓	Corner, entrance to basin
Dot ✓	Offshore end of fish trap		
DRIP ✓	Dolphin	OAK ✓	Pier
		OFF ✓	Corner, entrance to basin
EAR ✓	Pile	ON ✓	Pier
EAST	Range marker		
		PAD ✓	Offshore end of fish trap
FUSS ✓	Pier		
		Quit ✓	Dolphin
GAS ✓	Shack, end of pier		
GO ✓	Pier	SEX ✓	Dolphin
GOAT ✓	Pier	SOW ✓	Duck blind
GOT ✓	Duck blind		
		TESS ✓	Pile
HAM ✓	Small bldg. on piles	TRY ✓	Flag on wreck
HID ✓	Small bldg. on pier		
HIS ✓	Pier	VIM ✓	Dolphin
HOG ✓	Solomons Id. Wharf Light		
HUT ✓	Pile	WAX ✓	Steps at high water line
ICE ✓	Pier	YOU ✓	Pile
ILL ✓	Pier		
		ZED ✓	Dolphin
KEG ✓	Inshore end, fishtrap		
KIN ✓	Pier		
KISS ✓	Temp. flag on stump		
			Range markers A to K, which are south west of Town Point.

STATISTICS  
Sheet No. H-6876

Boat Used	Statute Miles of Sounding Lines	Number of Soundings	Number of Positions
Navy Launch	347.8	11,974	2,048
Skiff	21.1	1,613	160
Totals	368.9	13,587	2,208

Total area surveyed - 13.0 square statute miles

Tidal Note

Survey No. H-6876

Tide observations from the standard gage operated by the Chesapeake Biological Laboratory at Solomons Island were used for reducing all soundings on this sheet. Hourly heights from this gage were furnished this party by the Washington Office.

The tides in this locality are affected to a considerable extent by wind and the boat sheet soundings, which were reduced from predicted tides, may vary as much as two feet from the smooth sheet soundings.

## HYDROGRAPHIC SHEET NO. H-6876

Date 19	Day Letter	No. of Positions	Statute Miles
Dec.21,1943	a(red)	9	0.0
Jan.6,1944	b(red)	63	11.8
Jan.7	c(red)	102	25.5
Jan.8	d(red)	35	7.5
Jan.10	e(red)	114	24.2
Jan.11	f(red)	59	12.4
Jan.13	g(red)	118	23.3
Jan.14	h(red)	137	30.2
Jan.17	j(red)	84	14.4
Jan.18	k(red)	127	26.4
Jan.19	l(red)	121	22.4
Jan.20	m(red)	3	.5
Jan.21	n(red)	0	0.0
Jan.22	p(red)	89	20.4
Jan.24	q(red)	116	19.5
Jan.25	r(red)	66	11.5
Jan.26	s(red)	130	17.2
Jan.27	t(red)	164	25.5
Jan.28	u(red)	108	18.1
Jan.29	v(red)	79	11.8
Jan.31	w(red)	41	3.2
Feb. 2	x(red)	87	11.5
Feb. 3	y(red)	79	7.2
Feb. 4	z(red)	19	3.2
Feb. 5	a(green)	82	10.1
Feb. 7	b(green)	74	11.0
Feb.10	c(green)	<u>4</u>	<u>0.0</u>
	Total	2101	368.8



ADDENDUM

HYDROGRAPHIC SHEET NO. H-6876

Latitude 38° 19.22' and Longitude 76° 24.21' 20 w (red)  
A 25½ ft. sounding falls in an area whose general depth is 45 ft. This is a hand lead sounding which appears to be in error. Sounding obtained in getting bottom sample rejected.

Depth Curves: The depth curves on the smooth sheet are shown at the standard intervals, whereas the instructions call for them to be shown at 10 ft. intervals. We thought it advisable to show them in this manner as the Washington Office might desire to draw the 10 ft. depth curves on the bromides of the smooth sheet which will be submitted to the Navy and show the standard depth curves on the smooth sheet.

*Instructions - Hydrography to be adequate for drawing 10-ft interval curves. 10-ft curves not instructed.*

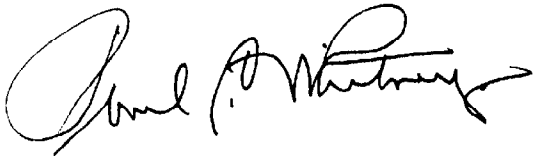
Respectfully submitted,



Isadore M. Zeskind  
Associate Cartographic Engineer

Norfolk, Va.  
May 24, 1944

Approved and Forwarded



Paul C. Whitney  
Supervisor S. E. District

DEPTH RECORDER CORRECTIONS  
SHEET NUMBER 6878

Date Day Correction	Jan. 6 b-day		Jan. 7 o-day		Jan. 8 d-day		Jan. 11 f-day	
	From	To	From	To	From	To	From	To
0.0	---	---	---	---	---	---	---	---
- 0.2	---	---	---	---	0.0	2.5	---	---
- 0.4	0.0	4.0	0.5	5.0	3.0	5.0	0.0	4.0
- 0.6	4.5	9.0	5.5	9.0	5.5	7.5	4.5	8.0
- 0.8	9.5	14.0	9.5	13.0	8.0	10.0	8.5	12.0
- 1.0	14.5	19.0	13.5	17.0	10.5	14.0	12.5	16.0
- 1.2	19.5	24.0	17.5	21.0	14.5	18.5	16.5	20.0
- 1.4	24.5	29.0	21.5	25.0	19.0	23.0	20.5	24.0
- 1.6	29.5	34.0	25.5	29.0	23.5	27.0	24.5	28.0
- 1.8	34.5	39.0	29.5	33.0	27.5	31.5	28.5	32.0
- 2.0	39.5	45.5	33.5	37.0	32.0	36.0	32.5	36.0
- 2.2	46.0	52.0	37.5	41.0	36.5	40.0	36.5	40.0
- 2.4	52.5	59.0	41.5	44.5	40.5	44.5	40.5	44.5
- 2.6	59.5	66.0	45.0	48.5	45.0	48.0	45.0	50.0
- 2.8	66.5	72.0	49.0	53.0	48.5	51.5	50.5	53.0
- 3.0	72.5	78.0	53.5	57.5	52.0	54.5	53.5	56.0
- 3.2	78.5	82.5	58.0	62.0	55.0	58.0	56.5	58.5
- 3.4	83.0	87.0	62.5	66.5	58.5	61.0	59.0	62.0
- 3.6	87.5	91.5	67.0	71.0	61.5	64.0	62.5	66.0
- 3.8	92.0	96.0	71.5	75.0	64.5	67.0	66.5	73.0
- 4.0	96.5	101.0	75.5	80.0	67.5	70.0	73.5	79.5
- 4.2			80.5	84.0	70.5	73.0	80.0	84.0
- 4.4			84.5	88.5	73.5	76.5	84.5	86.0
- 4.6					77.0	79.5	86.5	87.5
- 4.8					80.0	82.5	88.0	89.0
- 5.0					83.0	86.0	89.5	92.0
- 5.2					86.5	89.0	92.5	97.0
- 5.4					89.5	93.5	97.5	101.5
- 5.6					94.0	98.0	102.0	106.0
- 5.8					98.5	102.5	106.5	110.5
- 6.0					103.0	107.0	111.0	115.0
- 6.2					107.5	111.5	115.5	119.5
- 6.4					112.0	116.0	120.0	124.0
- 6.6					116.5	121.0	124.5	128.5
- 6.8					121.5	125.0	129.0	133.0
- 7.0					125.5	130.0	133.5	137.5

NOTE:- When the sounding appears on "B" scale increase correction by -1.5'  
 When the sounding appears on "C" scale increase correction by -1.5'  
 When the sounding appears on "D" scale increase correction by +0.2'

DEPTH RECORDER CORRECTIONS  
SHEET NUMBER 6876

Date Day Correction	Jan. 10 e-day		Jan. 10 e-day		Jan. 10 e-day		Jan. 13 g-day	
	A. M. From	Only To	A. M. From	to 1500 To	From 1500 From	To	From	To
- 0.2	0.0	4.0	---	---	---	---	---	---
-0.4	4.5	8.0	---	---	---	---	---	---
- 0.6	8.5	12.0	0.5	5.0	---	---	0.5	4.5
- 0.8	12.5	16.0	5.5	9.0	0.0	3.0	5.0	8.0
- 1.0	16.5	20.0	9.5	13.5	3.5	7.5	8.5	12.0
- 1.2	20.5	24.0	14.0	18.0	6.0	12.0	12.5	15.5
- 1.4	24.5	28.5	18.5	22.0	12.5	16.0	16.0	19.0
- 1.6	29.0	32.5	22.5	26.0	18.5	20.0	19.5	22.5
- 1.8	33.0	36.5	26.5	30.5	20.5	24.0	23.0	26.5
- 2.0	37.0	40.5	31.0	34.0	24.5	28.0	27.0	30.0
- 2.2	41.0	44.5	34.5	38.0	28.5	32.0	30.5	34.0
- 2.4	45.0	48.5	38.5	41.0	32.5	35.0	34.5	37.5
- 2.6	49.0	52.5	41.5	45.0	35.5	39.0	38.0	42.5
- 2.8	53.0	56.5	45.5	48.0	39.5	43.0	43.0	47.0
- 3.0	57.0	60.5	48.5	52.0	43.5	46.0	47.5	50.0
- 3.2	61.0	64.5	52.5	55.0	46.5	50.0	50.5	53.0
- 3.4	65.0	68.5	55.5	59.0	50.5	54.0	53.5	55.0
- 3.6	69.0	72.5			54.5	58.0	55.5	57.0
- 3.8	73.0	76.0			58.5	63.0	57.5	59.0
- 4.0	76.5	82.0			63.5	67.5	59.5	61.0
- 4.2	82.5	86.5			68.0	72.0	61.5	63.0
- 4.4	87.0	91.0			72.5	76.0	63.5	64.0
- 4.6	91.5	96.0			76.5	80.5	64.5	65.0
- 4.8	96.5	100.0			81.0	85.0	65.5	66.5
- 5.0	100.5	105.0			85.5	89.5	67.0	69.0
- 5.2	105.5	109.5			90.0	94.0	69.5	74.0
- 5.4	110.0	114.0			94.5	99.0	74.5	83.0
- 5.6	114.5	119.0			99.5	103.0	83.5	89.0
- 5.8	119.5	123.0			103.5	108.0	89.5	93.0
- 6.0	123.5	128.0			108.5	112.5	93.5	98.0
- 6.2	128.5	132.0			113.0	117.0	98.5	102.0
- 6.4	132.5	137.0					102.5	107.0
- 6.6	137.5	141.0					107.5	111.0
- 6.8							111.5	116.0
- 7.0							116.5	120.0
- 7.2							120.5	125.0
- 7.4							125.5	130.0
- 7.6							130.5	134.0
- 7.8							134.5	139.0

NOTE:-

When the sounding appears on "B" scale increase correction by -1.5'  
 When the sounding appears on "C" scale increase correction by -1.5'  
 When the sounding appears on "D" scale increase correction by +0.2'

DEPTH RECORDER CORRECTIONS  
SHEET NUMBER 6876

Date Day Correction	Jan. 14 h-day		Jan. 17 j-day		Jan. 18 k-day		Jan. 20 m-day	
	From	To	From	To	From	To	From	To
- 0.2	---	---	---	---	0.0	2.0	0.0	1.5
- 0.4	---	---	0.0	4.0	2.5	6.0	2.0	4.0
- 0.6	0.0	3.5	3.5	6.5	6.5	10.0	4.5	7.0
- 0.8	4.0	7.0	7.0	10.0	10.5	13.5	7.5	10.0
- 1.0	7.5	10.0	10.5	13.5	14.0	17.0	10.5	12.5
- 1.2	10.5	13.0	14.0	17.0	17.5	21.0	13.0	15.0
- 1.4	13.5	16.0	17.5	20.5	21.5	25.0	15.5	18.0
- 1.6	16.5	19.5	21.0	24.0	25.5	28.5	18.5	21.0
- 1.8	20.0	23.0	24.5	28.0	29.0	32.0	26.5	29.0
- 2.0	23.5	26.0	28.5	31.0	32.5	36.0	33.5	36.0
- 2.2	26.5	30.0	31.5	34.5	36.5	40.0	38.5	43.0
- 2.4	30.5	34.0	35.0	38.0	40.5	43.0		
- 2.6	34.5	38.0	38.5	41.5	43.5	46.5		
- 2.8	38.5	42.0	42.0	45.0	47.0	50.0		
- 3.0	42.5	46.0	45.5	49.0	50.5	53.5		
- 3.2	46.5	49.0	49.5	52.5	54.0	57.0		
- 3.4	49.5	52.5	53.0	56.0	57.5	60.0		
- 3.6	53.0	55.5	56.5	60.0	60.5	63.5		
- 3.8	56.0	59.0	60.5	64.0	64.0	67.0		
- 4.0	59.5	62.0	64.5	67.5	67.5	70.0		
- 4.2	62.5	65.0	68.0	71.0	70.5	74.0		
- 4.4	65.5	68.5	71.5	75.0	74.5	79.5		
- 4.6	69.0	72.0	75.5	78.5	80.0	85.0		
- 4.8	72.5	75.0	79.0	82.0	85.5	90.0		
- 5.0	75.5	80.0	82.5	85.5	90.5	95.5		
- 5.2	80.5	87.0	86.0	91.0				
- 5.4	87.5	91.5	91.5	95.5				
- 5.6	92.0	97.0	96.0	100.0				
- 5.8	97.5	102.0	100.5	104.5				
- 6.0	102.5	106.0	108.0	109.0				
- 6.2			109.5	114.0				
- 6.4			114.5	118.5				
- 6.6			119.0	123.0				
- 6.8			123.5	128.0				
- 7.0			128.5	132.0				
- 7.2			132.5	136.5				
- 7.4			137.0	141.0				

NOTE:-

When the sounding appears on "B" scale increase correction by -1.5'  
 When the sounding appears on "C" scale increase correction by -1.5'  
 When the sounding appears on "D" scale increase correction by +0.2'

DEPTH RECORDER CORRECTIONS  
SHEET NUMBER 6876

Date Day Correction	Jan. 19 l-day		Jan. 19 l-day		Jan. 22 p-day*		Jan. 22 p-day	
	A. M. Only From	To	P. M. Only From	To	To 10-43-33 AM From	To	Balance of Day From	To
- 0.2	0.0	1.0	---	---	---	---	---	---
- 0.4	1.5	4.0	0.0	3.5	---	---	0.5	4.0
- 0.6	4.5	7.0	4.0	7.0	0.0	3.0	4.5	7.5
- 0.8	7.5	10.0	7.5	11.0	3.5	7.5	8.0	11.0
- 1.0	10.5	13.0	11.5	14.5	8.0	12.0	11.5	14.5
- 1.2	13.5	19.0	15.0	18.5	12.5	18.5	15.0	18.0
- 1.4	19.5	22.0	19.0	22.0	17.0	21.0	18.5	21.5
- 1.6	22.5	23.5	22.5	26.0	21.5	26.0	22.0	25.0
- 1.8	24.0	27.0	26.5	29.5	26.5	30.5	26.5	29.0
- 2.0	27.5	33.0	30.0	33.5	31.0	35.0	29.5	34.0
- 2.2	33.5	38.0	34.0	37.0	35.5	39.5	34.5	39.5
- 2.4	38.5	43.0	37.5	41.0	40.0	43.5	40.0	45.0
- 2.6	43.5	47.0	41.5	44.5	44.0	47.0	45.5	49.0
- 2.8	47.5	50.0	45.0	49.0	47.5	49.5	49.5	53.0
- 3.0	50.5	53.0	49.5	52.5	50.0	52.0	53.5	55.5
- 3.2	53.5	58.0	53.0	58.0	52.5	56.5	58.0	58.5
- 3.4	56.5	60.0	56.5	60.0	57.0	62.0	59.0	61.5
- 3.6	60.5	67.0	60.5	63.5	62.5	67.5	62.0	64.5
- 3.8	67.5	72.0	64.0	67.0			65.0	67.5
- 4.0	72.5	75.0	67.5	71.0			68.0	70.0
- 4.2	75.5	78.0	71.5	74.5			70.5	73.0
- 4.4			75.0	78.5				

NOTE:-

- When the sounding appears on "B" scale increase correction by -1.5'
- When the sounding appears on "C" scale increase correction by -1.5'
- When the sounding appears on "D" scale increase correction by +0.2'

\*The correction to sounding on position 33 p-day, January 22, 1944 is -1.0. This is a correction for this sounding only due to inadvertently changed initial.

DEPTH RECORDER CORRECTIONS  
SHEET NUMBER 6876

Date Day Correction	Jan. 24		Jan. 25		Jan. 25		Jan. 26	
	q-day		r-day		r-day		s-day	
	From	To	A. M. Only	To	P. M. Only	To	From	To
- 0.2	---	---	---	---	---	---	9.0	1.0
- 0.4	0.0	2.5	0.0	7.0	---	---	1.5	5.0
- 0.6	3.0	7.5	7.5	10.5	---	---	5.5	9.0
- 0.8	8.0	12.0	11.0	14.5	0.0	6.5	9.5	12.5
- 1.0	12.5	17.0	15.0	17.5	7.0	13.0	13.0	16.5
- 1.2	17.5	22.0	18.0	20.0	13.5	19.0	17.0	20.0
- 1.4	22.5	26.0	20.5	22.0	19.5	24.0	20.5	24.0
- 1.6	26.5	29.5	22.5	24.0	24.5	28.5	24.5	28.0
- 1.8	30.0	33.0	24.5	26.0	29.0	32.0	28.5	34.0
- 2.0	33.5	36.5	28.5	33.5	32.5	36.0	34.5	43.5
- 2.2	37.0	40.0	34.0	36.0	36.5	39.5	44.0	51.0
- 2.4	40.5	43.5	36.5	38.5	40.0	43.0	51.5	56.0
- 2.6	44.0	47.0			43.5	47.0	56.5	60.5
- 2.8	47.5	50.0			47.5	50.0	61.0	65.0
- 3.0	50.5	54.0			50.5	54.0	65.5	70.0
- 3.2	54.5	57.0			54.5	57.5	70.5	74.0
- 3.4	57.5	62.0			58.0	60.0	74.5	78.0
- 3.6					60.5	63.5		
- 3.8					64.0	67.0		
- 4.0					67.5	70.0		
- 4.2					70.5	73.0		
- 4.4					73.5	76.5		
- 4.6					77.0	80.5		
- 4.8					81.0	85.0		
- 5.0					85.5	89.5		
- 5.2					90.0	94.0		
- 5.4					94.5	98.5		
- 5.6					99.0	103.0		
- 5.8					103.5	108.0		
- 6.0					108.5	112.0		

NOTE:-

When the sounding appears on "B" scale increase correction by -1.5'  
 When the sounding appears on "C" scale increase correction by -1.5'  
 When the sounding appears on "D" scale increase correction by +0.2'

DEPTH RECORDER CORRECTIONS  
SHEET NUMBER 6876

Date Day	Jan. 27 t-day		Jan. 28 u-day		Jan. 29 v-day (AM to 1000)		Jan. 29 v-day (1000 to Noon)		Jan. 29 v-day (PM Only)	
	Correction	From To	From To	From To	From To	From To	From To	From To	From To	
0.0	---	---	0.0	4.5	---	---	---	---	---	---
- 0.2	<del>4.0</del>	<del>4.0</del>	5.0	8.5	0.0	6.5	---	---	---	---
- 0.4	1.0	5.0	9.0	12.5	7.0	11.5	1.0	5.0	0.0	2.5
- 0.6	5.5	9.0	13.0	16.5	12.0	16.0	5.5	9.0	3.0	6.0
- 0.8	9.5	12.5	17.0	20.5	16.5	20.0	9.5	13.0	6.5	9.0
- 1.0	13.0	16.5	21.0	24.5	20.5	23.0	13.5	17.0	9.5	12.0
- 1.2	17.0	20.5	25.0	28.5	23.5	27.0	17.5	21.0	12.5	15.0
- 1.4	21.0	24.5	29.0	32.5	27.5	30.0	21.5	25.0	15.5	18.5
- 1.6	25.0	28.0	33.0	36.0	30.5	33.5	25.5	28.5	19.0	22.0
- 1.8	28.5	32.0	36.5	40.0	34.0	38.0	29.0	32.5	22.5	25.0
- 2.0	32.5	36.0	40.5	44.0	38.5	42.0	33.0	37.0	25.5	28.5
- 2.2	36.5	40.0	44.5	48.0	42.5	46.0	37.5	41.0	29.0	32.5
- 2.4	40.5	44.0	48.5	52.0	46.5	50.0	41.5	45.0	33.0	37.0
- 2.6	44.5	48.0	52.5	56.0	50.5	54.0	45.5	49.0	37.5	41.0
- 2.8	48.5	52.0	56.5	60.0	54.5	58.0	49.5	53.0	41.5	45.0
- 3.0	52.5	56.0	60.5	64.0	58.5	62.0	53.5	57.0	45.5	49.0
- 3.2	57.5	62.0	65.5	69.0	62.5	66.0	57.5	61.0	49.5	53.5
- 3.4	62.5	66.5	70.5	74.0	66.5	70.0	61.5	65.0	53.5	57.0
- 3.6	67.0	71.5	75.5	79.0	70.5	74.0	65.5	69.0	57.5	61.0
- 3.8							68.0	72.0		

NOTE:-

- When the sounding appears on "B" scale increase correction by -1.5'
- When the sounding appears on "C" scale increase correction by -1.5'
- When the sounding appears on "D" scale increase correction by +0.2'

DEPTH RECORDER CORRECTIONS  
SHEET NUMBER 6876

Date Day Correction	Jan. 31 w-day		Feb. 2 x-day		Feb. 3 y-day		Feb. 4 z-day	
	From	To	From	To	From	To	From	To
- 0.2	0.0	3.0	---	---	0.0	3.5	---	---
- 0.4	3.5	7.0	0.0	1.5	4.0	7.5	---	---
- 0.6	7.5	11.0	2.0	8.0	8.0	11.5	0.0	2.0
- 0.8	11.5	15.0	6.5	10.5	12.0	15.5	2.5	5.5
- 1.0	15.5	19.0	11.0	15.0	16.0	19.5	6.0	9.0
- 1.2	19.5	22.5	15.5	20.0	20.0	23.5	9.5	12.5
- 1.4	23.0	26.0	20.5	24.0	24.0	28.0	13.0	16.0
- 1.6	26.5	30.0	24.5	28.5	28.5	33.5	16.5	23.0
- 1.8	30.5	35.0	29.0	33.0	34.0	38.5	23.5	31.0
- 2.0	35.5	43.0	33.5	39.0	39.0	44.0	31.5	34.5
- 2.2	43.5	51.5	39.5	44.5	44.5	49.0	35.0	36.0
- 2.4	52.0	59.5	45.0	49.0	49.5	54.0	36.5	37.5
- 2.6	60.0	68.0	49.5	51.5	54.5	59.0	38.0	40.0
- 2.8			52.0	54.0	59.5	62.5	40.5	47.0
- 3.0			54.5	58.0	63.0	66.5	47.5	54.0
- 3.2			58.5	62.5	67.0	70.0	54.5	59.0
- 3.4			63.0	67.5	70.5	74.0	59.5	63.5
- 3.6			68.0	76.0	74.5	78.0	64.0	68.0
- 3.8					78.5	82.0	68.5	72.0
- 4.0					82.5	85.5	72.5	77.0
- 4.2					86.0	89.5	77.5	81.0
- 4.4					90.0	93.0	81.5	86.0
- 4.6					93.5	97.0	86.5	90.0
- 4.8					97.5	101.0	90.5	95.0
- 5.0					101.5	105.0	95.5	99.0
- 5.2					105.5	109.0	99.5	104.0
- 5.4					109.5	114.0	104.5	108.0
- 5.6					114.5	118.0		
- 5.8					118.5	123.0		
- 6.0					123.5	127.0		
- 6.2					127.5	132.0		
- 6.4					132.5	136.0		
- 6.6					136.5	141.0		

NOTE:-

When the sounding appears on "B" scale increase correction by -1.5'  
 When the sounding appears on "C" scale increase correction by -1.5'  
 When the sounding appears on "D" scale increase correction by +0.2'





DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

~~TO BE CHARTED~~ STRIKE OUT ONE

M. V. COMIE

March 1, 1944

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks, be charted on ~~charts~~ the charts indicated.

The positions given have been checked after listing. *Yes*

*Thomas B. Reed*  
Chief of Party

GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION		DATUM	METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		LATITUDE	LONGITUDE							
		° ' "	° ' "							
Patuxent River, Md.	*OIL TANK, TALLEST OF THREE (A Large Tank, Esso - 1943)	38 19 ✓	76 27 ✓	NA 1927	Triangulation	1943	X	X		539 3331 1224
	*RADIO MAST, silver (A West Radio Tower - 1943)	38 16 ✓	76 27 ✓	ditto	ditto	1943	X			1224 3331
	*RADIO MAST, silver (A Center Radio Tower - 1943)	38 16 ✓	76 27 ✓	ditto	ditto	1943	X			1224 3331
	*RADIO MAST, silver (A East Radio Tower - 1943)	38 16 ✓	76 27 ✓	ditto	ditto	1943	X			1224 3331
	TOWER, control, Naval Air Station (A Control Tower, N.A.B. - 1943)	38 17 ✓	76 25 ✓	ditto	ditto	1943	X	X		1224 3331 539
	*TANK, (ELEVATED) (A Tall water tank, elevated-1943)	38 16 ✓	76 27 ✓	ditto	ditto	1943	X			1224 3331
	CROSS, Catholic Church (A Catholic Church Cross-1943)	38 19 ✓	76 27 ✓	ditto	ditto	1943	X			539 3331
	TANK, (ELEVATED) (A Watertank, Wooden, Elevated-1943)	38 17 ✓	76 25 ✓	ditto	ditto	1943	X	X		1224 3331 539

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not individual field survey sheets. Information under each column heading should be given.

GEOGRAPHIC NAMES

Survey No. **H6876**

Name on Survey	Sources										
	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>									U.S.G.B		1
<u>Patuxent River</u>											2
* <u>Solomons Island</u>			(location of tide staff)						U.S.G.B		3
* <u>Little Cove Pt.</u>											4
* <u>Town Creek</u>											5
- <u>Hog Pt</u>									U.S.G.B		6
- <u>Fishing Pt</u>											7
<u>Second Cove</u>											8
<u>Third Cove</u>											9
											10
											11
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											26
											27

} see pp 2,3

Names identified in red  
L. Heck on 4/17/46

Remarks

Decisions

	Remarks	Decisions
1		
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Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. H0876

Records accompanying survey:

Boat sheets ....; sounding vols. ....; wire drag vols. ....;  
bomb vols. ....; graphic recorder rolls .....;  
special reports, etc. ....  
.....

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

Number of positions on sheet	2208	
Number of positions checked	245	
Number of positions revised	12	
Number of soundings recorded	13587	
Number of soundings revised (refers to depth only)	43	
Number of soundings erroneously spaced	55	
Number of signals erroneously plotted or transferred	—	
Topographic details	Time 15 hrs.	
Junctions	Time 2 hrs.	
Verification of soundings from graphic record	Time 16 hrs.	
Verification by <i>J. A. Dinsmore</i>	Total time 278 hrs.	Date 3/29/46.
Review by <i>J. F. Jordan</i>	Time 30	Date 4/5/46.

Lac  
HAD

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 6, 1944

~~Division of Hydrography and Topography:~~

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

Plane of reference approved in  
9 volumes of sounding records for

HYDROGRAPHIC SHEET 6876

Locality Mouth of Patuxent River: Point Patience to  
Cedar Point, Md.

Chief of Party: B. H. Rigg & Thos. B. Reed in 1943-44  
Plane of reference is mean low water reading  
3.0 ft. on tide staff at Solomons Island  
10.85 ft. below B. M. 4

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

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6876

FIELD NO. 101

Maryland, Chesapeake Bay, Mouth of Patuxent River  
Surveyed in Dec. 1943 to Feb. 1944 Scale 1:10,000  
Project No. CS-307

Soundings:

808 Fathometer  
Hand lead  
Pole

Control:

Three-point fixes on shore  
signals

Chief of Party - B. H. Rigg and T. B. Reed  
Surveyed by - J. E. Waugh and G. E. Russell, Jr.  
Protracted by - A. G. Atwill  
Soundings plotted by - A. G. Atwill  
Verified and inked by - T. A. Dinsmore  
Reviewed by - G. F. Jordan, April 5, 1946  
Inspected by - H. W. Murray

1. Shoreline and Signals

The shoreline originates from unreviewed air-photo manuscripts T-8542 and T-8543 which are compiled from 1942 photos.

The signals originate from graphic control survey T-6951a and b (1944) and from manuscript T-8543.

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves and Submarine Configuration

The mud bottom in this area is quite smooth except in the small areas of wavy bottom at lat.  $38^{\circ} 18.9'$ , long.  $76^{\circ} 24.5'$ , and in the passage outlined by the 30-ft. curves in the vicinity of lat.  $38^{\circ} 19.35'$ , long.  $76^{\circ} 22.7'$ . The 6-ft. ridges and troughs in the latter area apparently result from currents.

4. Junctions

A comparison with the two contemporary surveys will be made when these surveys are verified.

These surveys are H-6877 (1943-44) which joins upstream and H-6966 (1944) which joins on the east side of Solomons Island. Contemporary surveys on the east are contemplated this year.

5. Prior Surveys

a. H-209 (1848) 1:20,000; H-210 (1848) 1:20,000

The agreement with the present survey inside the 18-ft. curve is very good, but present depths are 2 to 4-ft. shoaler in 20 to 70-ft. depths.

b. H-2428 and H-2429 (1899) 1:40,000

Only one line on these reconnaissance surveys falls within the area of the present survey. The soundings on the line are in fair agreement.

c. H-2931 (1908) 1:20,000

Depths on this prior survey do not compare favorably with present depths. Depths on the present survey are 2 to 8-ft. shoaler, progressing from 20 to 70-ft. depths.

d. H-6684 (1941) 1:10,000

This recent survey shows small areas of hydrography south of Solomons Island and over the outer bar in the vicinity of lat. 38° 19.5', long. 76° 22.5'. Present fathometer depths are 2 to 4-ft. shoaler than the prior hand-lead depths. This survey is entirely superseded by the present survey.

The aforementioned prior surveys are entirely superseded within the area of the present survey.

6. Comparison with Chart 539 (Latest print of Oct. 6, 1945)  
Chart 553 (Latest print of Aug. 11, 1945)

a. Hydrography

The charted depths are in agreement with the present survey which was partially applied to the charts before verification.



- (1) The position of the charted wreck falling in 56-ft. depths at lat.  $38^{\circ} 18.9'$ , long.  $76^{\circ} 25.2'$ , is considered disproved on the present survey. This wreck was charted from H.O. Notice to Mariners No. 51 (1942) which reported the sinking of a barge. The origin of the report, description of barge and time of sinking were not given.

Investigation of a larger area by wire drag is advisable.

- (2) The pier which has been charted for several years at lat.  $38^{\circ} 17.7'$ , long.  $76^{\circ} 25.7'$  does not appear on T-8542, T-6951b, nor on a survey by the Navy shown on blueprint No. 38564 (1944). It is, therefore, considered non-existent.

b. Aids to Navigation

The aids located on the present survey agree with the charted aids except that three buoys were changed to lighted buoys after the survey was made. Additional quarantine and anchorages buoys have also been placed in the area.

7. Condition of the Survey

- a. The sounding records are complete; the descriptive report is comprehensive and the smooth plotting is excellent.
- b. The obstruction at lat.  $38^{\circ} 19.07'$ , long.  $76^{\circ} 28.4'$ , is described on the boat sheet as a steel and concrete target.

8. Compliance with Project Instructions

Satisfactory.

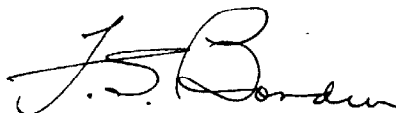
9. Additional Work

- a. The 10-ft. shoal falling in 24-ft. depths at lat.  $38^{\circ} 17.82'$ , long.  $76^{\circ} 27.05'$  is undeveloped. This shoal probably results from spoil material dredged from the basin to the south. Dredging was in progress at the time of the survey. The final least depth and limit of the spoil area should be determined.
- b. A wire drag examination should be made of the wreck discussed in par. 6a,(1) of this review.


Examined and approved:



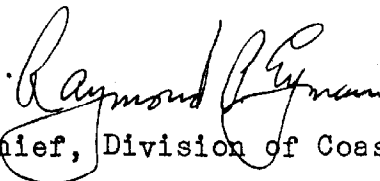
Chief, Nautical Chart Branch



Chief, Chart Division



Chief, Section of Hydrography



Chief, Division of Coastal Surveys



Chart 1224 - Examined before V&R - added  $\frac{1}{2}$  foot sounding and  
26 foot sounding - JFW 6/21/44

Chart 77 - applied before verification and review 7/28/44 ~~V&R~~

Critical sdgs. applied to Chrt. 553, before V. & R., 8-10-44 K.R.