

6963

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Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Hydrographic
Field No.	Special
Office No.	6963
LOCALITY	
State	Maryland
General locality	Patuxent River Chesapeake Bay
Locality	Off Hellen Creek Entrance Patuxent River
Lat. 38° 21' Long 76° 29'	
194 4.	
CHIEF OF PARTY	
Thos. B. Reed	
LIBRARY & ARCHIVES	
DATE	

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.

Field No. Special Survey for Navy

State Maryland

General locality Patuxent River
~~Chesapeake Bay~~

Locality Off Hellen Creek Entrance
~~Patuxent River, above Point Patience~~

Scale 1:2,000 Date of survey March 25, 1944

Instructions dated Survey made at request of Commanding Officer, Naval Mine Warfare
Test Base

Vessel M. V. COWIE

Chief of party Thos. B. Reed

Surveyed by G. E. Russell, Jr.

Soundings taken by ~~fathometer~~, graphic recorder, ~~hand lead, wire~~

Protracted by Thos. B. Reed

Soundings penciled by Thos. B. Reed

Soundings in ~~fathoms~~ feet at MLW ~~MLW~~

REMARKS:

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DESCRIPTIVE REPORT

Special Survey of a Small Area in the Patuxent River

This large scale hydrographic survey of a small area near Lat. $38^{\circ} 21'$, Long. $76^{\circ} 29'$ in the Patuxent River was made at the request of the Commanding Officer of the Naval Mine Warfare Test Base for a special Navy project. It was desired to determine as accurately as possible the relationship between the deep area (80 feet and over) and the edge of the 6 foot shoal; also the slope of the bottom from the shoal into deep water. A structure was to be placed on the edge of the shoal and a connection made by cables to instruments planted in the deep water. The purpose of the survey was to furnish information for the selection of sites for the structure and instruments.

Control for the survey consisted of five water signals, placed in a straight line and 200 meters apart on the shoal. The distance between signals was measured with a 200 meter wire. This wire was marked at 20 meter intervals and during the time of the sounding the wire was tied between various signals and small flags stuck in the bottom at 20 meter distances for use as front range markers in running the sounding lines. These range flags were moved forward by two men in a small boat as the hydrography progressed.

The soundings were obtained with an 808 fathometer, using a "fish" attached to the side of the skiff. The graph paper on which the bar checks were plotted and the corrections to the soundings determined is attached to this report.

No projection has been drawn on the smooth sheet as the graphic control sheet, on which the rear range marker (signal ONE) was located had been sent to the office and only an approximate position of this signal was available. The projection on the boat sheet is approximate only.

The projection can be drawn on the smooth sheet by taking the position of the Rear Range Marker from the graphic control sheet. The azimuth of the line of signals should be determined by adding the angle $122^{\circ} 14'$ to the azimuth of the line from the Rear Range Marker to triangulation station CREEK. Projection added.

A tracing of the boat sheet was furnished the Mine Test Station at the time of the survey and it is not necessary that a copy of the smooth sheet be furnished them.

The tidal reducers were from the standard gage at Solomons.

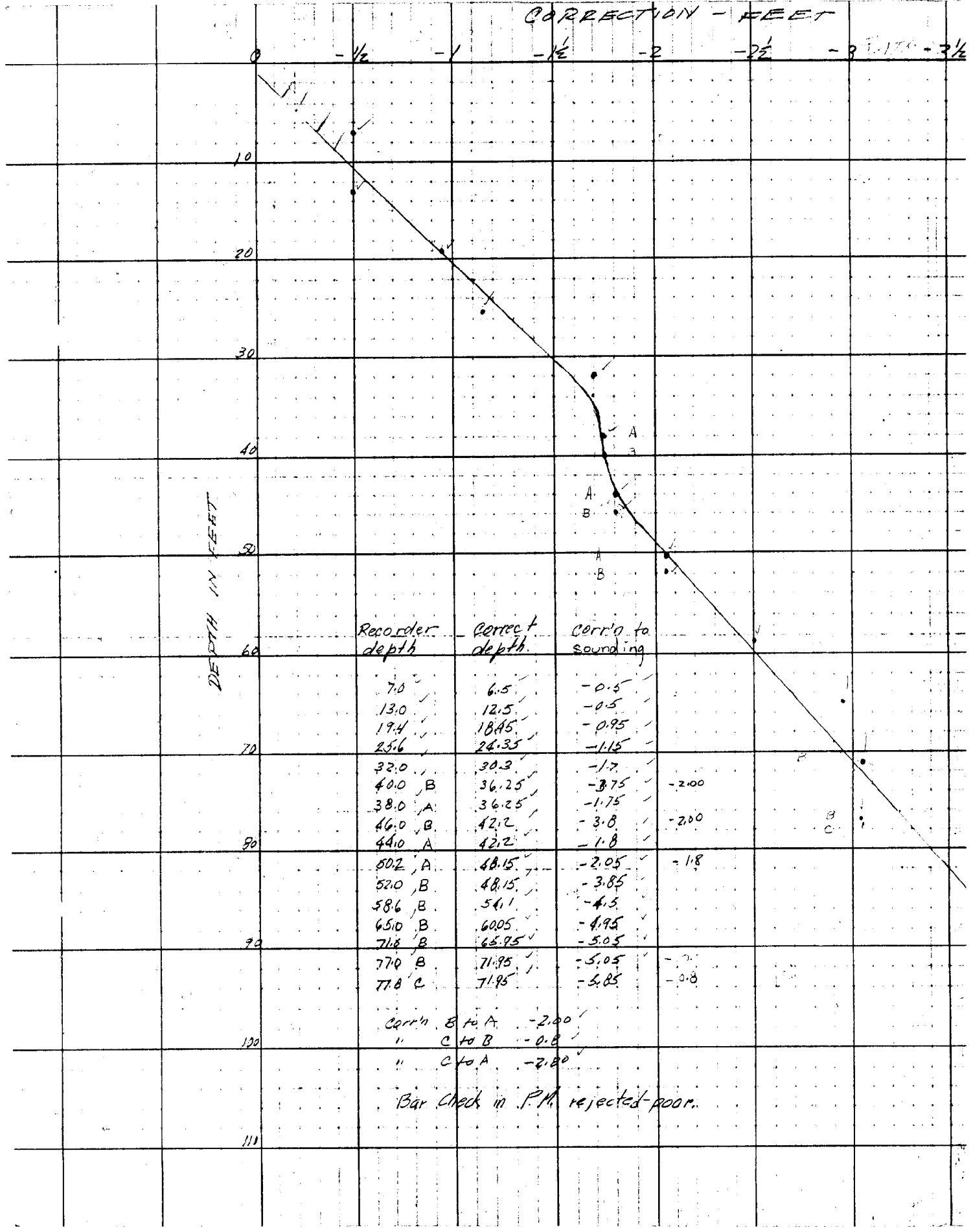
Respectfully submitted,



Thos. B. Reed
Chief of Party

CORRECTION - FEET

DEPTH IN FEET



FEET

2 1/2 - 3 1/4 - 4

0.0	0.0 - 2.5 ✓
-0.2	3.0 - 6.5 ✓
-0.4	7.0 - 10.5 ✓
-0.6	11.0 - 14.5 ✓
-0.8	15.0 - 18.5 ✓
-1.0	19.0 - 22.0 ✓
-1.2	22.5 - 26.0 ✓
-1.4	26.5 - 30.5 ✓
-1.6	31.0 - 35.0 ✓
-1.8	35.5 - 47.0 ✓
-2.0	47.5 - 51.0 ✓
-2.2	51.5 - 55.5 ✓
-2.4	56.0 - 60.0 ✓
-2.6	60.5 - 64.0 ✓
-2.8	64.5 - 69.0 ✓
-3.0	69.5 - 73.0 ✓
-3.2	73.5 - 78.0 ✓
-3.4	78.5 - 82.0 ✓
-3.6	82.5 - 86.0 ✓
-3.8	86.5 - 91.0 ✓
-4.0	91.5 - 95.5 ✓
-4.2	96.0 - 100.0 ✓
-4.4	100.5 - 104.5 ✓
-4.6	105.0 - 109.0 ✓

FOR B SCALE INCREASE CORR BY -2.00
FOR C SCALE INCREASE CORR BY -2.84

FATHOMETER CORRECTIONS

SPECIAL INVESTIGATION FOR NAVY
MARCH 25, 1944 SCALE 1:2000

JOP

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. ^{H6903}.....

Records accompanying survey:

Boat sheets .1.; sounding vols. 1.; wire drag vols.;
 bomb vols.; graphic recorder rolls .1....;
 special reports, etc.

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

Number of positions on sheet	.145.
Number of positions checked	.20..
Number of positions revised	..0..
Number of soundings recorded	.1160.
Number of soundings revised (refers to depth only)	..0..
Number of soundings erroneously spaced	..0..
Number of signals erroneously plotted or transferred	..0..
Topographic details	Time ..0..
Junctions	Time ..0..
Verification of soundings from graphic record	Time ..2..

Verification by *Alex B. Woolley* Total time .15 hours Date May. 22, 1945

Review by J. A. McCormick Time .8 hrs. Date .5/25/45.

GEOGRAPHIC NAMES

Survey No. **H6963**

Name on Survey	Sources										
	A	B	C	D	E	F	G	H	K		
Patuxent R.			383	764							1
Hellen creek											2
											3
											4
											5
											6
Solomon Island											7
											8
											9
											10
											11
											12
											13
											14
											15
											16
											17
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											19
											20
											21
											22
											23
											24
											25
											26
											27

name entered in 1855
by L. Heck 1861/45

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY }
 DESCRIPTIVE REPORT } No. H **H6963**
 PHOTOSTAT OF } No. T

{ received
 { 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			
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	
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VPWHC

RAC
7/19

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 24, 1944

~~Division of Hydrography and Topography:~~

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

Plane of reference approved in
1 volumes of sounding records for


HYDROGRAPHIC SHEET 6963

Locality Patuxent River, North of Point Patience, Md.

Chief of Party: Thos. B. Reed in 1944
Plane of reference is mean low water reading
3.0 ft. on tide staff at Solomons Island
10.9 ft. below B. M. 4

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

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. 6963

Maryland; Patuxent River; Off Hellen Creek Entrance
Surveyed in March 1944, Scale 1:2,000
Project - Special Survey

Soundings:

808 Fathometer

Control:

Three-point fix on shore signals

Chief of Party - T. B. Reed
Surveyed by - G. E. Russell
Protracted by - T. B. Reed
Soundings plotted by - T. B. Reed
Verified and inked by - G. B. Woolley
Reviewed by - J. A. McCormick
Inspected by - H. W. Murray, May 25, 1945

This is a special large-scale survey made at the request of the Navy. Control and method of fixing projection are explained in the Descriptive Report.

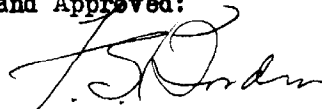
The area had already been surveyed on a 1-10,000 scale on H-6877 (1943-44) which has not yet been verified or inked. Comparison of the present survey with penciled soundings on H-6877 shows excellent agreement. Revision of Chart 553 can await the review of H-6877. There are no critical soundings on the present survey.

The rear range marker used as a starting point for the control is maintained by the Navy and is not to be charted. T-6961 (1943) shows a front marker 200 meters south of the rear but there is no mention of it nor Buey "S6" (charted in approximately the same position) in the records of the present survey. However, H-6877 shows the buey and both markers.

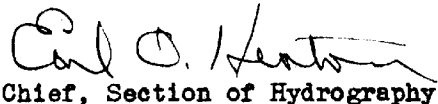
Examined and Approved:



Division of Charts



Chief, Division of Charts



Chief, Section of Hydrography



Acting Chief, Division of Coastal Surveys

Examined for critical sdgs. for Cht. 553., No Corr., 8-12-44 H.R.