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Form 504	
U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Hydrographic
Field No. 1242	Office No. 86778
LOCALITY	
State	Maryland
General locality	Chesapeake Bay
Locality	of South Holland Island
1942	
CHIEF OF PARTY	
I. E. Rittenburg	
LIBRARY & ARCHIVES	
DATE	

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. 16776

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. 1242

REGISTER NO. 16776

State MARYLAND

General locality CHESAPEAKE BAY

Locality South of Holland Island

Scale 1:10,000 Date of survey October, 1942

Vessel CCWIE

Chief of Party I. E. Rittenburg

Surveyed by R. H. Tryon and R. A. Gilmore

Protracted by L. L. Lawrence

Soundings penciled by L. L. Lawrence

Soundings in ~~fathoms~~ feet

Plane of reference M. L. W.

Subdivision of wire dragged areas by

Inked by G. R. Bryan

Verified by G. R. Bryan

Instructions dated July 14 & 31, 1942

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

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SHEET NO. H-6776

INSTRUCTIONS:

This survey was executed under authority of the Director's letter dated July 14, 1942, and Supplemental Instructions dated July 31, 1942, for Project No. CS-287. ✓

LOCALITY:

This sheet covers a priority area in the Chesapeake Bay, and was processed at the Norfolk Processing Office. ✓

SURVEY METHODS:

The usual control method of three-point fixes was used throughout. The shoal water portable recording fathometer, type 808, was used to obtain the soundings. ✓

CONTROL & SIGNALS:

Triangulation previously established furnished the primary control, while the topographic signals were gotten by graphic control. The hydrographic signals were gotten by sextant cuts which are listed in the sounding volumes. *Graphic Control sheet not registered (4/20/43)*

DISCREPANCIES:

The crossings in general are in good agreement; except for one or two instances the maximum discrepancies noted were 2 feet.

A charted sounding of 1 ft., Latitude $38^{\circ} 06.22'$ and Longitude $76^{\circ} 05.68'$ falls on 7 ft. This sounding falls on a relatively flat area and appears in error. *Change in bottom.*

A charted sounding of 7 ft., Latitude $38^{\circ} 06.43'$ and Longitude $76^{\circ} 05.05'$ falls in 5 ft. of water.

A charted 2 ft. sounding, Latitude $38^{\circ} 06.08'$ and Longitude $76^{\circ} 05.22'$ falls in 5 ft. of water. *Discrepancies with charted soundings are probably caused by changes in the bottom rather than for reasons given here.*

A charted 35 ft. sounding, Latitude $38^{\circ} 06.26'$ and Longitude $76^{\circ} 04.95'$ falls in 27 ft. of water. This sounding, however, is close to a 34 ft. sounding which is 0.1 mile to the northeast. *see Item 5 of Review*

A charted 24 ft. sounding, Latitude $38^{\circ} 05.95'$ and Longitude $76^{\circ} 05.14'$ falls in 4 ft. of water. This sounding falls on the edge of a steep slope and is about 0.1 mile southwest of a 23 ft. sounding on this survey.

A charted 3 ft. sounding, Latitude 38°05.71' and Longitude 76°05.55' falls in 7 ft. of water; however, it is close to a 5 ft. sounding on this survey.

A charted 20 ft. sounding, Latitude 38°05.70' and Longitude 76°05.19' falls in an area of 5 ft. of water. This sounding is 0.3 of a mile southwest of a comparable depth of this survey and appears to be out of position.

A charted 3 ft. sounding, Latitude 38°05.55' and Longitude 76°05.20' falls in an area of 5 ft. to 6 ft. However, this sounding is about 150 meters west of a 4 ft. ridge and is no doubt out of position somewhat.

A charted 15 ft. sounding, Latitude 38°05.58' and Longitude 76°04.95' falls in an area of 10 ft. to 11 ft. on this survey.

A charted 5 ft. sounding, Latitude 38°05.46' and Longitude 76°05.95' falls in a flat area of eight feet on this survey.

A charted 3 ft. sounding, Latitude 38°05.17' and Longitude 76°04.94' falls in an area of 5 ft. This sounding is about 150 meters south of a 4 ft. ridge and is evidently out of position.

A charted 6 ft. Shoal, Latitude 38°04.40' and Longitude 76°05.78' falls in an area of 8 to 9 ft. on this survey. No indication of this shoal was noted.

*6 ft sounding
retained - see
Item 5c of
Review*

COMPARISON WITH PREVIOUS SURVEY:

No comparisons were made, as no bromides of previous surveys were available at this office. ✓

CHANNELS:

Critical depth in the channel to Holland Straits is 7 ft
~~No channels were developed on this survey.~~ *in lat. 38°05.8' long. 76°05.0*

DANGERS:

No apparent dangers were found on this survey. ✓

JUNCTIONS WITH CONTEMPORARY SURVEYS:

H-6779(1942)

H-6775(1942)

This survey joins 1142 (field) on the north and 2142 (field) on the west.

Respectfully submitted,

Isadore M. Zeskind
Isadore M. Zeskind
Associate Cartographic Engr.

January 21, 1943
Norfolk, Virginia
Approved and Forwarded.

Paul C. Whitney
Supervisor, SE District

H6776

ADDENDUM

SHEET 1242 (Field) - PROJECT CS-287

This sheet covers a priority area in the Chesapeake Bay and was processed at the Norfolk Processing Office.

The crossings in general are in good agreement; except for one or two instances the maximum discrepancies noted were 2 feet.


The graphic control sheet showing the location of topographic stations will be forwarded to the Washington Office with Sheet 1142 (field) which is now being processed at this office.

TIDE DATA:

In accordance with the Director's letter of September 14, 1942, reference 36-McC, M.L.W. for use in the reduction of soundings on this sheet was determined from the automatic tide observations as corresponding to a reading of 2.0 ft. on the tide staff at Holland Bar Light House.

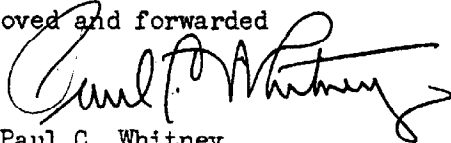
The descriptive report adequately covers this survey.

Respectfully submitted,


Isadore M. Zeskind,
Asso. Cartographic Engineer

Norfolk, Va.
December 9, 1942

Approved and forwarded


Paul C. Whitney
Supervisor, S.E. District

H6776

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. H6776

Records accompanying survey:

Boat sheets 179; sounding vols. (6)...; wire drag vols.; bomb vols.; graphic recorder rolls (4)...; special reports, etc.

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

Number of positions on sheet 1241..
Number of positions checked .38.
Number of positions revised ...0.
Number of soundings recorded .8751.
Number of soundings revised (refers to depth only) ...3.
Number of soundings erroneously spaced ...0.
Number of signals erroneously plotted or transferred ...3.
Topographic details Time .14..
Junctions Time
Verification of soundings from graphic record Time .14.7 1/2

Verification by George R. Ryan Total time 161 1/2 Date 1/16/43
Review by R.H. Carstens Time 20 1/2 Date 1/17/43

Remarks

Decisions

1		U.S.G.B
2		" 381760
3		"
4		U.S.G.B 380760
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GEOGRAPHIC NAMES

Survey No.

H6776

Name on Survey

	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K
<u>Chesapeake Bay</u>									1
<u>South Holland Island</u>									2
<u>Holland Straits</u>									3
<u>Holland Island Bar</u>									4
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Names underlined in red approved
by Holteck on 1/22/43

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT
~~PHOTOSTAT BOOK~~

No. H **H6776**
~~XXXXX~~

received **Dec. 12, 1942**
 registered **Dec. 14, 1942**
 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			
✓ 27	Pg 4	WED	Dr. Dorsey
30			
40			
62			
63			
✓ 82			
✓ 83	Pg 3	WED	Comdr Finnegan Mr. Walker check with chart 3330
88			
90			

RETURN TO

82	R.W.Knox
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Beuk

200
HRE

TIDE NOTE FOR HYDROGRAPHIC SHEET

Dec. 15, 1942.

~~Division of Hydrography and Topography:~~

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

Plane of reference approved in
6 volumes of sounding records for

HYDROGRAPHIC SHEET 6776

Locality South Holland Island, Chesapeake Bay, Md.

Chief of Party: I. E. Rittenburg in 1942
Plane of reference is mean low water reading
2.0 ft. on tide staff at Holland Island Bar Lighthouse
14.0 ft. below B. M. 3 (1942)

Height of mean high water above plane of reference is 1.4 ft.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6776

Field No. 1242

Maryland, Chesapeake Bay, South of Holland Island

Surveyed October 1942; Scale 1:10,000

Instructions dated July 14 and 31, 1942

Soundings:

Depth Recorder 808;

Sounding Pole

Control:

Sextant Fixes on Shore Signals

Chief of Party - I. E. Rittenburg

Surveyed by - R. H. Tryon; R. A. Gilmore

Protracted by - L. L. Lawrence

Soundings plotted by - L. L. Lawrence

Verified and inked by - G. R. Bryan

Reviewed by - R. H. Carstens

Inspected by - H. R. Edmonston

1. Signals and Shoreline

The shoreline and signals originate with T-8149 (1942) and a graphic control sheet (not registered 1-20-42). The sextant fixes for hydrographic signals are in Vol. 1 of the sounding records.

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves

Satisfactory.

4. Junctions with Contemporary Surveys

The junctions with H-6775 (1942) on the west and H-6779 (1942) on the north will be considered in the review of those surveys. Project surveys to the south and east have not been registered at this date.

5. Comparison with Prior Surveys

- a. H- 211 (1849) 1:20,000
H-1441 (1879) 1:40,000
-

In general, the area has deepened 2 to 4 feet since the early surveys were accomplished. The shoal area in Lat. $38^{\circ}04.0'$ has extended southward 250 to 300 meters and a channel now extends through the former bar in Lat. $38^{\circ}07.0'$; Long. $76^{\circ}04.5'$. The present survey should supersede these early surveys within the common area.

- b. H-2429 (1899) 1:40,000
H-2500 (1900-1901) 1:60,000
H-2616 (1901-1902) 1:20,000

Agreement with these surveys is fairly good. Numerous spots on the shoaler areas have deepened 1 to 3 feet as, for example, in Lat. $38^{\circ}06.1'$; Long. $76^{\circ}05.25'$ where former depths of 2 feet have washed to 4 to 5 feet. A 7-ft. bar has developed across the channel in Lat. $38^{\circ}05.8'$; Long. $76^{\circ}05.0'$ which formerly carried 14 to 16 feet of water. The present survey should supersede these earlier surveys within the common area.

- c. H-3379 (1912) 1:40,000

This survey covers that portion of the present survey west of Long. $76^{\circ}05.8'$. Depth agreement is, in general, very good. Certain shoal soundings, such as the 6ft. (charted 5ft. on 1224) in Lat. $38^{\circ}05.5'$; Long. $76^{\circ}04.9'$ have probably washed to 8 feet as shown on the present survey and were not carried forward. The 6-ft. sounding in Lat. $38^{\circ}04.45'$; Long. $76^{\circ}05.75'$ falls in a trough of 9 to 11 feet on the original survey. The sounding does not conform to the natural configuration of the bottom and may possibly be an obstruction. It was not disproved by the present survey and was carried forward. The present survey with the transferred sounding is considered adequate to supersede this earlier survey within the common area.

*6-ft. sdg.
disproved on
H-7781 (1949)*

6. Comparison with Chart 1224 (latest print date 10-21-42)

- a. Hydrography

The charted hydrography originates with the previously discussed surveys and needs no further consideration.

b. Aids to Navigation

The charted aid to navigation is in substantial agreement with the present survey position and satisfactorily marks the feature intended.

7. Condition of Survey

Satisfactory.

8. Compliance with Instructions for the Project

Satisfactory.

9. Additional Field Work Recommended

When work is again resumed in this area the holiday in Lat. $38^{\circ}04.2'$; Long. $76^{\circ}04.9'$ should be surveyed and the 6-ft. depth in Lat. $38^{\circ}04.45'$; Long. $76^{\circ}05.75'$ from H-3379 should be verified or disproved by additional hydrography.


*Add'l. work accomplished; 6-ft. sdg. disproved.
see Review of H-7781 (1949)*

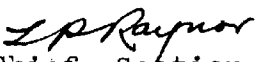
10. Superseded Surveys

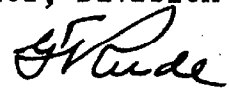
H- 211 (1849)	in part
H-1441 (1879)	" "
H-2429 (1899)	" "
H-2500 (1900-1901)	" "
H-2616 (1901-1902)	" "
H-3379 (1912)	" "

Examined and approved:


Chief, Surveys Branch


Chief, Division of Charts


Chief, Section of Hydrography


Chief, Division of
Coastal Surveys

STATISTICS

Day	Number Positions	Number Soundings	Miles Sdg. Lines
a (blue)	21	181	4.9
b (blue)	140	991	27.5
c "	154	1002	28.5
d "	201	1120	29.7
e "	128	695	18.1
a (green)	15	104	3.3
b "	136	1009	29.1
c "	128	957	30.9
d "	115	884	28.2
e "	107	922	21.2
f "	<u>96</u>	<u>886</u>	<u>17.3</u>
	1241	8751	238.2

applied to chart	1224	6/8/43	JHE.	
"	"	3330	2-21-45	X.P.
"	"	555	11/20/52	Sam