

# 6956

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. 1713 Office No. H-6956

### LOCALITY

State Maryland

General locality Chesapeake Bay

Locality Taylors Island

194 4-45

CHIEF OF PARTY

L. P. Raynor, Comdr.

LIBRARY & ARCHIVES

DATE Nov. 20, 1945

B-1870-1 (11)

# 6956

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

H6956

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. 6956

Field No. 1713

State Maryland ✓

General locality Chesapeake Bay ✓

Locality West of Taylors Island ✓

Scale 1:10,000 Date of survey January 1944 - <sup>May</sup> April 1945 ✓

Instructions dated April 17, 1940; Sept. 18, 1942; Sept. 23, 1943

Vessel LYDONIA, Launches Nos. 79 and 100

Chief of party L. P. Raynor and T. B. Reed ✓

Surveyed by J. Bowie, Jr., H. J. Healy, R. C. Darling, C. J. Wagner, <sup>1944</sup> T. B. Reed ✓

Soundings taken by ~~fathometer~~ graphic recorder, hand lead, and sounding pole ✓

Protracted by M. Miller and A. G. Atwill ✓

Soundings penciled by J. D. Curd & A. G. Atwill ✓

Soundings in ~~fathoms~~ feet at MLW ~~MLLW~~ ✓

REMARKS: Field work conducted only during winter periods, and in conjunction with other surveys.

This survey was processed in the Hydrographic Section of the S. E. District, Norfolk, Va.

DESCRIPTIVE REPORT TO ACCOMPANY  
(1944-45)  
HYDROGRAPHIC SURVEY H-6956 (Field No. 1713) - Scale 1:10,000

Ship LYDONIA

Launch 100  
" 79

L. P. Raynor  
Commanding Officer

Surveyed by: J. Bowie, Jr.  
H. J. Healy  
R. C. Darling

- A. PROJECT. Project CS-250. Original Instructions from the Director dated, April 17, 1940. Additional Instructions dated, September 18, 1942 and September 23, 1943.
- B. SURVEY LIMITS AND DATES. The general locality of the survey is the Chesapeake Bay, off Taylors Island, Eastern Shore, Maryland. Field work began January 6, 1944 and ended <sup>May 17</sup> April 10, 1945. The survey is bounded on the East by Taylors Island; on the West by Sheet 6953 (Field No. 223), and extends between Lat.  $38^{\circ} 16' 28.5''$  and  $38^{\circ} 24' 1''$ . To the North and South of these limits are previous surveys used to compile Chart 1225, dates unknown.
- C. VESSELS AND EQUIPMENT. Launches Nos. 79 and 100 were used for the survey, operating from the ship. Both launches were equipped with portable depth recorders, type 808, Nos. 55, 75, and 76.
- D. TIDE STATIONS. A portable tide gage located at Long Beach, Md., was used for obtaining data for the reduction of soundings to MLW.
- E. SMOOTH SHEET. See Norfolk Processing Office.
- F. CONTROL STATIONS. No triangulation was executed by the personnel of the ship for this project. Signals were obtained from air photographic ozalid sheets furnished by the Washington Office, topography by plane-table, (See report Nos. G. & H. by Lieut. Comdr. C. R. Reed), and hydrographic signals located by sextant cuts. The latter are BEA - B, BEA - C, RED, DUG, HAR, RIN, and TON. These signals were located by topography after the hydrography was completed. \* T-6981, T-6982 (1945)
- G. SHORELINE AND TOPOGRAPHY. The shoreline was surveyed by planetable to locate signals needed for adequate control of launch hydrography and to correct for erosion noted on the photographic ozalid caused by storms since the photographs were taken. Partially submerged snags, stumps, and trees prevented the launches from obtaining the zero foot curve in most places. T-6981 (1945)  
T-6982 (1945)
- H. SOUNDINGS. Depths were measured by 808 portable depth recorders and by sounding pole in shallow waters. Lines were spaced 100 meters apart.
- I. CONTROL OF HYDROGRAPHY. Control of hydrography was obtained by means of three-point fixes from sextant angles.

- J. ADEQUACY OF SURVEY. The survey is not quite complete. A half day's launch work remains to run splits and developments in the southern portion of the sheet. \*This work is to be done by the M.V. COWIE in accordance with information received from the Director (letter dated April 17, 1945). Junctions with ~~Field Sheet 223~~ are satisfactory. \*This work accomplished by T.B. Reed, May 24, 1945, and is now plotted.
- K. CROSSLINES. Crosslines constitute 12%. Satisfactory crossings were obtained.
- L. COMPARISON WITH PREVIOUS SURVEYS. Junctions with Field Sheet 223 are in satisfactory agreement. H-6953 (1943-45)
- M. COMPARISON WITH CHART. In general, soundings are a few feet deeper than the depths shown on Chart 1225. The one fathom curve is closer inshore than on the chart. For example, the one foot charted depth at Lat. 38° 24.9', Long. 76° 17.75' no longer exists. Closely spaced lines show a 7 foot depth in this particular locality. It is recommended that this one foot depth be deleted from the chart, and that the new survey supersede all prior surveys for the areas involved.
- N. DANGERS AND SHOALS. No new dangers or shoals exist unless 5 temporary fish traps are considered as such. The fish traps are in depths of less than three fathoms.
- O. COAST PILOT INFORMATION. No information of importance in areas covered. The bottom is generally sandy. Ships can anchor anywhere in good weather where depths are adequate.
- P. AIDS TO NAVIGATION. *None permanent aids at time of survey*
- Q. LANDMARKS FOR CHARTS. None.
- R. GEOGRAPHIC NAMES. No new names. *BY*
- S. SILTED AREAS. None.
- T. BY-PRODUCT INFORMATION. None.
- U. MISCELLANEOUS. Boat sheets and records are to be sent to the Supervisor, Southeastern District, for processing and smooth sheet work. Vol. No. 1, containing recordings for January 1944, has already been submitted.

2. TABULATION OF APPLICABLE DATA STATISTICS.

Date	Day	Launch	Vol.	Sdgs.	Pos.	Statute Miles
1/6/44	a	79	1	3	45	9.0
1/12/44	b	79	1	1	23	1.9
1/14/44	c	79	1	3	182	28.2
1/8/45	a	100	2	-	14	2.4
1/11/45	b	100	2	-	61	9.3
3/26/45	c	100	2	-	154	20.1
3/27/45	d	100	3	-	171	26.9
3/28/45	e	100	3&4	142	165	28.9
3/29/45	f	100	4	122	139	24.2
3/30/45	g	100	5	-	91	19.0
4/8/45	h	100	5	-	141	25.4
3/29/45	d	79	6	2	216	30.8
3/30/45	e	79	6	1	113	17.0
4/8/45	f	79	7	2	207	28.6
4/9/45	j	100	8	41	151	26.3
4/10/45	k	100	9	-	120	23.9
4/9/45	g	79	10	3	134	18.0
4/10/45	h	79	11	4	11	0.6
TOTALS				324	2,138	340.5

Total area of Hydrography: 16.5 Square Statute Miles.

TIDAL NOTE. Hydrographic Sheet No. 6956 ✓

Plane of Reference: Mean Low Water. ✓

The portable automatic tide gage at Long Beach, Md., should be used to determine tide reducers for all soundings on this sheet. ✓

Position of Tide Gage at Long Beach, Md.: Lat. 38° 27.91' Long. 76° 28.27'

MLW on staff: 3.7

SIGNAL LIST. H 6956

T-6981  
TOPOGRAPHIC SHEET G ( "JIM" N)

RED ✓ Ape ✓ Sun ✓  
PAN ✓ Bow ✓ Top ✓  
DUC ✓ Gum ✓ Walt ✓  
TON ✓ Jim ✓ Woo ✓  
RIN ✓ Pin ✓  
BEA-C ✓ Ray ✓  
~~HAR~~  
BEA-B ✓

T-6982  
TOPOGRAPHIC SHEET H ( "JIM" S)

SEIS ✓ DOS ✓ AXE ✓ RAM ✓ Teal ✓  
CIN ✓ EGG ✓ OX ✓ WEE ✓  
QUAT ✓ FUN ✓ COW ✓ LAR ✓  
VAN ✓ PET ✓ FAT ✓ UNO ✓  
IKE ✓ GUT ✓ MET ✓  
TRES ✓ KAY ✓ INN ✓ Ate ✓  
BIT ✓ JAR ✓ OUT ✓ Dig ✓  
CUR ✓ ROOK ✓ Mum ✓

AIR PHOTOGRAPHIC COMPILATION T-8110

WALT ✓ PIN ✓ GUM ✓  
APB ✓ BOW ✓ JIM ✓  
WOO ✓ RAY ✓ MUM ✓  
TOP ✓ SUN ✓ CORN ✓

T-5718

BAN ✓ END ✓

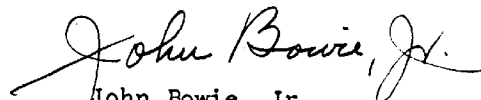
T-8117

Triangulation TAR  
MILLS, 1934


Hydrographic

Har  
Vex

Respectfully submitted,

  
John Bowie, Jr.,  
Lieut. Comdr., USC&GS.

Approved and forwarded,

  
L. P. Raymond,  
Comdr., USC&GS,  
Comdg. Officer, Ship LYDONIA.

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET NO. 6956 (Field 1713)  
for 1944 work

Since no descriptive report was written by the field party, this report is written in lieu of same. *See foregoing report subsequently submitted*

INSTRUCTIONS:

This survey was executed under authority of the Director's Additional Instructions, dated September 18, 1942, and Supplemental Instructions dated September 23, 1943 for Project CS-250. ✓

LOCALITY:

This survey is located in the Chesapeake Bay west of Taylor's Island. ✓

CONTROL & SIGNALS:

The topographic signals were taken from air-photo compilations, while the hydrographic signals were gotten by sextant fixes. ✓

SURVEY METHODS:

The usual method of three-point fixes was used throughout this survey. The soundings were obtained by means of the 808 fathometer. ✓

DISCREPANCIES:

No apparent discrepancies appear on this survey. ✓

DANGERS:

None appear within the limits of this survey. ✓

MISCELLANEOUS:

This survey is not complete. A comprehensive descriptive report *now complete* should be written for this survey when it is completed.

Respectfully submitted,

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

Norfolk, Va.  
August 9, 1944

Approved and Forwarded

*Paul C. Whitney*

Paul C. Whitney  
Supervisor, S.E. District

STATISTICS SHEET H-6956 (1713)

DATE	DATE	LAUNCH	NO. SOUNDINGS H.L. & POLE	NO. POSITIONS	STATUTE MI. SDG. LINES.
1944					
Jan. 7	a	79	3	45	9.0
Jan. 12	b	79	1	23	1.9
Jan. 14	c	79	<u>3</u>	<u>182</u>	<u>28.2</u>
TOTALS			7	250	39.1

Area in square statute miles 1.3

TIDE NOTE

Tide reducers for this survey were furnished by tide station at Long Beach, Maryland, ( 3 miles south of Kenwood Beach).

Mean Low Water on staff was 3.7 feet.



A D D E N D U M


to accompany

HYDROGRAPHIC SURVEY H-6956 (Field No. 1713)

It was necessary to transfer topo signal MET from the Boat sheet to the smooth sheet, as its location was not shown on any topo sheet available at this office.

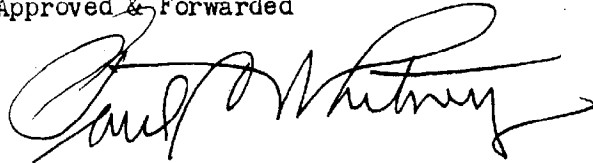
Station on T-6982 (1945), but was not circled or named thereon.  
Positions check.

Respectfully submitted,

  
Isadore M. Zeskind  
Cartographic Engineer

Norfolk, Va.  
November 16, 1945

Approved & Forwarded



Paul C. Whitney  
Supervisor SE District

GEOGRAPHIC NAMES

Survey No. 6956

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>									US&B	1
<u>Taylor's Island</u>									"	2
										3
										4
										5
										6
										7
										8
										9
										10
<u>Long Beach</u>										11
										12
<u>Taylor's Island (village)</u>									US&B	12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red approved  
by L. Heck on 12/30/46

(location of one tide staff)

Remarks

Decisions

	Remarks	Decisions
1		
2		
3		
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RAC  
HCE

TIDE NOTE FOR HYDROGRAPHIC SHEET

August 22, 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 6956

Locality West of Taylors Island, Chesapeake Bay, Maryland.

Chief of Party: L. P. Raynor in 1944  
Plane of reference is mean low water reading  
3.7 ft. on tide staff at Long Beach  
6.8 ft. below B. M. 1

Height of mean high water above plane of reference is 1.0 feet.

Condition of records satisfactory except as noted below:

*E K Green*

Chief, Division of Tides and Currents.

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. **H6956**

Records accompanying survey:

Boat sheets 141.; sounding vols. 1 & 12.; wire drag vols. ....;  
 bomb vols. ....; graphic recorder rolls 3 & 16; total 19  
 special reports, etc. *1. Bar check graph.*  
 .....

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

Number of positions on sheet		250 & 1888
Number of positions checked		.52 & 161
Number of positions revised		..... 2
Number of soundings revised (refers to depth only)		.35 & 21
Number of soundings erroneously spaced		.12 & 36
Number of signals erroneously plotted or transferred		..... 0
Topographic details	Time	.1 hr. & 2
Junctions	Time	..... 12
Verification of soundings from graphic record	Time	.1 hr. & 4
Verification by <i>B. H. Williams</i>		124 Oct. 24, 1946
Verification by <i>Allen B. Woolley</i>	Total time	.52 hours Date March 21, '45
Reviewed by <i>J. F. Jordan</i>	Time	.17 Date 12 Nov. 1946

*Mum*

# TIDE NOTE FOR HYDROGRAPHIC SHEET

28 March 1946

~~Division of Hydrography and Topography:~~

Division of Charts: H. W. MURRAY

Plane of reference approved in  
13 volumes of sounding records for

HYDROGRAPHIC SHEET 6956

Locality Chesapeake Bay - Taylors Island

Chief of Party: L. P. Raynor and T. B. Reed in 1944-1945

Plane of reference is mean low water, reading

3.7 ft. on tide staff at Long Beach

15.1 ft. below B. M. 2

3.0 ft. on tide staff at Taylors Island

3.5 ft. below B. M. 1

Height of high water above plane of reference is 1.1 feet

Condition of records satisfactory except as noted below:

*E. J. Green*

Chief, Division of Tides and Currents.

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6956

FIELD NO. 1713

Maryland, Chesapeake Bay, West of Taylors Island  
Surveyed in January 1944 to May 1945 Scale 1:10,000  
Project No. CS-250

Soundings:

808 Fathometer  
Pole

Control:

Three-point fixes on shore  
signals

Chief of Party - L. P. Raynor and T. B. Reed  
Surveyed by - T. B. Reed, J. Bowie, Jr., H. J. Healy,  
C. J. Wagner and R. C. Darling  
Protracted by - M. Miller and A. G. Atwill  
Soundings plotted by - J. D. Curd and A. G. Atwill  
Verified and inked by - G. B. Woolley and B. G. Williams  
Reviewed by - G. F. Jordan, November 12, 1946  
Inspected by - H. W. Murray

1. Control and Topographic Detail

Signal control originates with plane table surveys T-6981 and T-6982 of 1945 and with additional stations from air photographic surveys T-8110, T-8117 and T-5718.

Shoreline from T-6981 and T-6982 is supplemented by shoreline from T-8110 and T-8117.

2. Bottom Configuration and Depth Curves

The bottom is generally smooth except for sand waves and for irregularities outside the 12-ft. curve.

Depth curves could be satisfactorily drawn.

3. Sounding Line Crossings

Satisfactory.

4. Adjoining Surveys

Satisfactory junctions are effected on the west and north with H-6953 (1943-45) and H-7065 (1945), respectively. Southern limits of the present survey are the southern limits of the project survey (continued - joins H-7154 (1946))

5. Comparison with Prior Surveys

H-199 and H-209, surveys of 1848 on scales 1:20,000

Depths outside 4 to 6-ft. curves on the prior surveys show fair agreement with depths on the present survey. Inshore disagreements are coincidental with recession of the shoreline. The present 6-ft. curve now falls in some places where the shoreline of 1848 is shown. A recession of about 400 meters is indicated along the shoreline generally.

The present survey supersedes these prior surveys.

H-2428 and H-2429, surveys of 1899 on scales 1:40,000

These small-scale reconnaissance surveys show fair agreement of depths with the present survey.

These prior surveys are superseded except for bottom characteristics which have been carried forward.

6. Comparison with Chart 553 (Print date of May 25, 1946)

a. Hydrography

Charted hydrography originates with the aforementioned prior surveys and with partial application of the present survey before verification. Charted hydrography is completely superseded by the present survey within the common area.

b. Aids to Navigation

Uncharted beacons at lat.  $38^{\circ} 27.01'$ , long.  $76^{\circ} 19.89'$ , and lat.  $38^{\circ} 27.75'$ , long.  $76^{\circ} 20.50'$  are apparently temporary markers.

The charted light at lat.  $38^{\circ} 26.15'$ , long.  $76^{\circ} 19.71'$ , was placed in June 1945, subsequent to the present survey.

7. Condition of the Survey

a. The sounding records and Descriptive Report are complete in all detail.

b. Smooth plotting was well executed.



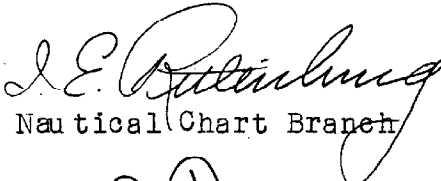
8. Compliance with Project Instructions

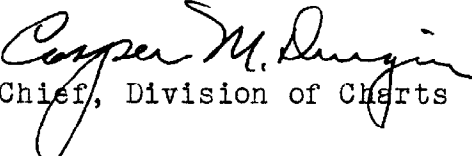
Satisfactory.

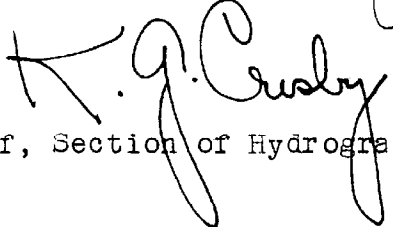
9. Additional Field Work Recommended


This is a basic survey and no additional field work is required.

Examined and approved:

  
Chief, Nautical Chart Branch

  
Chief, Division of Charts

  
Chief, Section of Hydrography

  
Chief, Division of Coastal Surveys

# NAUTICAL CHARTS BRANCH

SURVEY NO. H-6956

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
7-6-'45	553	<i>P.H. Andrew</i>	Before <del>After</del> Verification and Review <i>Partially applied</i>
			Before After Verification and Review
10/18/44	1225	H. J. S.	Before inking. partially
			Before After Verification and Review
12/21/45	3331	<i>H. MacEwen</i>	Before <sup>inking</sup> <del>After</del> Verification and Review
2/25/46	553	<i>G.C. McGlasson</i>	" " " Exam. for critical depths only. (per G.R.)
4/3/46	1274	<i>H.F. Stegman</i>	Before <del>After</del> Verification and Review Examined for critical sdgs - No Corr'n.
1-23-48	77	G.H.E.	<del>Before</del> After Verification and Review Partial.
4/1/51	553	<i>H.F. Stegman</i>	<del>Before</del> After Verification and Review Fully applied to reconstruction drug.
11/13/51	3331	<i>H.F. Stegman</i>	<del>Before</del> After Verification and Review Completely applied.
2/26/64	77	<i>O. Branden</i>	<del>Before</del> After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

Partially applied to Chart 1225 before  
sinking Oct 18-1944 H.F.L.