

7002

7002

Form 504	
U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE	
<b>DESCRIPTIVE REPORT</b>	
Type of Survey	Hydrographic
Field No. 713	Office No. H - 7002
LOCALITY	
State	Maryland
General locality	Choptank River
Locality	Tred Avon River & Island Creek
194 4	
CHIEF OF PARTY	
L. P. Baynor, Commander, USC&GS	
LIBRARY & ARCHIVES	
DATE	JUL 20 1945

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. H7002

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. 713

REGISTER NO. H - 7002

State MARYLAND

General locality CHOPTANK RIVER, CHESAPEAKE BAY

Locality TRED AVON RIVER and ISLAND CREEK

Scale 1:10,000 Date of survey Nov. 1 - Dec. 14, 1944

Vessel LYDONIA - Launches Nos. 79 and 100

Chief of Party L. P. Reynor, Commender, USC&GS

Surveyed by Lt. Comdr. Henry J. Healy & Lt. Comdr. G. W. Lovesee

Protracted by B.M. Jones

Soundings penciled by B.M. Jones

Soundings in ~~fathoms~~ feet

Plane of reference Mean Low Water

Subdivision of wire dragged areas by

Inked by R.K. DeLawder

Verified by R.K. DeLawder

Instructions dated April 17, 1940; Sept. 18, 1942; Sept. 23, 1943, 19

Remarks: This sheet was processed in the Hydrographic Section of the S.E. District, Norfolk, Va.

DESCRIPTIVE REPORT TO ACCOMPANY  
HYDROGRAPHIC SHEET H - 7002 (Field No. 713 - Scale 1:10,000)  
Tred Avon River and Island Creek  
Chesapeake Bay Maryland

Ship LYDONIA L. P. Raynor, Commanding

Surveyed by: Henry J. Healy  
George W. Lovesee

A. PROJECT: The authority for this survey is contained in the instructions from the Director for Project No. CS-250, dated April 17, 1940. Additional instructions dated Sept. 18, 1942; supplemental instructions dated Sept. 23, 1943.

B. SURVEY LIMITS AND DATES: This survey is a complete resurvey of the Tred Avon River from up to a junction with Hydrographic Sheet Field No. 113, and a resurvey of Island Creek. The outer limits of this sheet makes a junction with the contemporary surveys made in the Choptank River on Hydrographic Sheet Field No. 813 and Sheet Field No. 513, in the vicinity of Choptank River Light. Field work was begun on Nov. 1, 1944, and completed Dec. 14 1944. (H-7003) (1944) (H7001) (1944-45) (H7010) (1942-44)

C. VESSELS AND EQUIPMENT: Launch No. 100, Lt. Comdr. G. W. Lovesee in charge, surveyed the upper end of the Tred Avon River between Lat.  $38^{\circ} 42 \frac{3}{4}'$  and Lat.  $38^{\circ} 44'$ , and Trippe Creek. The 808 Fathometer No. 76 was used to procure the soundings. A sounding pole was used to supplement the echo sounding when in shoal water. Launch No. 79, Lt. Comdr. Henry J. Healy in charge, surveyed the balance of this hydrographic sheet. 808 Fathometer No. 75 was used to procure the soundings. The sounding pole was used very little as the fathometer gave good results throughout the work. The sounding pole was used, however, to determine the character of the bottom up in the heads of the bights. Both these launches were based on the Survey Ship LYDONIA, which was anchored off Choptank River Light in the Choptank River.

D. TIDE AND CURRENT STATIONS: A portable automatic tide gage was in operation at Oxford, Maryland, throughout the period this survey was in progress. Tide reducers from this gage should be used to reduce all soundings for this area.

E. SMOOTH SHEET: The smooth sheet for this survey will be plotted by the Norfolk Processing Office.

F. CONTROL STATIONS: Four triangulation stations were recovered and used; the balance of the control was taken from Air Photo Sheets T-5712 and T-5714 and T-5717. Ten Hydrographic Signals were used; these are indexed in the front part of Volume No. 1.

G. SHORELINE AND TOPOGRAPHY: The shoreline and topographic features were taken from Air Photo compilations forwarded the Commanding Officer by the Washington Office. No additional topography was found necessary.

- H. SOUNDINGS: Practically all soundings were obtained with 808 Fathometers which were in operation in the sounding launches while the work was in progress. The sounding pole was used in Launch No. 100 when in water too shoal to record on the fathogram. The sounding pole was used very little on Launch No. 79 because the results obtained in the shoal water with the 808 Fathometer were very good.
- I. CONTROL OF HYDROGRAPHY: Three point fixes were used to control the sounding lines of this survey where ever possible. In the upper part of Island Creek, east of Long.  $76^{\circ} 06.5' W$ , practically all positions are marked S. B. S. (See Boat Sheet). The positions were spotted on the boat sheet from the topographic features along the shoreline. It is the opinion of the hydrographer that these positions are sufficiently accurate for charting purposes and should be accepted when the smooth sheet is being protracted. Many of these positions marked "S. B. S." will be found in the small inlets and bights along the creek.
- J. ADEQUACY OF SURVEY: The hydrographic work contained on this sheet is a complete resurvey, should supersede all prior surveys and be used for charting purposes. The three, six, twelve, eighteen, and twenty-four, thirty, and thirty-six foot depth curves are delineated on the boat sheet.
- K. CROSSLINES: No definite system of crosslines was run, but where lines did cross it was found that the soundings were in good agreement.
- L. COMPARISON WITH PREVIOUS SURVEYS: H-2622, surveyed in 1902 on a scale of 1:20,000, is the only previous survey of this area. The agreement is very good. The present survey is in greater detail.
- M. COMPARISON WITH CHART: The area of this survey is part of Chart No. 1225, scale 1:80,000. The big difference in scale between this survey and Chart No. 1225 makes it impossible to make an adequate comparison.
- N. DANGERS AND SHOALS: Tred Avon River; The only danger in this area is a small gravel bank which bares  $1/2$  foot at MLW, lying in Lat.  $38^{\circ} 42.18' N$ , Long.  $76^{\circ} 08.60' W$ . This is the same spot that appears on Chart 1225 and is also shown on the previous survey made in 1902.  
Island Creek (entrance); There are no dangers in this creek after passing through the entrance.
- O. COAST PILOT INFORMATION: The entrance to Island Creek by two beacons No. 2516 and No. 2517 (from Light list). These lights are hydro signals Dug and Bea as shown on this sheet. The cut through the entrance to Island Creek has a least depth of 6 feet at MLW. This channel should not be used without local knowledge, as the channel is very narrow near beacon No. 2517 the width being not greater than 25 meters. The sides of the cut are hard sand and shell.  
To enter Island Creek keep Black Beacon No. 2156 30 yards to port on a course of  $46\frac{1}{2}^{\circ}$  True and pass Red Beacon No. 2157 10 meters to starboard. After passing through the entrance 8 feet can be carried well up into creek.

Notes made for Section C page 204 1815 1/2/15

\* Smooth sheet shows least depth of 9 ft. thru cut.

Confirmed by Lyons. R.H.C.

- P. AIDS TO NAVIGATION: The floating aids to navigation in the Tred Avon River were located and are indexed in the front part of Volume 1. The positions for Black Beacon No. 1 and Red Beacon No. 4 in Town Creek are given on page 63, Volume 3 of this sheet.
- Q. LANDMARKS FOR CHARTS: No additional landmarks are recommended other than the present Aids to Navigation.
- R. GEOGRAPHIC NAMES: No additional geographic names are recommended.

Statistics, Tidal Note, and List of Signals are appended.

Respectfully submitted,

*Henry S. Healy*  
Henry S. Healy, Lt. Comdr. USC&GS

*George W. Lovesee*  
George W. Lovesee, Lt. Comdr. USC&GS

ADDENDA

I CONTROL OF HYDROGRAPHY. In Trippe Creek Launch #100, in charge of Lieut. Comdr. George W. Lovesee, used bearing and distance for the control of the sounding lines. Bearings were obtained with an azimuth circle on a boat compass and distances from definite objects ashore obtained by use of a range finder. The proper notes are recorded in the sounding volumes for this area.

*Range finder not used in Trippe Cr. Positions  
by usual 3 point fix  
RAC*

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H-7001  
(1944-45)

H-7002  
(1944)

BOONE CREEK. Boone Creek was surveyed by Lieut. Comdr. George W. Lovesee on sheet #613. It is recommended that the limits of the smooth sheet for Field Sheet #713 be extended westward to include this creek. The data for Boone Creek is contained in Volume 3, pages 15 to 27, positions 55d -117d. Proper notes will be found in the sounding volume.

*Boone Cr survey plotted on H-7001  
RDG*

*George W. Lovesee*

The foregoing Descriptive Report with Addenda is forwarded approved with the following note.

Range finder readings are believed to be correct within 1 or 2 meters when the distance is 100 meters or less, within 2 to 5 meters when distances are between 100 meters and 150 meters, and perhaps within 10 meters when distances are between 150 meters and 200 meters. Distances greater than 200 meters are considered unreliable and positions should be plotted as shown on the boat sheets.

*L. P. Raynor*

L. P. Raynor  
Commander, USC&GS  
Commanding Ship LYDONIA

TIDAL NOTE

The portable automatic tide gage at Oxford, Maryland, should be used to determine the tidal reducers for all the soundings on this sheet.

POSITION OF STATION

Latitude 38° 41.6' N  
Longitude 76° 10.4' W  
M.L.W. on Staff - 5.5'  
M.L.W. on Marigram - 2.5'

STATISTICS

Hydrographic Sheet Field No. 713

Date:	Day:	Vessel:	Volume:	Soundings:	Positions:	Stat. Miles:
Nov. 1, 1944	a	100	I	10	125	16.0
Nov. 2, 1944	b	100	I	36	96	10.4
Nov. 3, 1944	c	100	II	2	106	14.0
Nov. 14, 1944	a	79	III	0	124	14.0
Nov. 15, 1944	b	79	III	2	115	16.0
Nov. 16, 1944	c	79	III&IV	1	90	12.1
Nov. 17, 1944	d	79	IV	50	76	7.2
Nov. 18, 1944	e	79	V	1	187	16.5
Nov. 19, 1944	f	79	V&VI	0	194	22.9
Nov. 29, 1944	g	79	VI	0	19	2.3
Dec. 6, 1944	h	79	VI	0	86	14.9
Dec. 14, 1944	j	79	VI	0	12	2.8
<b>TOTALS:</b>				<b>102</b>	<b>1,230</b>	<b>149.1</b>

**AREA:** 3.5 square statute miles

**NOTE:** ~~Plot positions 55d to 107d, Sheet No. Field 613 (Boone Creek),  
on Smooth Sheet No. Field 713.~~



BEST OF SIGNALS USED - SHEET FIELD NO. 713:

TRIANGULATION:

All, Md. Shellfish Survey, 1910 (ALL)  
Mud, " " " , 1910 (MUD)  
Spin, " " " , 1910 (SPIN)  
Tall, " " " , 1910 (TALL)

TOPOGRAPHIC SHEET T-5712:

ACE	MID
ADD	MUG
APE	NAN
ASK	NAT
BOB	NEW
BOX	NOR
CAB	OLD
CAW	OUT
COO	PAD
<del>COO</del>	PAD
DOT	PAW
DUN	PIT
ELM	POP
END	RAN (POR, Sheet 813)
FEW	RAT H-7010 (1942-44)
FLO	RIG
GEM	RUM
GET	SAD
GIN	SAL
GUY	SAM
HAG	SET
HAT	SIS
JOB	SOX
JOE	TAG
JUT	TAX
LOG	VIM
MAN	WAR
MAR	WAT
MAX	WEN

HYDROGRAPHIC SIGNALS:

ANT	POLE
<del>AXE</del> AXE	ROE
BAT	ROY
CUE	TUB
DIF	VEE
DUG (GUD, Sheet 813)	H-7010
ERG	Beq (H-7010)
FAR	
FLY	
GAG	
JOY	

TOPOGRAPHIC SHEET T-5714:

ABE	GAL	OIL
ANN	GAS	PAR
ART	GOB	PET
BAB	GUM	QUO
BAD	HAM	RAT
BAG	HER	REV
BUS	HIE	REX
CAR	HOD	SIC
COD	HOP	SIL
COR	IDA	THY
CUR	IVY	TWO
DAD	JAW	USE
DAY	JAY	VAL
DIP	KEN	VEE
DOC	KID	VIA
DUK	LAX	WAX
EGG	LIZ	WED
EGO	MAG	WIN
END	MOM	<del>WIN</del>
EVA	MOO	YET
FAN	MOP	ZIG
FIX	NIT	
FOT	NOD	
FOX	NUB	
FOX	OAK	

TOPOGRAPHIC SHEET T-5717:

BAL	GUD	POR
BOT	GUN	RAM
CAN	HAY	RED
CAR	LON	SAD
CAT	LOW	SAL
CON	MAR	SIC
CRY	MET	SUN
DAM	NAT	TIT
DIM	NED	WAV
DOG	NEW	WET
DOK	OBO	ZOO
DON	PEG	
GAS	PEL	

APPROVAL SHEET

The boat sheets for this survey were inspected daily and the sounding records were inspected frequently. Both are approved.



L. P. Raynor  
Commander, USC&GS  
Commanding Ship LYDONIA  
Chief of Party

A D D E N D U M

to accompany

HYDROGRAPHIC SHEET H-7002 (Field No. 713)


Hydrographic Signals "Roe" and "Tub" <sup>-H-7003</sup> were transferred from the Boat Sheet to the Smooth Sheet, as no plotting data was available in the sounding records.

Respectfully submitted,

  
Isadore M. Zeskind  
Cartographic Engineer

Norfolk, Va.  
July 17, 1945

Approved & Forwarded

  
Paul C. Whitney  
Supervisor SE District

GEOGRAPHIC NAMES

Survey No. **H7002**

Name on Survey	Source											
	A	B	C	D	E	F	G	H	K			
<u>Maryland</u>			(for title)									1
<u>Choptank River</u>		"	"									2
<u>Tred Avon River</u>									USCB			3
<u>Island Creek</u>												4
<u>Oxford</u>			(location of tide staff)									5
<u>Goldborough Creek</u>									"			6
<u>Deepwater Point</u>												7
<u>Trippe Creek</u>									"			8
<u>Smug Harbor</u>												9
<u>Baileys Neck</u>												10
<u>Peaks Point</u>												11
<u>Boone Creek</u>												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 9/24/46

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H7002**

Records accompanying survey:

Boat sheets ..2.; sounding vols. ..7.; wire drag vols. ....;  
bomb vols. ....; graphic recorder rolls ..11...;  
special reports, etc. ....3. <sup>Check</sup> Bar correction s.....  
.....

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

Number of positions on sheet	1230.
Number of positions checked	..88..
Number of positions revised	..3..
Number of soundings recorded	7500 (approx)
Number of soundings revised (refers to depth only)	..9..
Number of soundings erroneously spaced	..2..
Number of signals erroneously plotted or transferred	..0..
Topographic details	Time 2 hrs.
Junctions	Time 2 hrs.
Verification of soundings from graphic record	Time 3 hrs.

Verification by R. K. De Lawder..... Total time 110 hrs Date 8-28-46.

Review by *R.H. Carstens*..... Time .15.. Date 9/20/46

Launch #100

Sheet # F.713A

Nov. 18,

d(green) day

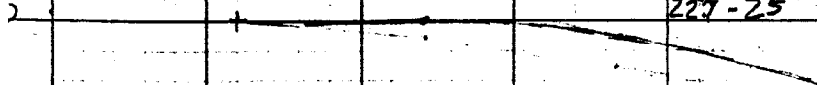
fath. # 76

0 5 10 15 20 25 30 35 40

: am  
+ noon

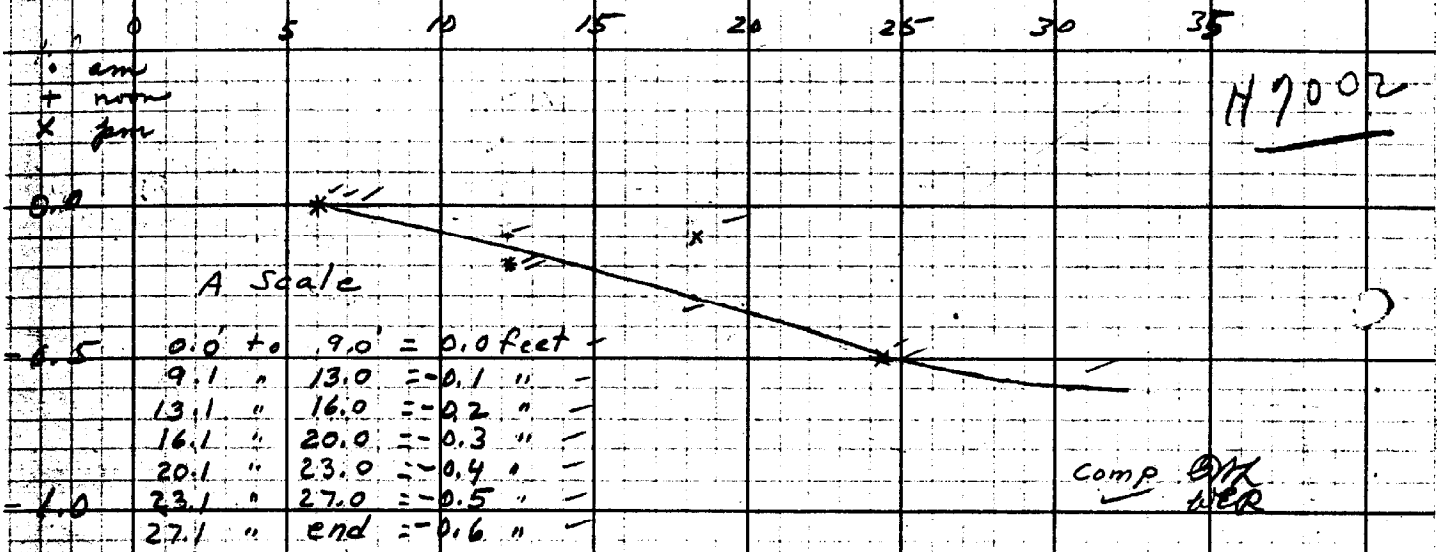
A. Scale  
0 - 18' = 0.0'  
181 - 22.7' = -0.2'  
227 - 25' = -0.4'

Comp WER  
*[Signature]*



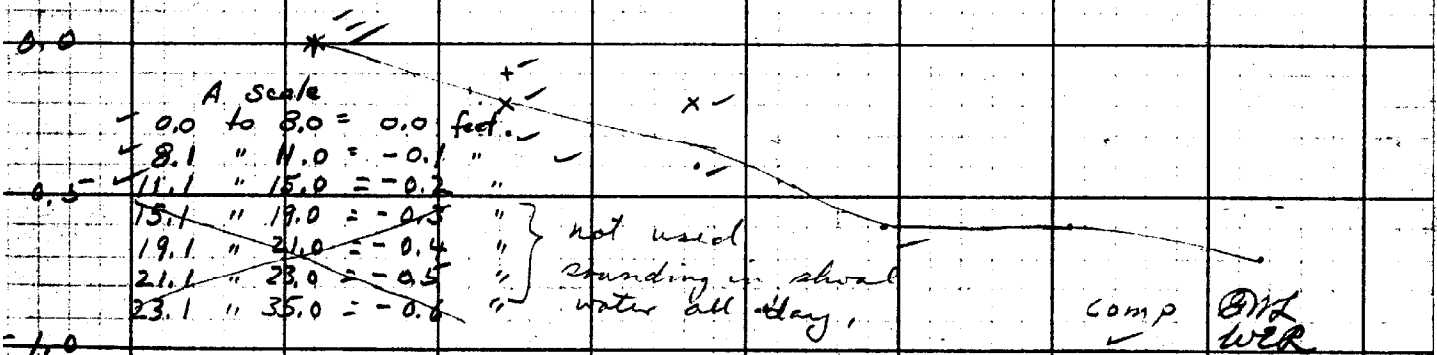
H7002

Launch 100 Sheet F 713A Nov. 1, 1944 a day Fath. #76



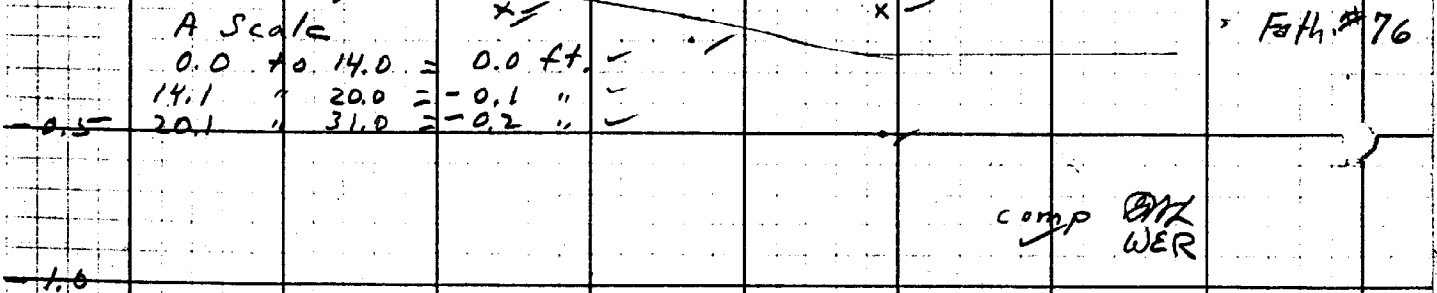
Launch 100 Sheet F 713A Nov. 2, 1944 b day

Fath. #76.



Launch 100 Sheet F 713A Nov. 3, 1944 c day

Fath. #76



See other side

JAR CHECKS		SHEET		113-A	
0	6	12	18	24	30
NOV 17, 1944		LAUNCH 79		d day SHEET 713-A	
• Gain 0 AM + Gain 0 PM • Gain 0 A.M. + Gain 0 P.M.				FATHOMETER #75	
+1.0				0 Gain	0.0 3.0 To 3.7 +0.2 3.8 8.2 0.0 8.3 11.1 -0.2 11.2 12.0 +0.4 15.5 To 8.1 +0.2 8.2 14.5 0.0 14.6 20.4 -0.2 20.5 23.5 -0.4 23.6 24.0
-1.0				Gain > 0	comp. ELM. $\frac{116}{112}$
NOV 18 1944		LAUNCH 79		e day SHEET 713-A	
				FATHOMETER #75	
+1.0				gain = 0	+0.4 2.7 To 4.7 +0.6 4.8 5.4 +0.6 6.3 To 8.0 +0.4 8.1 12.3 +0.2 12.4 16.3
0.0				Gain = > 0	comp. ELM. $\frac{116}{112}$
NOV 19 1944		LAUNCH 79		f day SHEET 713-A	
				FATHOMETER #75	
+1.0				Gain = 0	+0.2 2.8 To 3.3 +0.4 3.4 4.2 +0.4 2.3 To 3.7 +0.6 3.8 7.9 +0.4 8.0 10.2 +0.2 10.3 12.7 0.0 17.7 22.4 -0.2 22.5 23.9
0.0				Gain = > 0	comp. ELM. $\frac{116}{112}$
g day Nov. 29, 1944		Launch 79		Fath. #75	
(see curve for (d) day, Nov. 29, 1944 sheet)				0.0 : 0 to 1.3 } +0.8 : 4.4 : 7.75' +0.2 : 1.3 - 2.4 } +0.6 : 7.2 - 9.5' +0.4 : 2.6 - 3.2 } +0.4 : 9.6 - 11.5' +0.6 : 3.3 - 4.3 } +0.2 : 11.6 - end	
613 Launch 79 Fath. #75				comp. ELM. $\frac{116}{112}$	
Dec. 6, 1944		Launch 79		Sheet 713 h day "808" Fathometer No. 75	
+1.0				+0.6 : 2.0 } 8.0' +0.4 : 8.1 } 8.8' +0.2 : 9.9 } 11.6' 0.0 : 11.7 } 12.4'	+0.6 : 2.0 } 7.0' +0.4 : 7.1 } 9.2' +0.2 : 9.3 } 11.5' 0.0 : 11.6 } -
0				GAIN "0" comp. ELM. $\frac{116}{112}$	
Dec. 14, 1944		Launch #79		Sheet 713 j (blue) day	
Bar check same as g (blue) day Dec, 14, 1944				Fathometer #75	
for shot # 613,				0-Gain +0.2 to 5' +0.4 10'	
				8-Gain +0.2 to 3' +0.4 8' +0.2 10'	
				0.0 to 13' -0.2 17' -0.4 20'	



# BAR CHECK

SHEET 713-A

NOVEMBER 14, 1944

LAUNCH #79 a day

Fathometer #75

• AM  
x PM

+1.0

12

18

24

30

36

0.0

-1.0

+1.0	5.0-6.5 ✓
+0.8	6.6-9.7 ✓
+0.6	9.8-13.5 ✓
+0.4	13.6-18.9 ✓
+0.2	19.0-23.0 ✓
0.0	23.1-26.5 ✓
-0.2	26.5-29.0 ✓

Comp. TCD ✓ E.M.

NOVEMBER 15, 1944

LAUNCH #79 b day

Fathometer #75

+1.0

0.0

-1.0

+1.0	5.0-6.4 ✓
+0.8	6.5-8.4 ✓
+0.6	8.5-11.3 ✓
+0.4	11.4-16.7 ✓
+0.2	16.8-20.7 ✓
0.0	20.8-23.7 ✓
-0.2	23.8-26.9 ✓

Comp. TCD ✓ E.M.

NOVEMBER 16, 1944

LAUNCH #79 c day

Fathometer #75

+1.0


0.0

-1.0

gain 0	0.0	0.0-3.0 ✓
gain 1e	+0.2	3.1-6.0 ✓
	+0.4	6.2-8.6 ✓
gain 2e	+0.2	8.7-11.6 ✓
	0.0	11.7-17.0 ✓
gain 3e	-0.2	17.1-22.3 ✓
	-0.4	22.4-25.8 ✓
gain 4e	-0.6	25.9-29.6 ✓
	-0.8	29.7-32.6 ✓
gain 5e	-1.0	32.7-36.0 ✓
		36.1-40.0 ✓

Comp. R.C.D. ✓ E.M.

(OVER)





DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 7002

FIELD NO. 713

Maryland, Choptank River, Tred Avon River and Island Creek  
Surveyed in November - December, 1944      Scale 1:10,000  
Project No. CS-250

Soundings:

Sounding pole  
808 Fathometer

Control:

Sextant fixes on shore signals  
Bearings and distances from  
signals

Chief of Party - L. P. Raynor  
Surveyed by - H. J. Healy and G. W. Lovesee  
Protracted by - B. M. Jones  
Soundings plotted by - B. M. Jones  
Verified and inked by - R. K. DeLawder  
Reviewed by - R. H. Carstens, September 20, 1946  
Inspected by - H. W. Murray

1. Shoreline and Signals

The shoreline is from topographic quadrangle T-8249 and T-8250 of 1942. The signals originate with air-photographic surveys T-5712, T-5714 and T-5717 of 1937-40. The fixes for supplementary hydrographic signals are recorded in the sounding volumes of the present survey and adjoining contemporary surveys.

2. Sounding Line Crossings

Depths at crossings are in satisfactory agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves were satisfactorily drawn.

The bottom is generally smooth. Shoals extend off some points of land as much as 400 m.

4. Junctions with Contemporary Surveys

Satisfactory junctions were effected with H-7003 (1944) on the north and H-6949 (1944) on the west at lat.  $38^{\circ} 42'$ . The junctions with H-7010 (1942-44) on the southwest and H-7001 (1944-45) on the west at lat.  $38^{\circ} 42.4'$  will be considered when those surveys are verified.

5. Comparison with Prior Surveys

- A. H-202 (1848) 1:20,000  
H-1049 (1870) 1:10,000

The sparse development on these early surveys is in fairly good agreement with present depths. The present survey supersedes these prior surveys within the common area.

- B. H-2922 (1902) 1:20,000  
H-2630 (1902) 1:20,000

These surveys cover the entire area of the present survey. Agreement in depth is generally within 2 ft.

The 5-ft. (uncharted) from H-2622 falling in present depths of 9-11 ft. in lat.  $38^{\circ} 42.52'$ , long.  $76^{\circ} 08.61'$  was not specifically investigated and is not considered disproved. The sounding has been carried forward. The islets (charted) in lat.  $38^{\circ} 42.60'$ , long.  $76^{\circ} 08.45'$  have washed away. Depths of 1 ft. are now shown in this area.

The present survey is adequate to supersede these prior surveys except for the 5 ft. sounding mentioned above and supplementary bottom characteristics.

6. Comparison with Chart 1225 (Latest print of March 9, 1946)

A. Hydrography

Charted hydrography within the limits of the present survey originates principally with the previously discussed surveys and advance chartings from the present survey prior to verification. The chart should be brought into agreement with the present survey.

B. Aids to Navigation

The survey positions of aids to navigation are in satisfactory agreement with the charted positions except that (1) no position was determined for buoy S-3 charted in lat.  $38^{\circ} 42.6'$ , long.  $76^{\circ} 08.75'$  and (2) the survey position of buoy S-5 charted in lat.  $38^{\circ} 43.3'$ , long.  $76^{\circ} 08.65'$  is 230 m. northeast of the charted position. The present survey position of this buoy more satisfactorily marks the feature intended.

7. Condition of Survey

The field plotting was accurately accomplished.

The Descriptive Report and sounding records are complete and comprehensive.


8. Compliance with the Project Instructions

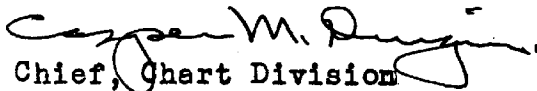
The survey satisfactorily complies with the Project Instructions.

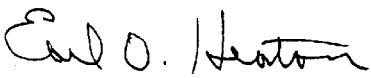
9. Additional Field Work Recommended

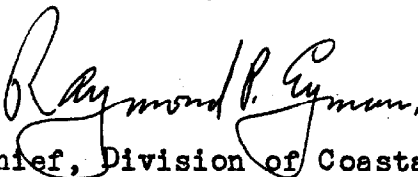
No additional work is required on this basic survey.

Examined and approved:

  
Chief, Nautical Chart Branch

  
Chief, Chart Division

  
Chief, Section of Hydrography

  
Chief, Division of Coastal Surveys

NUM

80

Form 719  
DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
Rev. June 1937

**TIDE NOTE FOR HYDROGRAPHIC SHEET**

September 5, 1945

**Division of Hydrography and Topography:**

Division of Charts: Attention: E. W. MURRAY

Plane of reference approved in  
7 volumes of sounding records for

**HYDROGRAPHIC SHEET 7002**

Locality Tred Avon and Choptank Rivers, Maryland.

Chief of Party: L. P. Raynor in 1944  
Plane of reference is mean low water, reading  
6.5ft. on tide staff at Oxford  
4.3ft. below B. M. 1

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

Condition of records satisfactory except as noted below:

*E. W. Murray*

Chief, Division of Tides and Currents.

