7001

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. 613 *Office No.* 7001

LOCALITY

State Maryland

General locality Choptank River

Locality Broad Creek and Vicinity

1944-45

CHIEF OF PARTY

L. P. Raynor

LIBRARY & ARCHIVES

DATE Dec. 7, 1945

8-1870-1 (1)

7001

Form 537
Ed. Dec. 1930

REG. NO. H7001

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.

Field No. 613

REGISTER NO. H-7001

State Maryland

General locality Choptank River Oxford to St. Michaels

Locality Lower Trad Avon River, Plaindealing Creek, Benoni Point, ~~Irish Creek, Bridge Creek, Edge Creek, Elborbs Cove, Solitude Creek, San Domingo Creek, Broad Creek,~~ Broad Creek and vicinity

Scale 1:10,000 Date of survey Winter Season Nov. 1944 to April 1945, 1944 & 1945

Vessel Ship LYDONIA - LAUNCHES 79 & 100.

Chief of Party L. P. Raynor

Surveyed by Lt.Comd'r. H.J. Healy, Lt.Comd'r. G.W.Lovesee

Protracted by M.T. Miller

Soundings penciled by A.G. Atwill

Soundings in ~~fathoms~~ feet

Plane of reference Mean Low Water.

Subdivision of wire dragged areas by

Inked by H.A. Curtis

Verified by H.A. Curtis

Instructions dated April 17, 1940 to Sept. 12, 1944. ~~19~~

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

U. S. GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT TO ACCOMPANY
Hydrographic Sheet H- 7001
Field Sheet No. 613, 1944.
Benoni Point to St. Michaels, Maryland.
L.P. Raynor, Chief of Party,
Commanding Officer Ship LYDONIA.
Surveyed by H.J. Healy, G.W. Lovesee,

Scale 1:10,000.

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. Supplemental Instructions for the present season are dated Sept. 12, 1944.

B. SURVEY LIMITS AND DATES: This is a complete new survey of the Tred Avon River from Longitude 76° 10' in the vicinity of Peoks Point to its mouth in the vicinity of Latitude 38° 40'. The survey then extends to the west and north to include Plaindealing Creek, Benoni Point, Irish Creek, Bridge Creek, Edge Creek, Elberts Cove, Solitude Creek, San Domingo Creek, and all tributaries of these creeks to their headwaters. Also the part of Broad Creek east of longitude 76° 15'. It also includes part of the Choptank River west of Benoni Point to the vicinity of Irish and Broad Creeks. H-7047 (1944-45)

This sheet joins Field Sheet No. 313 to the west which is in the process of being surveyed by the Motor Vessel COWIE. H-7043 (1943-45) It joins Field Sheet No. 513 to the south which is also being surveyed by the Motor Vessel COWIE. It joins Field Sheet No. 713 H-7002 (1944) to the east which has been completed by the Ship LYDONIA earlier this season. Also joins H-6949 (1944) on the east in Tred Avon R and H-7010 (1942-44) on the southeast.

C. VESSELS AND EQUIPMENT: The survey of this sheet was made with Launches No. 79 and 100 which operated from the Ship LYDONIA at anchor off Broad Creek in the Choptank River.

Model 808 Fathometers No. 75 and 76 were used in these two launches. These fathometers were interchanged during the course of the survey. The fathometer used each day is listed in the sounding volumes at the start of each days work.

In shoal areas at the end of the sounding lines occasional pole soundings are recorded. In areas where soft bottom was found and the pole soundings did not check well with the fathometer soundings then pole soundings were taken and these soundings are marked as pole soundings in the sounding volumes. In depths greater than 4 to 5 feet the fathometer soundings checked very well regardless of the type of bottom and pole soundings were not needed. Profile from fgm often unreadable in shoal depths. Pole sdgs usually shoaler

Fish No. 809113 was used on Launch No. 79. Fish No. 809100 was used on Launch No. 100.

D. TIDE AND CURRENT STATIONS:

The Tide Gage at Oxford, Maryland was used for all soundings in the Tred Avon River, the Plaindealing Creek, Irish Creek, and in the Choptank River from Benoni Point west and north toward Broad Creek to latitude 38° 42.00'.

The San Domingo Creek Tide Gage was used for all soundings in San Domingo Creek.

The Deep Neck Point Tide Gage was used for all of the remainder of the Sheet.

Soundings on the boat sheet were reduced from the actual tides as obtained from the tide gages as listed above.

No current stations were established on this survey.

E. SMOOTH SHEET:

The smooth sheet for this survey will be plotted by the Norfolk Processing Office.

F. CONTROL STATIONS:

The following triangulation stations were used:

TAR (MSFC) 1910	MUTTON (MSFC) 1910
ELMORE (MSFC) 1909 Cam	HARPER (MSFC) 1909 Ora
GRAM (MSFC) 1909 Kity	ST MICHAELS TANK (MSFC) 1909
BENONI 3 1934	IRISH CREEK TANK 1941 Tall
Bon (HOLLY) 1909	GRAVE, 1909

The topographic signals were located by air photographic methods, see ozilids No. T-5709, 5712, and 5713. Also the upper part of San Domingo Creek is found on ozilid T-5708.

See the list of signals attached to this report and in the front of sounding volume No. 1 for list of various types of signals used on this sheet.

Signals in green on the boat sheet are pricked from points identified on the ozilids. The points pricked are described on the boat sheet beside the name of the signal.

Hydrographic Signals shown in blue on the boat sheet are located by three point sextant fixes which are recorded in the sounding volumes and indexed on page 2 of volume 1.

G. SHORELINE AND TOPOGRAPHY:

The shoreline and topography taken from the ozilids No. T-5708, 5709, 5712, & 5713 are satisfactory and no corrections or additions are necessary. Shoaling revised to agree with T-8249 & T-8268 of 1942. Revisions minor.

H. SOUNDINGS:

See subheading "C" Vessels and equipment.

No unusual or special methods, equipment, or corrections were used.

I. CONTROL OF HYDROGRAPHY:

Positions of soundings are located by three point sextant fixes, taken on shore signals, and plotted with the three arm celluloid protractor. A very few positions are marked S.B.S. in the record books. These positions are all in the headwaters of the smaller creeks where signals were not visible. The boat sheet could be used to transfer these positions to the smooth sheet. In all cases the sounding volumes clearly show these positions and the method of their determination.

J. ADEQUACY OF SURVEY:

This sheet is a complete resurvey of the area. It should supersede all prior surveys for charting purposes. except bottom characteristics

Junctions with adjoining sheets are satisfactory, no holidays exist, and depth curves can be adequately drawn.

K. CROSSLINES:

An adequate number of crosslines were run. Soundings were plotted on the boat sheet to the nearest tenth of a foot. Reducers were taken from the various (three) tide gages as needed at the end of each days work. Crosslines checked satisfactorily with the main scheme of sounding lines.

See the report on statistics which is attached to this report for the number of miles and percentage of crosslines run.

L. COMPARISON WITH PRIOR SURVEYS:

See comparison with chart below.

M. COMPARISON WITH CHART:

The soundings on the boat sheet compare well with those on Chart No. 1225 except at the entrance to Barrett Cove. This is the Cove between San Domingo and Solitude Creeks in the vicinity of St. Michaels, Maryland. The chart shows a depth of 6½ feet at the entrance to this cove. The entrance to this cove is now blocked by a sand bar which extends all the way across the entrance and has a depth of only one foot at mean low water at the time of this survey. 1 ft shown on latest print.

N. DANGERS AND SHOALS:

The only dangers and shoals found on this survey are the usual shoal areas off points that are always found in this type of river and creeks. These shoals and sandbars are usually marked by stakes driven in the bottom and are kept in position by local fishermen.

The water area on this sheet is quite safe for small craft as the bottom is sandy or muddy.

No dangers were found to be reported.

O. COAST PILOT INFORMATION:

Good anchorage for small motor launches and pleasure craft is found in or near mid-channel in any of the larger creeks. A good anchorage for craft drawing up to 10 and 12 feet is found in the Tred Avon River north of Oxford and east of Bellevue. In the main channels of the larger creeks the bottom is quite firm. In the side streams and headwater of the creeks the bottom varies from firm sand to soft mud.

All buoys and beacons have been located by three point fixes and are shown on the boat sheet and described in the sounding volumes. They have been indexed in the front of sounding volume No. 1.

Fresh water can be obtained at various docks in Oxford.

There are three shipyards at Oxford and the largest can handle wooden craft up to about 125 feet long and about 8 foot draft. Machine shops are available at all three boatyards. There are no facilities for repairing metal hulls. About 8 feet of water can be found in Town Creek to the largest boatyard. About 5 feet of water is found in Town Creek to the two smaller boatyards.

The only docking facilities now found at Oxford is at the ferry dock Landing in the Tred Avon River north of Oxford. 15 feet of water can be found alongside the outer face of this dock and can be carried all the way in from the Choptank River at mean low water. Gasoline can be obtained at this dock and also at the boatyards.

Oxford has Railroad and Taxi service but no bus service.

Storm warnings are no longer displayed at Oxford.

There is a tall silver watertank at Oxford which stands well above the trees and can be seen for several miles.

Telephone and telegraph service is available at Oxford and limited supplies can be obtained.

There are several fishing docks at Bellevue and about 6 feet of water can be found alongside the largest of these docks, at mean low water.

About 2½ feet of water can be found all the way up San Domingo Creek to the town of St. Michaels. However the one dock is very small and can accomodate only small craft and there is very little swinging room for turning around.

Coast Pilot notes as found in Section C, Atlantic Coast, United States Coast Pilot are adequate for the rest of the creeks surveyed by this sheet.

P. AIDS TO NAVIGATION:

There are two ~~Beacons~~ lights within the limits of this sheet.

The Broad Creek ~~Black Beacon~~ Light at the entrance to Broad Creek was located on Sheet Field No. 513 by the Motor Vessel COWIE. This ~~Beacon~~ Light is No. 2511 in the 1944 Light List. It is signal Broad. The location of this signal shown on this boat sheet was transferred from sheet field No. 513 and was located by sextant fix by the M.V. COWIE.

The Oxford ~~Red Lighted Beacon~~ Light off the west side of Oxford Maryland is the same as signal Ford as shown on H-6949 of the 1943 or 1944 survey by the M.V. COWIE. This ~~Beacon~~ Light was again located on this boat sheet and is shown by Hydrographic location on Page 2 of Volume 1 of this boat sheet sounding volume. This is Light No. 2514 in the 1944 Light List. As scaled from the ~~boat~~ smooth sheet the location is as follows: Latitude 38° 41' plus 1028 meters. Longitude 76° 10' plus 959 meters.

There are two buoys within the limits of this sheet.

Irish Creek Buoy No. 1 is located by a fix, see Volume 6, page 29 "f" day Launch 79. Latitude 38° 40' plus 1614 meters. Longitude 76° 13' plus 955 meters.

Irish Creek Buoy No. 2 is located by a fix, see Volume 6, page 29 "f" day Launch 79. Latitude 38° 41' plus 429 meters. Longitude 76° 13' plus 737 meters. The depth of water at these buoys can be obtained from the sounding volumes when the final tide reducers are entered and soundings reduced.

There are no range lights or markers within the limits of this sheet.

The only unofficial aids to navigation in the creeks covered by this survey are stakes marking the outer ends of sand bars. These stakes are maintained by local fishermen and are changed and replaced by them as needed. These stakes were not located as they change in position as they are replaced when needed. However a number of detached positions will be found where soundings were taken to mark the outer limits of the more inportant sand bars which are close to the mid-channel courses in the creeks.

There are no overhead bridges, overhead or submarine telephone or telegraph lines, within the limits of this survey. there is one overhead telephone line in 38°-45.1' λ 76°-12.1'

There is one ferry route which connects Oxford and Bellevue, Maryland. The Oxford terminus is about midway of the dock at topographic signal NIG at the north side of the town of Oxford. The Bellevue terminus is at the outer end of the long dock about 40 meters south of signal LUM east of Bellevue. The ferry is privately owned. It is a three car ferry. The charge for cars and small trucks is 50¢ one way or 80¢ per round trip. Ferry service is maintained during daylight hours and the early morning and evening.

Q. LANDMARKS FOR CHARTS: CH L. 47(1946)

This report has been submitted by the field parties of the Air Photographic Division. No additional landmarks for charts are recommended.

R. GEOGRAPHIC NAMES:

This report has been made by the air photographic field parties. No new geographic names are recommended.

S. thru Z. Does not apply to this descriptive report.

Respectfully submitted,

George W. Lovesee
George W. Lovesee
Lt. Comd'r., C. & G. Survey.

Henry S. Healy
Henry S. Healy
Lt. Comd'r., C. & G. Survey.

Note: This report has been written before the completion of the survey because of the contemplated transfer of the two Hydrographic Engineers. If additional notes are needed by the Hydrographer finishing the survey these notes can be added at that time.

Approved and Forwarded:

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

LIST OF HYDROGRAPHIC SIGNALS, SHEET NO. F-613

TRIANGULATION:

BEN (Benoni 3, 1934)
CAM (Elmore, Md. Shellfish Survey, 1909)
KITY (Gram, " " " , 1909)
MUT (Mutton, " " " , 1910)
ORA (Harper, " " " , 1909)
TALL (Irish Creek Tank, 1941)
VUE (Vue, Md. Shellfish Survey, 1910)

* BON (HOLLY, 1909)
GRAVE, 1909
TAR, 1910
ST. MICHAELS W.T., 1934

LOCATED BY HYDROGRAPHIC PARTY:

AKY	BUSY	DANY	ERA	JESY	MOM	PID	SAND
AMP	BUT	DAY	EVE	KOW	MOPY	PIG	SIN
ARE	CAR	DIN	FIN	KUC	MUG	PIT	SKE
AXE	CAT	DIP	FRO	LAST	NAG	RAE	WAPY
AYE	CODY	DOG	FUL	LEG	NAM	RED	WIG
BAC	COW	DUCK	GAB	LIN	NELY	ROD	WIND
BLA	CUT	EAT	GERY	MAD	OEG	RUM	YEN
~~BON~~	CRY	EID	JAL	MARY	OLA	SAD	

BROAD (from F-513)

FROM T-5712:

Air photo signals:

ACE	CUP	FAR	HEX	KIS	NOD	RAM	UNA
AIM	CUR	FAT	HUG	LAX	NOR	RAT	USE
ALP	DAB	FED	HUM	LAY	NUT	REA	VET
AMY	DAR	FEW	ICE	LIP	OAK	RIG	VIA
ANN	DAW	FIX	IDA	LIZ	OFF	RIP	VIM
AZO	DIE	FLY	ION	LOG	OIL	RON	WAR
BAG	DIX	FOG	IRK	LON	OLD	ROW	WHO
BAH	DOC	FOX	IVY	LOW	OUT	SAG	WIN
BED	DOK	GAD	JAW	LUM	OWL	SAL	WIT
BIG	DOT	GAM	JIB	LUX	PA	SAM	WOO
BOB	EAR	GAS	JOB	MA	PAL	SKI	X-RAY
BOX	EEL	GEM	JOE	MAG	PEG	SLY	YAM
BUR	EFF	GEO	JOY	MAL	PET	SOP	YES
CAB	EGG	GIG	JUG	MAX	PEW	STY	YET
CAL	ELA	GIN	KATE	MOB	PIE	TAB	ZAG
CHIN	EMA	HAB	KED	NAT	PIN	TAN	ZED
COD	END	HAG	KEY	NEL	POT	TAX	ZIG
COO	ERG	HAP	KEN	NIG	PRO	TRY	ZIP
COP	EVA	HER	KID	NIX	QUO	TUB	ZOO

FROM T-5709:

Air photo signals:

FAN GAN HET JES IRY

Signals spotted from topographic features(T-5709):

ADA CAL DAN ELM ERL HAL IRA

FROM T-5711:

Air photo signals:

AVE	EBB	HEPY	LOTY	PETY	TABY	WAG
BAA	EFT	HOP	MAY	RIO	TAP	WAP
BET	FANY	HOT	MOO	ROSA	THY	~~WAS~~
BIB	FIG	IKE	NAN	SAGY	TOP	YEA
BONY	FIT	JAN	NIL	SALY	TOT	YOW
BOW	FLO	JAR	NIP	SAT	TWO	YOWY
BUS	FOGY	JIP	ODD	~~SEX~~	UKE	ZAM
CAMY	GERT	KIM	OPA	SOL	VAL	~~ZIZ~~
CON	HABY	KIT	OSA	SOX	VI	ZOE
DIM	HEP	LOT	PAT	SUE	VIX	

Signals spotted from topographic features(T-5711):

HOT NAPY SEX

HEE BURY CONY CYN DIPY FUR SIC

Signals spotted from topographic features(T-5712):

POLO PONY DICK

ACT BIB FRY HUB MIKE PIX SUB (THAT THEM THIS)
ADD BUM GAG HUT MOP QUIZ TOM
ADU COX GAL ISO MUM RAG TOX
ANT DAY GED JIM NAT RAN TOY
ART DEB GUS KAY NOW REV UNIT
ASK DUD HAT LEO OHM SIG VEX
BAD EGO HIS LUG PAR SIP WAX (WHAT WHEN)
BAT ELL HOW MID PEP SIS YAK
YEL
ZANY

APPROVAL SHEET

Boat Sheets were inspected daily and sounding records frequently and both are approved.

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

STATISTICS, SHEET F-613 (H-7001):

H7001

DATE	DAY LETTER	LAUNCH	VOLUME	NO. SNDGS.	NO. POS.	STAT. MI.
11/21/44	a	100	1	130	81	7.8
11/22/44	b	100	1	221	125	12.8
11/23/44	c	100	1	166	57	3.8
11/29/44	d	100	3	115	117	12.5
11/29/44	a	79	2	-	75	11.8
12/ 3/44	b	79	4	-	21	2.6
12/ 3/44	e	100	3	22	34	4.0
12/ 4/44	f	100	3	152	108	7.5
12/ 4/44	c	79	4	-	146	21.0
12/ 5/44	d	79	4,6	1	134	24.4
12/ 5/44	g	100	5	286	125	11.5
12/ 6/44	h	100	5	148	123	14.3
12/ 6/44	e	79	6	-	34	5.2
12/ 7/44	f	79	6	2	119	22.9
12/ 7/44	j	100	7	383	210	25.0
12/14/44	k	100	7	191	81	6.8
12/14/44	g	79	6,8	-	74	9.4
12/15/44	h	79	8	1	113	23.7
12/15/44	l	100	10	320	115	11.3
12/16/44	m	100	10	274	131	16.4
12/17/44	n	100	11	59	82	11.2
12/19/44	p	100	11	2	88	9.0
1 / 5/45	j	79	8	-	98	16.0
1 / 6/45	k	79	9	1	100	19.5
1/ 6/45	q	100	11	238	~~75~~ 89	~~11.8~~ 10.4
1 / 9/45	l	79	-9	-	51	8.6
			TOTALS:	2,712	2,511	329.4

TOTAL AREA OF HYDROGRAPHY: 13.5 square statute miles

CROSSLINES: 22.5 statute miles, or 6.7% of total mileage

TIDAL NOTE:

SHEET F-613 (REGISTER NO. H-7001)

Plane of reference is Mean Low Water.

See Part (D), "TIDE AND CURRENT STATIONS", P. 2 of Descriptive Report for reference as to area governed by each of the three tide gages listed below:

TIDE GAGE	LATITUDE	LONGITUDE	MLW ON STAFF	TIME DIFFERENCE ON BALTIMORE
OXFORD	38° 41.61'	76° 10.47'	5.5 ft.	-2h 55m
SAN DOMINGO CREEK	38° 46.48'	76° 13.96'	2.1 ft.	-3h 00 m
DEEP NECK POINT	38° 43.90'	76° 14.05'	2.2 ft.	-3h 15m

ADDENDUM TO DESCRIPTIVE REPORT
Hydrographic Sheet H7001 (F-613)
for portion of sheet surveyed by
J.Bowie, Jr. and C.R.Reed

C. VESSELS AND EQUIPMENT: Launch 100, Model 808 Fathometer No. 55, and Fish No. 80997 were used on this additional work.

D. TIDE AND CURRENT STATIONS: Deep Neck Point tide gage was used for the reduction of soundings on the additional work.

I. CONTROL OF HYDROGRAPHY:

Some of the positions on this additional work were determined by bearings with an azimuth circle on a boat compass mounted atop the launch and distances by range finder.

P. AIDS TO NAVIGATION:

A telephone line with 10 feet vertical clearance at high water crosses an arm of Solitude Creek in an east and west direction at Latitude 38° 45.16', Longitude 76° 12.1'.

ADDITIONAL STATISTICS, SHEET F-613 (H-7001)

DATE	DAY LETTER	LAUNCH	VOLUME	NO. SNDGS.	NO. POS.	STAT. MI.
3/23/45	r	100	12	329	116	11.5
3/24/45	s	100	12	82	149	16.1
3/25/45	t	100	12 & 13	129	130	12.9
4/11/45	u	100	14	55	31	3.5
			TOTALS:	595	426	44.0
			PREVIOUS TOTALS :	2712	2511	329.4
			GRAND TOTALS:	3307	2937	353.4

ADDITIONAL AREA OF HYDROGRAPHY: 1.95 square statute miles

TOTAL AREA OF HYDROGRAPHY: 15.4 square statute miles.

"J.Bowie,Jr., and C.R.Reed" should be added to Form 537.

Respectfully submitted:

C.R.Reed

C.R.Reed, Lt.Comdr.,USC&GS

Forwarded:

L.P.Raynor

L.P.Raynor,Comdr.,USC&GS,
Comdg. Ship LYDONIA

A D D E N D U M

to accompany

HYDROGRAPHIC SHEET NO. H-7001 (Field No. 613)

This sheet was processed in the Hydrographic Section of the Southeastern District, Norfolk, Virginia.

Respectfully submitted,

Isadore M. Zeskind
Cartographic Engineer

Norfolk, Va.
December 3, 1945

Approved & Forwarded

Paul C. Whitney
Supervisor SE District

GEOGRAPHIC NAMES

Survey No. H-7001

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Maryland									USGB	1
Choptank River										2
Tred Avon River									"	3
Broad Creek										4
Edge Creek										5
San Domingo Creek		(tide staff location)							"	6
Barrett Cove									"	7
Solitude Creek									"	8
Elberts Cove										9
Cedar Point										10
Deep Neck Point		(tide staff location)								11
Bridge Creek										12
Royston Island										13
Irish Creek										14
Benoni Point									"	15
Plaindealing Creek										16
Bellevue										17
Oxford		(tide staff location)								18
Pecks Point										19
Bachelor Point									"	20
Boone Creek										21
Fox Hole Creek									"	22
										23
										24
										25
										26
										27

M 234

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H7001

Records accompanying survey:

Boat sheets 7.....; sounding vols. 14...; wire drag vols. .....;

bomb vols. .....; graphic recorder rolls ...30.;

special reports, etc. .....

.....

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

Number of positions on sheet		.2937..
Number of positions checked		.323...
Number of positions revised		..19...
Number of soundings revised (refers to depth only)		..216..
Number of soundings erroneously spaced		..25...
Number of signals erroneously plotted or transferred		...9..
Topographic details	Time	..16...
Junctions	Time	..24..
Verification of soundings from graphic record	Time	..15...

Verification by...Henry A. Curtis.....Total time .350.. Date January 16th 1947

Reviewed by...R.H. Carstens..... Time .30.. Date Feb 12, 1947

M-2232-1

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY — REGISTRY NO. H-7001

FIELD NO. 613

Maryland, Choptank River, Broad Creek and Vicinity
Surveyed in Nov. 1944 - April 1945 Scale 1:10,000
Project No. CS-250

Soundings:

Sounding pole
808 Fathometer

Control:

Sextant fixes on shore signals
Bearings and range-finder distances

Chief of Party - L. P. Raynor
Surveyed by - H. J. Healy, G. S. Lovesee and C. R. Reed
Protracted by - M. T. Miller
Soundings plotted by - A. C. Atwill
Verified and inked by - H. A. Curtis
Reviewed by - R. H. Carstens, February 6, 1947
Inspected by - H. W. Murray

1. Shoreline and Signals

The shoreline is from quadrangles T-8249 and T-8258 of 1942.

Topographic signals originate with air photographic surveys T-5709 (1937-40), T-5711 (1937-39) and T-5712 (1937-39). Signals in green were spotted on ozalid copies of the topographic surveys. Supplementary hydrographic signals were located by sextant fixes and recorded in the sounding volumes.

2. Sounding Line Crossings

Depths at crossings are in excellent agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves were adequately delineated.

The bottom is smooth and slopes gradually from inshore flats to deeper water in the natural channels.

4. Junctions with Contemporary Surveys

Adequate junctions were effected on the east in Tred Avon River with H-7002 (1944) and H-6949 (1944), and on the south in Choptank River with H-7032 (1943-45).

The junctions with H-7047 (1944-45) on the west and H-7010 (1942-44) on the southeast will be considered when those surveys are reviewed.

5. Comparison with Prior Surveys

H-201 (1848) 1:20,000
H-1050b (1870) 1:10,000
H-2622 (1902) 1:20,000
H-2630 (1902) 1:20,000

A comparison between the present survey and these prior surveys reveals that partically no change in the bottom has occurred. There are, however, minor differences of 1 to 2 ft. in depth in several places.

The 11 ft. (uncharted) in lat. 38° 40.95', long. 76° 11.25' on H-2622 falls in present depths of 15-16 ft. The bottom is smooth and present depths reveal no irregularities such as the 11 ft. sounding. The 11 is probably an erroneous sounding and should be disregarded.

With the addition of supplementary bottom characteristics, the present survey is adequate to supersede these prior surveys within the common area.

6. Comparison with Chart 1225 (Latest print date 11/25/46)

A. Hydrography

The hydrography originates principally with the surveys discussed in the preceding paragraph and with critical depths from the present survey before verification and review.

The low-water spot charted in lat. 38° 40.55', long. 76° 12.6' from the present survey has been revised during verification and should be superseded by the present delineation.

It is noted that the islet, charted in lat. 38° 44.95', long. 76° 14.6' from T-2513 (1900) is not shown on the present survey or on the latest topographic survey T-8258 (1942). The islet is assumed to be nonexistent and should be disregarded in charting.

No source could be found for the small pier charted in lat. 38° 42.60', long. 76° 10.27'. The pier is not shown on T-5712 (1937-39) or T-8249 (1942); however, it does appear on the buff drawing of the chart at the time these surveys were applied. The pier is considered to be nonexistent and should be disregarded.

B. Aids to Navigation

The present survey positions of aids to navigation are in substantial agreement with the charted positions and adequately mark the features intended.

7. Condition of Survey

a. The sounding records and Descriptive Report are complete and comprehensive.

The sign of the tide reducers applied to soundings on parts of two days' work was recorded in error. The necessary revisions were made in the Washington Office.

b. The smooth plotting was accurately accomplished.

8. Compliance with the Project Instructions

The present survey adequately complies with the Project Instructions except that very few bottom characteristics were obtained.

9. Additional Field Work Recommended

This is an excellent basic survey except as noted in paragraph 8. No additional work is recommended.

Examined and approved:

I. E. Rittenburg
Chief, Nautical Chart Branch

Casper M. Durgin
Chief, Division of Charts

K. G. Crosby
Chief, Section of Hydrography

C. K. Green
Chief, Division of Coastal Surveys

Murray

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

28 March 1946

~~Division of Hydrography and Topography~~:

Division of Charts: H. W. MURRAY

Plane of reference approved in
14 volumes of sounding records for

HYDROGRAPHIC SHEET 7001

Locality Chesapeake Bay - Broad Creek, Tred Avon River and vicinity

Chief of Party: L. P. Raynor in 1944 and 1945
Plane of reference is mean low water, reading
6.5 ft. on tide staff at Oxford
4.3 ft. below B. M. 1
2.1 ft. on tide staff at San Domingo Creek
6.3 ft. below B. M. 1
2.2 ft. on tide staff at Deep Neck Point
7.8 ft. 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:

C. K. Green

Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE 164237

NAUTICAL CHARTS BRANCH

SURVEY NO. H7001

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
7-11-46	1225	J. M. G.	Before ~~After~~ Verification and Review Preliminary corr'n.
2/3/47	Reprint 550	[signature]	After Ver. before final Review
			Before After Verification and Review
8/22/47	Recmtr. 550	H.J. Reyman	~~Before~~ After Verification and Review Inspected and no changes found necessary.
8/17/48	551	H.E. MacEwen	~~Before~~ After Verification and Review
2/27/67	77	O. Svendsen	~~Before~~ After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before 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.