

7778

Diag. Cht. No. 78-2

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. CO-1249 Office No. H-7778

LOCALITY

State MARYLAND

General locality TANGIER SOUND

Locality BIG ANNEMESSEX RIVER AND APPROACHES

1949

CHIEF OF PARTY

E. B. Latham

LIBRARY & ARCHIVES

DATE AUGUST 18, 1950.

821212

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. H-7778

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-7778

Field No. CO-1249

State MARYLAND

General locality ~~BIG ANNEMESSEX RIVER~~ TANGIER SOUND

Locality BIG ANNEMESSEX RIVER AND APPROACHES
~~FLATGAP PT. TO UPPER REACHES~~

Scale 1:10,000 Date of survey 7 JUNE to 30 SEPT. 1949

Instructions dated 28 FEB. & 29 MAR. 1949

Vessel COWIE

Chief of party ECTOR B. LATHAM

Surveyed by " " "

Soundings taken by ~~XXXXXX~~ fathometer, graphic recorder, hand lead, ~~XXXX~~ POLE

Fathograms scaled by COWIE PERSONNEL

Fathograms checked by " "

Protracted by ANDREW ANNINOS

Soundings penciled by " "

Soundings in ~~XXXX~~ feet at MLW ~~MLW~~
and are true depths

REMARKS:

.....
.....
.....
.....
.....

SHEET - 1249

A - AUTHORITY:

Project CS-287, Amended (superseding) Instructions dated, 28 February 1949, amended, 29 March 1949.

B - LIMITS AND DATES:

Big Annemessex River, Md., including tributaries, with Daugherty Creek North of Latitude $38^{\circ} - 02'$, and Mine Creek, which is a tributary of the Manokin River, included on account of sheet size limitation, Tangier Sound, between Latitude $38 - 01.5$ and $38 - 05.0$, East of Longitude $75 - 54.1$.

Junctions are made to Sheet CO-1149. ^{H-7722(1949)}

Some fixes taken in the upper reaches of Goose Creek depend on signals appearing on ^{H-7722} this sheet and not on sheet ^{H-7774} 1349. It will be necessary to use boat sheet positions, or to transfer some fixes plotted on this sheet to sheet CO-1349. Work on Sheet CO-1349, part of "a" day ARK is plotted on Boat Sheet/1249-A (pres. survey) ^{H-7774}

For Junctions see Review, par. 4

^{H-7774(1949)}

Work commenced on 7 June and ended 28 July 1949. *Add'l work 29-30 Sept*

C - VESSEL AND EQUIPMENT:

Launch Number 102 and Hydrographic Ark. The COWIE was not used on this sheet.

For characteristics of boats, please see notes for Sheet CO-1149. ^{H-7722(1949)}

D - TIDE AND CURRENT STATIONS:

Auto portable gage was maintained at Crisfield, Md. through the period. ^{out} An additional gage was established at Long Point Beacon - entrance to Colbourn Creek.

Note: Ford's wharf, specified in INSTRUCTIONS as location of tide gage was destroyed by fire a considerable number of years ago.

No current station was specified within the limits of this sheet, and none was observed.

E - SMOOTH SHEET:

By Processing Office-

Suggestion is made that hydrographic signals be located. Together with shore line delineated on graphic control sheet before transferring air photograph shore line, and that the air photographic shore line be adjusted to that information - See also PP G -. *(Air-photo shoreline held; supplemented by that shown on G.C. sheets)*

F - CONTROL STATIONS:

Control stations, NOBLE, and GEOG fall within the sheet. The approximate location of station MOON was recovered and used for control of graphic control. Station FAIRMOUNT CHURCH SPIRE was used in the graphic control.

Hydrographic signals were located by graphic control methods. Due to sparsity of triangulation, it was necessary to do the graphic control sheets on a scale of 1:20,000.

Signals, CUE, BAR and EGG were located by Hydrographic methods, used for control of hydrography on the boat sheet and later located by graphic control. Station LIZ was not definitely identified by the Graphic Control party and should be considered a Hydrographic location, it should of course be located by plotting outs, etc., on the smooth sheet.

**signal LIZ not used for control hydro.*

Station POP - Graphic control Sheet CO48-E, was located on rather intersections, and adjustment of position was found necessary while executing Sheet CO-49-F. This signal should be expunged from Sheet E, and the position shown on Sheet F used on the smooth sheet. Sheet E has already been forwarded to the Processing Office with Hydrographic Sheet CO-1149, but Signal POP does not fall on that sheet. (*G.C. sheets destroyed*)

*slender
Correction made in Processing Office by H.L.P.*

No Desc. Reports furnished

G - SHORE LINE AND TOPOGRAPHY:

Shore line as delineated on the air photograph compilations was found generally satisfactory, exceptions noted; E side of Tangier Sound, Latitude 38 - 01.2-.

Shift due to erosion and shifting of live sand shore line has been shown on Boat Sheet "A", but shore line in this area is considered subject to continual change. Shore line East of Longitude 75 -46 is considerably in error and should be adjusted to signals TIT, ROE, ANT, BOY, DOG, FAT and EVA, all of which are located on the shore line. See H-7779.

Air-photo shore line generally held and supplemented by sections shown on G.C. sheets & boat sheet of pres. survey.

Along South side of entrance of Goose Creek, error in shore line indicated on Boat Sheet "A" can be attributed to difficulty in identification on photographs, and/or shifting of live sand.

A number of signals actually on the shore line fail to plot thereon. The failure is of such magnitude that failure may be due to errors in plotting and/or transferring signals. The signals should be plotted on smooth sheet, reference made to "list of signals", for those located on the shore line, and air photograph shore line adjusted to them. See also PP "E" SMOOTH SHEET.

(See also Processing Office Addendum) (C.C. sheets destroyed) No D.R's

H - SOUNDINGS:

Depths measured with type 808 Fathometer, hand lead and pole. Pole soundings required on account of crab grass. Elaborate precautions have been taken to avoid erroneous soundings on account of echoes from grass, and considerable pole and fathometer hydrography has been accomplished. Necessity of comparison and possible elimination of faulty fathometer soundings in grassy areas exists. Pole soundings should be accepted rather than soundings by fathometer in depths less than five (5) feet.

I - CONTROL OF HYDROGRAPHY:

Standard method of three point fixes on shore objects employed throughout except in upper reaches of tributaries of little importance and/or narrow and suited for boat sheet position control.

J - ADEQUACY OF SURVEY:

Survey is complete and adequate to supersede all previous surveys for charting purposes. Hydrography in tributaries has been carried into "0" soundings or to limit of navigation by anything at low water.

Except for use of boat sheet positions in upper reaches of tributaries and in extremely shoal indentations, no portion of this survey is of less than standard accuracy.

H-7722 (1949)

Junction to Sheet-1149 in Tangier Sound appear to be entirely satisfactory. Junction in Daugherty Creek should be examined after smooth plotting.

K - CROSSLINES:

Crosslines, Junctions ARK-LAUNCH and overlap at junctions provide crossline comparisons in excess of project instructions. Crossings are generally satisfactory, exceptions noted are:

Estuary at Latitude 38 - 04, Longitude 75 - 49.5 - (2) foot crossings between "c" and "e" day ARK. Additional soundings done on "1" day ^{we're} resolve these discrepancies. It is hoped that smooth plotting and final tide reducers will eliminate the discrepancies. (Crossings O.K.)

(2) foot crossing "e" day ARK, Latitude 38 - 04.2, Longitude 75 - 49.95, can be attributed to lumpy bottom. Area is of little or no importance, inasmuch as controlling depth within this estuary is one (1) foot at mean low water.

L-M - COMPARISON WITH PREVIOUS SURVEYS, CHART:

Preliminary Review. 5 "Oyster House". Latitude 38 - 05.6, Longitude 75 - 46.5. Considerable shift in shore line from the chart is noted. However no oysterhouse or other structure detached from the shore line is extant, and the symbol should be expunged from the chart.

noted in
Review,
par. 5.

6 - Oysterhouse, Latitude 38 - 03.1, Longitude 75 - 48.2 - No oysterhouse or other structure detached from the shore line is extant in the vicinity; symbol should be expunged from chart.

Two (2) foot soundings, latitude 38 - 03.2, Longitude 75 - 49.6 - Shoalest water found is three (3) feet from examination of ^{smooth} boat sheet, However, sounding cannot be considered definitely disproved and should be retained. ~~expunged~~ retained

Two (2) feet, Latitude 38 - 03.5, Longitude 75 - 51.4, shoalest water (2 ft. from N.Y.) found was three (3) feet, (examination of boat sheet) but sounding cannot be considered definitely disproved and should be retained. ~~expunged~~

Four (4) feet, Latitude 38 - 02.8, Longitude 75 - 50.5, numerous four (4) foot soundings in close proximity of this position. All other critical soundings charted are confirmed or less water found by the survey.

Shifted to
agree with
this Survey

N - DANGERS AND SHOALS:

Sufficient protection against numerous banks and shoals is afforded by buoys and aids to the entrance to Colbourn Creek. The, bare at low water, bar extending off Persimmon Point for a distance 0.1 mile constitutes a danger, and can be avoided by passing more than 0.1 mile off Persimmon Point.

Wreck shown on air photograph, Latitude 38 - 04.52, Longitude 75 - 46.01, could not be verified in it's air photograph position. A small wreck was found on the beach to the West of the position indicated. The wreck is of no value as a landmark and should not be charted.

Q - COAST PILOT NOTES:

Ref.: U. S. Coast Pilot; Section "C". Atlantic Coast 1947
Edition - Page 307, lines 1 - 8.

Line two (2), eliminate, "has a depth of eight (8) feet for five and one half miles ($5\frac{1}{2}$) above the mouth", substitute, "nine (9) feet at mean low water can be carried for $5\frac{1}{2}$ miles above the mouth to the entrance to Colbourn Creek; seven (7) feet, $1\frac{1}{2}$ miles farther, to abeam of Sandy Point; and three (3) feet, $1\frac{1}{2}$ miles farther. There are no buoys or aids above Long Point Beacon, five (5) miles from the mouth.

ADDITIONAL NOTES:

ANCHORAGES: During progress of the Survey, the COWIE anchored at Latitude 38 - 03.5, Longitude 75 - 48.12, eighteen feet of water, mud and broken shell bottom, excellent holding ground. The anchorage is exposed to West and Southwest, but some protection is afforded by shoals.

To anchor, pass one-hundred (100) yards North of Long Point Beachn O/c 075 mag., Long Point Beacon just open to South of Jackson Island Beacon No. 1; cross range, large building at planing mill over sawdust pile.

Satisfactory anchorage for vessels drawing six (6) feet or less can be found in the reach above Moon Bay. Caution must be exercised in passing Sandy Point to avoid shoal which extends four-hundred yards off the point.

An excellent storm anchorage, or hurricane hole, for vessels drawing five (5) feet or less is found in Colbourn Creek ($\frac{1}{4}$) mile past the point on which the planing mill is located, in mid-stream; depths, five (5) to six (6) feet at mean low water, good holding ground, completely land locked.

TRIBUTARIES:

Daugherty Creek, Northern terminus of Annemessex Canal; critical areas of this body of water lie on Sheet-1149 and are discussed in report for that sheet, Q-V.
H-7722 (1449)

Jones Creek, on South side of river, two (2) miles above the mouth has depths of five (5) feet for about one (1) mile above Jackson Island Beacon 1, but channel is very narrow and crooked, and unmarked. Channel should not be attempted except with local knowledge. Two (2) feet can be carried for about 0.4 mile further into the Western branch. This area is used by local fish and oyster men.

Colbourn Creek, two miles above Jones Creek has depths of five (5) feet over the bar and for a distance of $\frac{3}{4}$ mile above the entrance. Two feet can be carried for $\frac{1}{2}$ mile further. Colbourn Creek is an excellent storm anchorage.

There is a planing mill $\frac{1}{4}$ mile above the entrance, with a small wharf to which vessels drawing five (5) feet can moor, length along face, thirty three (33) feet. No supplies are available, no water is piped into this wharf. A small bight just East of the planing mill with depths of two (2) to three (3) feet is used by local fish and oyster men.

Gales Creek, two (2) miles above Colbourn Creek has depths of three (3) feet for 0.4 mile above it's mouth. Two (2) feet for 0.2 mile further. Above this latter point it is a mud flat. There is little or no traffic.

Big Annemessex River, ^{east of} ~~above~~ Longitude $75^{\circ} - 46.5$ is a mud flat of no value as a waterway. No traffic was noted during progress of survey. The fixed highway bridge at Latitude $38 - 05.2$, Longitude $75 - 44.8$ has a horizontal clearance of fifteen (15) feet, and a vertical clearance of three and one-half ($3\frac{1}{2}$) feet at mean high water.

None of the tributaries along the North and West side of the river below the creek at Longitude $75 - 49.5$ has any value as a waterway. This latter creek has depths of three (3) feet inside and is used by oyster and fish men. There is a crab house just inside this creek.

Bight West of Sandy Point has depths of three to five (3 - 5) feet, mud bottom. Area is of no apparent value and no traffic was observed during progress of survey.

Moon Bay, a shallow bay Northeast of Sandy Point has depths of three to five (3 - 5) feet, mud bottom, is of no apparent value as a water way. No traffic was observed during progress of the survey.

Upper Fairmount Creek, ^{Hall Creek} one and one-half ($1\frac{1}{2}$) miles above Moon Bay on Western side of the river has depth of one (1) foot at mean low water for about one (1) mile above it's mouth. Creek is considerably used by local fish and oyster men who live along the banks

Note: Evidence is that the fresh water table is the controlling factor in the value of this creek.

Mine Creek, tributary of Manokin River, is included in this sheet on account of limitations in size of Sheet CO-1349. Mine Creek is on the South bank of the Manokin River, just above the mouth it had depth of four (4) feet accross the bar, depths of six (6) feet inside and four (4) feet for 0.9 mile above the mouth.

This creek is unique in that shoals making off from the banks are not obscured by crab grass and channel can be seen if light is right. It is suspected that these shoals are subject to shifting. Channel at the mouth is one-hundred (100) yards wide between shoals of two to three (2 - 3) feet.

The creek is little used as a water way, traffic in this area being concentrated in Goose Creek, the next creek to the Northeast.

CURRENTS:

Currents estimated at maximum, 0.5 knot ebb and flood West of Longitude 75 - 49, and 1.0 knot East of that point, in the narrower reaches of the river. Flood sets East and Northeast, ebb West and Southwest.

P - AIDS TO NAVIGATION:

Shoals making off the points West of Colbourn Creek, (Longitude 75 - 48) are adequately buoyed. East of this point no aids are maintained. Fixed aids to navigation, located by Graphic control have been reported on Form 567. Floating aids to be reported by Processing Office after smooth plotting.

Q - LANDMARKS FOR CHARTS:

Reported on Form 567. C.L. 403(1949)

R - GEOGRAPHIC NAMES:

Creek called "Upper Fairmount Creek" in this report; no established local name for this creek could be ascertained. Suggested name for this creek ~~is~~ is based on fact that creek approaches the village of Upper Fairmount.

Other names appear on Chart-1224.

U-Y - Miscellaneous:

Hydrographic signal TOP is identical with a control point of State of Maryland Conservation Commission.

Graphic control positions of prominent objects have been furnished ~~to~~ to the State of Maryland Conservation Commission.

Respectfully submitted
Peter B. Hartman
Chief of Party

BAR CHECK CORRECTIONS
SHEET No. C01249-

	5	10	20	30					
9 June	5.0 5.0	10.0 10.0							
14 June	5.0 5.0	10.0 10.0	20.0 20.0						
15 June	4.8 5.0	10.0 10.0	20.0						
16 June	5.0 5.0	10.0 10.0	20.0						
21 June	5.0 5.0	10.0 10.0							
23 June	5.0 5.0	10.0 10.0	20.0						
24 June	5.0 5.0	10.0 10.0							
27 June	4.8 4.9	10.0 10.0							
28 June	5.0	10.0 10.0	20.0						
29 June	5.0 4.8	10.0 10.0							
Mean	4.96	10.0	20.0						CORRN IS 0.0

FLOATING AIDS TO NAVIGATION
To Accompany

HYDROGRAPHIC SURVEY H-7778 (Field No. Co-1249)

<u>LIGHT LIST</u>	<u>LAT.</u>	<u>METERS</u>	<u>LONG.</u>	<u>METERS</u>	<u>DEPTH</u>	<u>POS. NO.</u>	<u>DATE</u>
Big Ann ^e messex River Wreck Lighted Buoy 4A ✓	38-03	178	75-51	266	13 $\frac{1}{2}$	3a(red)	6/9/49 ✓
Flatcap point Shoal Buoy 2A ✓	38-02	910	75-53	463	15	93a(red)	"
Channel Buoy 1 ✓	38-03	282	75-52	480	11	10a(red)	"
Channel Buoy 2 ✓	38-02	1323	75-52	568	13 $\frac{1}{2}$	9a(red)	"
Big Ann ^e messex River wreck Buoy 3A ✓	38-03	26	75-51	297	14 $\frac{1}{2}$	4a(red)	" ✓
Jackson point Shoal Buoy 4 ✓	38-03	755	75-49	682	13 $\frac{1}{2}$	2a(red)	"
Crain point Shoal Buoy 3 ✓	38-03	535	75-48	1377	13	1a(red)	" ✓
Manokin River Entry ance Lighted Buoy 2 ✓	38-03	720	75-54	238	19	70e(red)	6/21/49
Manokin River Buoy 3 ✓	38-03	1732	75-54	188	13	132f(red)	6/23/49

STATISTICS
To Accompany

HYDROGRAPHIC SURVEY H-7778 (CO-1249)

ARK

<u>DATE</u>	<u>DAY</u>	<u>VOL.</u>	<u>STAT. MI.</u>	<u>POS.</u>	<u>BAR CHECKS</u>	<u>HL&P</u>	<u>REMARKS</u>
JUNE 7							
8							Sig. b'ldg.
9							" "
14	a	3	13.5	127	2	153	Topo " $\frac{1}{2}$
15	b	3	16.0	150	3	501	
16	c	5	3.5	29		103	
23	d	5	10.6	87		558	
24	e	5	22.0	180		1134	
27	f	8	20.9	153		965	
28	g	8&9	37.5	271	2	1760	
29	h	9&12	27.5	247	2	1272	
30	j	12	16.5	159	2	584	
JULY 1	k	12	17.5	144		904	
27	l	13	18.6	120		688	
28	m	13	0.8	10		42	
SEPT.29	n	13	3.8	36	2		
TOTALS			208.7	1713	13	8664	

LAUNCH 102

JUNE 9	a	1	45.3	223	2	13	
14	b	1&2	42.8	249	2	19	
15	c	2	27.7	142	2	13	
16	d	4	19.8	107	2	21	
21	e	4&6	50.5	266	2	22	
23	f	6	44.5	216	2	2	
24	g	7	20.1	112	2		
27	h	7	18.4	111	2	14	
28	j	7&10	35.5	198	2	35	
29	k	10&11	32.7	201	2	21	
JULY 1	l	11	12.0	65	2	28	
SEPT 30	m	11	2.1	20	1		
TOTALS			333.0	1910	23	188	

TOTAL FOR SHEET

Statute miles of sounding lines	-----	560.1
Soundings, HL & pole	-----	8852
Area, sq. statute miles	-----	17.0
Number of positions	-----	3623

ADDENDUM
To Accompany

HYDROGRAPHIC SURVEY H-7778 (CO-1249)

DISCREPANCIES

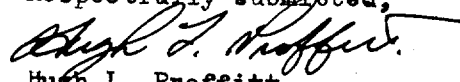
There are discrepancies of about twenty meters between hydrographic and graphic control locations of signals CUE and EGG. Graphic control positions of the signals were used on the smooth sheet with generally good results, however, discrepancies in crossings at Lat. 38-04.5, Long. 75-53.8, positions 28 to 30k and 38 to 40k, launch 102, may be caused by displacement of these signals. (*Discrepancies unimportant; plotting of hydrography acceptable*)

SHORELINE

Minor shore-line changes are indicated on the smooth sheet in a dashed pencil line. (*changes noted & inked*)

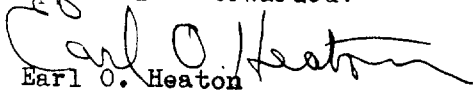
Shore-line East of Long. 75-46 was left in pencil as an adjustment in shore-line and/or graphic control position is indicated. (*Matter of interpretation in marshy area. Air photo shoreline accepted*)

Respectfully submitted,


Hugh L. Proffitt
Cartographer.

Norfolk, Va.
8 August 1950

Approved & Forwarded:


Earl O. Heaton
Supervisor, Southeastern District.

GEOGRAPHIC NAMES

Survey No. H-7778

No. 1

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		
N.B.: since there are so many possible names for this sheet and it is not yet inked, approved names have been indicated on the attached copy of the MARION 7 1/2' quadrangle. On that map all approved names which may be wanted for this sheet are underlined in black. The names also underlined in red are those which are mentioned specifically in this report. All names are listed below.										1
										2
										3
										4
<u>Maryland</u>									USGB	5
<u>Chesapeake Bay</u>									"	6
<u>Big Annemessex River</u>			(not Annemessex)							7
<u>Platoap Point</u> ✓									USGB	8
<u>Rock Pond</u>										9
<u>Rock Hole</u>									USGB	10
<u>Red Hole</u>										11
<u>Acres Creek</u>									USGB	12
<u>Daugherty Creek</u> ✓									"	13
<u>Annemessex Canal</u>									"	14
<u>Jones Creek</u> ✓										15
<u>Jackson Island</u> ✓										16
<u>Wear Point</u>										17
<u>Joes Cove</u>										18
<u>Joes Gut</u>										19
<u>Long Point</u>										20
<u>Colbourn Creek</u> ✓									USGB	21
<u>Gales Creek</u> ✓										22
<u>Persimmon Point</u> ✓									USGB	23
<u>Holland Point</u>										24
<u>Holland Creek</u>										25
<u>Myrtle Point</u>										26
<u>Hall Creek</u>			(not Upper Fairmount Creek, as proposed on page 6 of report)							27

GEOGRAPHIC NAMES

Survey No. H-7778

No. 2
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>Charles Point</u> ✓									USGB	1
<u>Horsehead Point</u>									"	2
<u>Mud Point</u>										3
<u>Moon Bay</u> ✓									USGB	4
<u>Moon Creek</u>										5
<u>Sandy Point</u> ✓										6
<u>Crane Cove</u>										7
<u>Scott Point</u>										8
<u>Fords Cove</u>										9
<u>Middy Creek</u>										10
<u>Flatland Cove</u>										11
<u>Shirtpond Cove</u>										12
<u>Goose Creek</u>										13
<u>Mine Cove</u>										14
<u>Mine Creek</u> ✓										15
<u>Pat Island</u>										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Above names underlined in red are approved.

9-6-50

L. Healy

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7778

Records accompanying survey:

Boat sheets ².....; sounding vols. ¹³.....; wire drag vols.;
 bomb vols.; graphic recorder rolls ^{11 envel.}.....;
 special reports, etc.

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

Number of positions on sheet		3623
Number of positions checked		45
Number of positions revised		0
Number of soundings revised (refers to depth only)		3
Number of soundings erroneously spaced		48
Number of signals erroneously plotted or transferred		0
Topographic details	Time	16
Junctions	Time	16
Verification of soundings from graphic record	Time	15

Verification by *Crichton, O. DeMay*..... Total time 261..... Date 8 Nov 51

Reviewed by *J. A. Dinmore*..... Time 24 hrs. Date 10 Mar. 1952

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7778

FIELD NO. CO-1249

Maryland, Tangier Sound, Big Annemessex River and Approaches

Project No. CS-287

Surveyed in June - September 1949

Scale 1:10,000

Soundings:

808 Fathometer
Hand lead
Pole

Control:

Sextant fixes on shore signals

Chief of Party - E. B. Latham
Surveyed by - E. B. Latham
Protracted by - A. Anninos
Soundings plotted by - A. Anninos
Verified and inked by - C. O. De Marr
Reviewed by - T. A. Dinsmore, 10 March 1952
Inspected by - R. H. Carstens

1. Shoreline and Signals

The shoreline originates with air-photographic surveys T-8150 and T-8151 of 1942. The sections of shoreline shown in red are from present survey information.

The signals are from graphic control surveys CO-49-E and F (field-numbered sheets) which are to be destroyed subsequent to the verification and review of the surveys in this area.

2. Sounding Line Crossings

Depths at crossings are in very good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated.

Except for minor irregularities, the bottom is fairly smooth. Shoal flats of varying extent are found throughout the area. A natural channel with depths ranging from 1 to 28 ft. extends southwestward from the northeastern limits of the survey.

4. Junctions with Contemporary Surveys

Adequate junctions were effected with H-7779 (1949) on the north-west and H-7782 (1949) on the west. Although the junction with

H-7722 (1949) on the southwest appears adequate, a final inspection of the junction must await the complete verification of H-7722. At the present time, the latter survey has been only partially verified.

5. Comparison with Prior Surveys

H-557 (1856) 1:40,000	H-2595 (1901-02) 1:20,000
H-707 (1858-59) 1:20,000	H-2611 (1902) 1:20,000
<u>H-1447a (1878) 1:40,000</u>	<u>H-2616 (1901-02) 1:20,000</u>

The surveys of the period 1901-02 provide the most complete prior coverage of the area under consideration. A comparison between the prior and present surveys reveals that depths along the axis of the natural channel of Big Annemessex River have decreased from 1 to 3 ft. An example of this occurs in lat. $38^{\circ} 03.30'$, long. $75^{\circ} 50.35'$, where prior depths of 18-19 ft. are now superseded by depths of 15-16 ft. Except for the changes in the channel depths, only minor differences of 1-2 ft. are noted between prior and present depths elsewhere in the area. Discrepancies in shoreline delineation are also noted between the prior and present surveys. Although erosion has undoubtedly caused some of the differences, particularly on the exposed outer coastline, many of the shoreline discrepancies are attributed to differences in interpretation of the high-water line in marshy lowland.

Two oysterhouses charted in lat. $38^{\circ} 05.62'$, long. $75^{\circ} 46.40'$ and lat. $38^{\circ} 03.03'$, long. $75^{\circ} 48.24'$, respectively, from T-2550 (1901-02) should be removed from the chart. Investigation during the present survey disclosed the former oysterhouses to be now nonexistent.

The present survey is adequate to supersede the prior surveys within the common area.

6. Comparison with Chart 1224 (Latest print date 7/30/51)

A. Hydrography

Charted hydrography originates principally with the prior surveys of 1901-02 which need no further consideration. Critical information only has been charted from the present survey prior to verification and review. The present survey entirely supersedes the charted hydrography.

B. Aids to Navigation

The lighted buoy charted in lat. $38^{\circ} 04.51'$, long. $75^{\circ} 53.81'$, was established subsequent to the present survey (H.O. Notice to Mariners 18, 1950).

9.4

The buoy located in lat. $38^{\circ} 03.41'$, long. $75^{\circ} 49.47'$, on the present survey is charted about 200 meters westward from the survey position. The survey position more adequately marks the point of the shoal on the turn in the channel.

Except as noted, aids on the present survey are in substantial agreement with the charted aids and adequately mark the features intended.

7. Condition of Survey

- a. The sounding records are complete; the Descriptive Report covers all matters of importance.
- b. The smooth plotting was accurately done.

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work

This is an excellent basic survey and no additional field work is required.

Wallace A. Bruder

~~H. R. Edmonston~~
Acting Chief, Nautical Chart Branch

L. S. Hubbard

L. S. Hubbard
Chief, Section of Hydrography

Examined and approved:

H. Arnold Karo

H. Arnold Karo
Chief, Division of Charts

W. M. Scaife

for W. M. Scaife
Chief, Division of Coastal Surveys

Jenkins

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~DIVISION OF HYDROGRAPHY AND TOPOGRAPHY~~

31 August 1950

Division of Charts: R. H. Carstens *GFC*

Plane of reference approved in
13 volumes of sounding records for

HYDROGRAPHIC SHEET 7778

Locality Big Annemessex River, Maryland

Chief of Party: E. B. Latham in 1949
Plane of reference is mean low water, reading
2.2 ft. on tide staff at Long Point (Colbourn Creek)
0.3 ft. below B. M. 1 (1949)
2.7 ft. on tide staff at Teague Creek.
2.2 ft. below B. M. 1 (1949)

Height of mean high water above plane of reference is 2.1 feet.

Condition of records satisfactory except as noted below:

E. C. McKay
Section
Chief, ~~Division of Tides and Currents.~~

