Diag. Cht. No. 78-3.

Form 50

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydre graphic

Field No. CO-1255 Office No. H-3277

LOCALITY

State Virginia

General locality Chesapeake Bay

Locality Vicinity of Smith Point

19.55

CHIEF OF PARTY

D.A. Jones, W.N. Martin & K.S. Ulm.

LIBRARY & ARCHIVES

DATE February 2, 1959

USCOMM-DC 5087

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.

REGISTER No. H-8277.

Field No. ..CO-1255.....

State Virginia
General locality Chesapeake Bay
Vicinity of Smith Point Locality Great Wicomico River to Smith Point (Inshere area)
Scale 1:10,000 Date of survey 4 April 1955-27 Sept. 195
Instructions dated 5 Feb. 1953, 25 Feb. 1954, and 14 Jan. 1955
VesselUSC&GS_&hip_COWIE
Chief of party Lt. Cdr. D. A. Jones, Cdr. W. N. Martin, Cdr. K. S. Ulm.
Surveyed byOfficers, Ship CONTE
Soundings taken by fathometer, graphic recorder, hand lead, wire and sounding pole
Fathograms scaled by Personnel, Ship COWIE
Fathograms checked by Personnel, Ship COWIE
Protracted byA.G. Atwill
Soundings penciled by
Soundings in fathoms feet at MLW MILW are true depths
Remarks:

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SURVEY H-8277

FIELD NO. CO-1255

CHESAPEAKE BAY

GREAT WICOMICO RIVER to SMITH POINT

SHIP COWIE

SCALE 1:10,000

Don A. Jones
William N. Martin
Kenneth S. Ulm
Commanding

A. Project:

Project CS-1287, Supplemental Instructions dated 5 February 1953, 25 February 1954, and 14 January 1955.

B. Survey Limits and Dates:

This survey includes the upper reaches of Cockrell Creek, the Little Wicomico River and tributaries, and Chesapeake Bay from Chesapeake Beach to Smith Point and eastward to Longitude 76° 10'.

Junctions with contemporary surveys are as follows: CO-1654 to the South, CO-2155 to the east, and CO-2155 and CO-1355 to the north.

H-8280 (1955) 4 H-8435 (1956)

H-8278 (1955) 7 H-8283 (1955-56)

The survey began on 21 April and concluded on 27 September 1955.

C. Vessels and Equipment:

Launch 102, equipped with 808 type fathometers 114-S, 156-SPX, and 118-S, was used in the Chesapeake Bay, in general depths of five feet and upward. Skiff 749, equipped with 808 type fathometer 114-S and sounding pole, was used exclusively in Cockrell Creek and the Little Wicomico River, and in shoal areas along the shore of Chesapeake Bay. A 16 ft. aluminum skiff, equipped with sounding pole, was used for making a tagline survey of the entrance channel to the Little Wicomico River.

The Launch and skiffs operated from the Ship COWIE.

D. Tide and Current Stations:

A portable automatic tide gage was maintained at the Great Wicomico River Lighthouse throughout the entire period of this survey, and one was maintained at Sunnybank, Little Wicomico River, while performing surveys in that area. Tide gage records and soundings are on Eastern Standard Time.

No current stations were occupied within the limits of this survey.

E. Smooth Sheet:

Construction and plotting of the smooth sheet will be by the Norfolk Processing Office.

F. Control Stations:

Triangulation S	Stations:
-----------------	-----------

Hydrographic Names:

Little Wicomico River Light 1, 1955	Jet	
*Little Wicomico River Light 3, 1952	*Pau	* Tanoaraphic Stations
*Little Wicomico River Light 5, 1952	⋆ Sex	* Topographic Stations from T-11049
Reedville Morris Factory Stack, 1938	Stak	••••
Reedville Municipal Water Tank, 1955	Aft	
Sig, 1955	Sig	
Smith Point Lighthouse, 1898	Smith	

Topographic: Sheet CO-1255 - Manuscript T-11049

Abe Cop Fox Jay Nip Tax	
INC. Act Deb Gal Jim Nix Tom	
Add Dif Gam Job Oak Try	
Aim Dim Gas Joy Odd Use	
Alp Dip Gem Ked Oil Val	
Amp Dud Get Key Old *Vet	٧ex
Ann Ebb Gin Kid Par Vet	
Axe Eel Guy Kim Pep Vim	
Bag Egg Ham Lax Pet Wad	
Bed Elf Hat Lay Pup Wag	
Bob Elm Her Leg Ram War	
Bon Emo Hid Lip Rig Was	
Bum Eon Hoe Mal Rim Wax	
Bus Few Hop Man Rub Yak	
Cab Fig Hug Mar Sad Yam	
Car Fin Ice Mid Sag Yea	
Cat Fit Its Nat Set Yet	
Cod Fly Ivy Nay Tan Zig	
Con Foe Jaw Ned Tap Zoo	

Sam - Sam (1943) 1952 Tor - Tor(1943) 1952

*Used twice on sheet.

Sheet CO-1255 - Manuscript T-11051

Ace	Box	Doo	Fez	Ion	Pal
Ago	But	Don	Fro	Irk	. Peg
Aha	Cam	Dot	Fun	Jap	Rag
Amy	Cap	Dun	Gad	Jar	Rat
Ant	Caw	Duo	Gag	Ken	Ray
Ave	Coo	Ear	Geo	Lad	Rev
Azo	Cow	Eat	Gig	Lam	Sal
Bah	Cry	Era	Gob	Lee	Sio
EXT Ba		Erg	Hag	Mag	Sis
Bat	Cur ·	Eva	Hem	Mas	Tex
Bib	Cut	Far	Hex	Nut	Tub
Big	Daw	Fat	His	Off	Yes
Boa.	Day	Fed	Ida	Owl	Zag

F. Control Stations (Cont.):

Signals located by sextant:

G. Shoreline and Topography:

The shoreline on the boat sheet was transferred from aerial-photograph manuscripts T-11049 and T-11051. of 1952-54. Reviewed photogrammetric surveys were applied to smooth sheet.

It was not practical to define the entire low water line by soundings due to the small range of tide in this area. The following areas have shoreline carrections as shown in red ink on the boat sheet.

1.	Latitude	37 0	53.31.	Longitudo	76°	17.58 See addendum pg	
2.		370	53.501		760	17.881. See 2000 noum py	. 10
3.		370	53.601		760	17.441.	
4.	**	370	52.45	11	76°	16.121. v /s/et	
5.	Ħ	370	53.08	t t	76°	16.99 · V Islet	
6.	**	37 0	53.201,	11	76°	18.08 . ~ Pond	

H. Soundings:

Soundings, which were taken with the 808 type fathometer, hand lead, and sounding pole, agree satisfactorily and depth curves can be adequately drawn at the junctions.

I. Control of Hydrography:

Sounding: lines were controlled by three-point fixes using natural objects or signals erected along the shoreline. Satisfactory results were obtained from using these signals.

J. Adequacy of Survey:

This survey is considered complete, adequate for charting purposes, and should supersede all prior surveys. Junctions with the adjoining surveys are satisfactory, no holidays exist, and depth curves can be drawn adequately at the junctions.

K. Crosslines:

Crosslines are in good agreement and comprise approximately ten percent of the principal system of lines.

L - M. Comaparison with prior Surveys and Charts:

1. Item 1 (Preliminary Review). (This item In is assumed to be the same as item 9 of the Preliminary Review-Smith Point to Point No Point). The charted wreak at latitude 370 53.334,

557

L - M. Comparison with Prior Surveys and Charts (Cont.):

longitude 76° 15.68 is from a Corps of Engineers Survey, Bp.
50834 (1936-37). A thorough investigation was conducted with a
16 fb. aluminum skiff, using a sounding pole (see "d" day, p. 70,
Vol. XIV, CO-1255); the least depth obtained being five feet.*
Local residents were unable to furnish any information concerning
such a wreck. Therefore, in considering the time involved, it is
believed that the wreck has broken up and disappeared in the sand,
and should be deleted from the chart.* A 3' pole sounding was found at this
position on line 96-975. See Review p 7A.

2. Item 10 (Preliminary Review) states that the charted feature at latitude 57° 54.00°, longitude 76° 16.28°, is an islet as compiled on T-11049 (Bp. 47922). The 1955 survey of this area verifies the above information.

5. At latitude 57° 50.65°, longitude 76° 17.42°, are two two) 534 small wrecks on beach, pos. 118a. Skiff 749.

- 4. At latitude 37° 50.30°, longitude 76° 17.37°, is a sub-
- 5. At latitude 37° 50,47°, longitude 76° 17.28°, is a lone 53° pile, pos. 132-135a. Skiff 749.
- 6. At latitude 37° 50.18°, longitude 76° 16.59°, is a submerged wreck, pos. 25b. Skiff 749.
- 7. At latitude 37° 50.50°, longitude 76° 16.17°, is a sub-
- 8. At latitude 37° 50.58', longitude 76° 16.51', are two lone piles, pos. 64-65b; Skiff 749.
- 9. At latitude 37° 50.92°, longitude 76° 16.87°, is a group of piles bare 10 feet, pos. 31d, Skiff 749.

10. Latitude 37° 50.57', longitude 76° 16.59', marks the offshore end of a group of mooring piles, pos. 70dg Skiff 749.

- 11. At latitude 37° 50.48', longitude 76° 16.75', is a group of mooring piles bare eight feet, pos. 74d, Skiff 749.
- 12. It should be noted that this report only gives a partial list of the numerous wrecks and ruins in the vicinity of Cockrell Creek. The ones that could be located on aerial photographs are shown in red ink on the manuscript, which should be referred to in plotting the smooth sheet.
- 13. At latitude 37° 54.60', longitude 76° 16.63', is a previously uncharted wreck baring four feet at MLW, pos. 64e, Skiff 749. 55
- 14. At latitude 37° 53.70', longitude 76° 16.14', is a pre- 55' viously uncharted wreck, pos. 119e, Skiff 749.

L - M. Comparison with Prior Surveys and Charts (Cont.):

15. At latitude 37° 53.97', longitude 76° 17.02', is a previously uncharted wreck baring four feet at MLW, pos 55f, Skiff 749.

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55/

- 16. At latitude 37° 54.04', longitude 76° 17.03', is a previously uncharted wreck baring three feet at MLW, between pos. 57 and 58f, Skiff 749.
- 17. At latitude 570 54.04', longitude 760 17.95', are two previously uncharted wrecks, pos. 98h, Skiff 749.
- 181 At latitude 37° 53.42', longitude 76° 16.15', is a pile baring five feet at MLW, pos. 111-1, Skiff 749.
- 19, Previously uncharted power cables cross Bridge Creek at the following locations:

Latitude 37° 52.20°, longitude 76° 17.30°, latitude 37° 52.30°, longitude 76° 16.40°, latitude 37° 52.35°, longitude 76° 16.10°.

534

- 20. A comparison with Chart 534 (print date 2/9/53) indicates a general deepening of from two to eight feet in the area between Smith Point and Chesapeake Beach. (Outside of 6' curve) See Review p6
- 21. At latitude 37° 50.94°, longitude 76° 14.48°, general depths of 16 feet were obtained in charted depths of eight feet.
- 22. At latitude 37° 52.70°, longitude 76° 12.71°, general depths of 20 feet were obtained in charted depth of eight feet.

 Checked Sittinsounding ecroneous. See Review P 6

534

- 23. A comparison with Chart 557 (print date 10/18/54) indicates a general shoaling of the eastern tip of the shoal making off Smith Point.
- 24. General depths of eight feet were obtained at latitude 37° 53.22', longitude 76° 11.54', incharted depths of 27 feet.

N. Dangers and Shoals:

- 1. At latitude 37° 52.60°, longitude 76° 16.40°, is the edge of a shoal, pos. 124p, Skiff 749.
- 2. At latitude 37° 52.57', longitude 76° 16.30', is the edge of a shoal, pos. 125p, Skiff 749.
- 3. At latitude 57° 52.52°, longitude 76° 16.27°, is the edge of a shoal, pos. 126p, Skiff 749.
- 4. At latitude 37° 53.25°, longitude 76° 14.60°, a sand bar is defined, pos. 56-60s, Skiff 749.
- 5. It should be noted that the shoal making off Smith Point is changing in the vicinity of Smith Point Lighthouse (see L-M, item 25).

O. Coast Pilot Information:

The 1955 Coast Pilot Report is being prepared as a separate report.

P. Aids to Navigation:

Form 567, Nonfloating Aids to Navigation, is being prepared as a separate report.

There are no Floating Aids to Navigation within the limits of this survey.

Q. Landmarks for Charts:

Form 567, Landmarks for Charts, is being prepared as a separate Cht. Ltr 288 (1955). Triangulation position below.

The following landmark is recommended for the area covered by this survey:

Reedville Municipal Water Tank (signal Aft) @ latitude 37° 50° 726.2 M (1123.5 M), and longitude 76° 16' 939.5 M (527.§ M).

R. Geographic Names:

Geographic names as shown on the charts of this area are adequate and no additional names are recommended.

U - Y. Miscellaneous:

Fathometer corrections were obtained by averaging all bar checks according to the fathometer and survey vessel used.

Z. Tabulation of Applicable Data:

A list of signals is attached to Vol. I of the sounding volumes.

A tabulation of other data is included as part of this report.

Respectfully submitted,

Albert J. Ramey

Lt. (jg), USC&GS

Robert J. Black

Ens., C&GS

Approved and forwarded,

Kenneth S. Ulm Comdr., USC&GS

Commanding Ship COWIE

TIDAL NOTE - SHEET CO-1255

A portable automatic tide gage was maintained at the Great Wicomico River Lighthouse throughout the entire period of this survey, and was used for obtaining tide reducers outside of the Little Wicomico River. Another portable automatic tide gage was maintained at Sunnybank, Little Wicomico River, and was used for obtaining tide reducers for the Little Wicomico River. Great Wicomico tides were substituted for Sunnybank tides when the latter gage was inoperative, with a time difference of \$\neq 2:35\$ and a range ratio of 0.7. No other time or height corrections were applied. The hourly heights were scaled from the marigrams and the tide curves were plotted by personnel of the Ship COWIE.

STATISTICS:

Launch No. 102:

Vol. No. I II III III IV IV V V V	Date 6/22 6/23 6/27 6/30 6/30 7/6 7/7 7/14 7/26 1 /26 1/28 8/31	Day Letter a b c d d e f f g h h	No. of Pos. 155 52 65 206 16 199 59 146 85 43 127 46 50	Stat. Miles 23.3 8.0 13.2 33.8 2.5 30.4 11.0 18.1 14.7 6.6 18.6 5.8 9.6
V VI	9/1	ī	167	25.5
Totals	·		1416	221.1
skiff 749	•			
XIII XIII XIII XII XII XII XII XIII AIII AIII	4/21 5/4 7/19 7/20 7/21 8/3 8/4 8/9 8/11 8/18 8/23 8/25 8/29 9/6 9/7	a b c d e f g h j k l m p q r s	163 111 118 137 132 180 152 154 45 101 111 33 108 144 28 19 163	15.2 7.9 14.1 9.5 12.1 15.0 13.3 16.1 3.1 9.2 10.1 0.0 9.5 10.1 1.8 2.5 14.3
Totals	t. Alum. Skiff:		1899	163.8
21xcaeu 1				
XIV XIV XIV XIV Toputls	9/14 9/15 9/22 9/27	a b c d	11 63 109 <u>54</u> 237	0.5 3.1 8.4 3.2 15.2
	Launch No. 102 Skiff No. 749 Sixteen ft. Alum. Grand Totals	skiff	1416 1899 237 3552	221.1 163.8 15.2 400.1

Area: 14.36 square statute miles

FATHOMETER CORRECTIONS SHEET CO-1255

Fathometer No. 114-S - Launch No. 102:

Scale	Range	Correction
A	0 - 50	0.0
A	30.5 - 40	+0.2
A	40.5 - 50	+0.4
A	50 _• 5 - 60	+0.6
B	37 . 0 - 44	+2.0
В	44.5 - 55	+2.2
В	55 .5 - 72	42.0
В	72.5 - 7 5	+2.2
В	75.5 - 77	+2.4
В	77.5 - 79	+2.6
В	79.5 - on	+2.8
C	68.0 - 72	+6.0
C	72.5 - 76	+5.8
C	76.5 - 80	+5.6
C	80.5 - 84	+5.4
C	84.5 - 88	+ 5.2
C	88 . 5 - 92	+ 5.0
C	92.5 - 96	+4. 8
C	96.5 - 100	+4.6
C	100.5 - 104	+4.4
C	104.5 - 108	+4.2
C	108.5 - 112	+4.0
C	112.5 - 116	+3.8
C	116.5 - 120	+3.6

Fathometer No. 118-S - Launch 102:

A	0 - 7	0.00
A	7.5 - 26	+0.2
A	26.5 - 35	+0.4
A	35.5 - 40	+0.6
A	40.5 - 45	+0.8
A	45.5 - 48	+1.0
A	48.5 - 50	+1.2
B	40.0 - 44	+1.0
В	44.5 - 58	+1.2
В	58 _• 5 - 60	+1.0

Fathometer No. 156 - SPX - Launch No. 102:

A	0 - 7	+0.4
A	7.5 - 12	+0.6
A	12.5 - 36	+0.8

Fathometer No. 114-S - Skiff No. 749:

A	0 - 14	+0.2
A	14.5 - 19	0.0
A	19.5 - 25	-0.2
A	25.5 - 40	-0.4

NORFOLK PROCESSING OFFICE ADDENDUM To Accompany

HYDROGRAPHIC SURVEY H-8277 (Co-1255)

GENERAL

This appears to be an excellent basic survey and no unusual conditions were encountered during the smooth plot.

The bottom in the immediate vicinity of Smith Point L.H. is made up of almost continuous sandwaves. The smooth plotter drafted the depth curves while penciling the soundings and many of the greater depths were omitted between the shoal curves to avoid congestion on the sheet. Some shoaling has occurred in the area.

Several new daybeacons have been constructed since this survey was made. Also, the positions of some of the original beacons have been changed.

Review p 7c.

SHORELINE

Shoreline changes, indicated on the boat sheet at Lat. 37-53.3' Long. 76-17.58' and at Lat. 37-53.5' Long. 76-17.88', were found to be un-necessary. Some positions of topo stations were changed when the manuscripts were revised. The plot on the new signal locations agreem with shoreline shown on the manuscript.

CHART COMPARISONS

Lat. 37-53.72 Long. 76-13.60 The six foot sounding on line 24 to 25f is not charted. The chart does show two 6' soundings South of this point which were not found. Charted from Boat Sheet ings South of this point which were not found. See P 7A.

is now charted

The area along the shoreline South of Smith Pt. runs generally shoaler than charted. The 3' sounding charted at Lat. 37-52.39' Long. 76-14.20 was not found. Sandwaves in this area run parallel with the shoreline. (See positions 143-144f) 3' is from H-252 (1849-50) See Review p6.

Lat. 37-52.77' Long. 76-13.29' Smooth sheet shows 12 to 14 feet in charted 18' area. Chart has been corrected.

Lat. 37-53.31' Long. 76-13.72' The 3' sounding charted here was not found. This is a 3.7' sounding from C.of. E. Blueprint 14522 of 1917. Present hydro is adequate to discredit the prior sounding in this changeable area;

(continued)

Lat. 37-53.09' Long. 76-13.00' The 6' sounding charted here was not found. From H-252 (1849-50) Present hydro is adequate to discredit this prior sounding.

The smooth sheet soundings do not adequately delineate channels at the entrances to Cod and Ellyson Creeks. Rulew 36.

Norfolk, Va. 21 Jan. 1959

Respectfully submitted,

Hugh L. Proffitt Cartographer.

OFFICE OF CARTOGRAPHY

REVIEW SECTION -- NAUTICAL CHART DIVISION

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8277

FIELD NO. CO-1255

Virginia, Chesapeake Bay, Vicinity of Smith Point

SURVEYED: April - September 1955

SCALE: 1:10,000

PROJECT NO. 1287

SOUNDINGS: 808 Depth Recorder

Sounding Pole

Hand Lead

CONTROL: Sextant fixes on shore signals

Chief of Party ----- D. A. Jones; W. N. Martin; K. S. Ulm Surveyed by ----- A. J. Ramey; D. A. Jones, W. N. Martin R. J. Black; O. C. Swindell Protracted by ----- A. G. Atwill Soundings plotted by ----- A. G. Atwill

Verified and inked by ----- H. J. Keeler Review ed by ----- D. R. Engle Inspected by ----- R. H. Carstens

DATE: 4-25-61

Description of the Area l.

The survey covers the area from Smith Point east to Smith Point Lighthouse and south to Chesapeake Beach in Chesapeake Bay, all of Little Wicomico River and the northern part of Cockrell Creek.

The character of the bottom in the bay area is generally sandy and is relatively smooth outside the 6-ft. curve, except in the vicinity of Smith Point Lighthouse where the submarine relief consists of an intricate pattern of sand waves running in an east-west direction. Inside the 6-ft. curve, numerous sand waves also exist and generally run parallel to the shoreline.

Little Wicomico River and Cockrell Creek both have deep channels with muddy bottoms. The entrance to Little Wicomico is dredged, but Cockrell Creek has a natural entrance channel.

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2. Control and Shoreline

The origin of the control is given in the Descriptive Report.

The shoreline originates with reviewed photogrammetric surveys T-11049 and T-11051 of 1952-54. Several minor shoreline revisions made from hydrographic information are shown in red on the survey.

3. Hydrography

Sounding line crossings are in good agreement.

The usual depth curves are adequately delineated. The 3-ft. curve was added to delineate the shoals and the river channels.

The development of bottom configuration and least depths is satisfactory except that the entrance to Ellyson Creek is not adequately developed. The boat sheet shows the 6-ft. curves running between the shoals extending out from either side of the creek between stations HAT and IVY. However, no soundings are recorded to substantiate this channel. Therefore it could not be shown on the smooth sheet.

4. Condition of Survey

The field plotting, records and reports were adequate and conform to the requirements of the Hydrographic Manual.

5. Junctions

Adequate junctions were effected with H-8278 (1955) on the north and H-8190 (1954-55) on the southwest. Junctions with H-8289 (1955) and H-8435 (1956) on the east and southeast, and H-8283 (1955-56) on the northeast will be considered in the review of those surveys.

6. Comparison with Prior Surveys

These prior surveys cover the area of the present survey except in Little Wicomico River where no prior surveys had been made by this bureau. A comparison of the prior and present surveys reveals variable changes in the bottom. The shoal, running from Smith Point out toward Smith Point Lighthouse, is 1 to 5 feet shoaler on the present survey and extends about 50 meters farther offshore than on the prior surveys. South of Smith Point shoal the present survey reveals that the inshore area is generally 1 to 3 feet shoaler,

H-8277 - 3

while the offshore area is 1 to 4 feet deeper than the prior surveys. Only minor differences in depth are revealed in Cockrell Creek.

Attention is called to the following:

- (a) At.Lat. 37°52.7', Long. 76°12.7' an 8-foot sounding charted from H-252 (1849-50) falls in present depths of 21 feet. This sounding is from a line which is considered to be out of position. The development on the present survey is adequate to discredit this 8-ft. sounding and other sounding on this line. The 8 should be removed from the chart.
- (b) Several soundings on H-252 (1849-50) were found to differ with present depths by as much as 5 fathoms. Development on the present survey is adequate to discredit these prior soundings which are probably faulty or out of position. For example, at Lat. 37°53.35', Long. 76°10.10', a prior 72-ft. sounding falls in present depths of about 100 feet and is prabably out of position.

The more thorough coverage of the present survey reveals many features not shown on the sparsely developed prior surveys. The present survey is adequate to supersede the the prior surveys in the common areas.

7. Comparison with Chart 557 (Latest print date 11-7-60)
534 (Latest print date 8-15-60)
1223 (Latest print date 3-20-61)

A. Hydrography

Charted hydrography originates principally with the previously discussed surveys supplemented by partial application of the present survey from copies of the boat sheet. Minor revisions in depth and position were made during smooth plotting and verification, and survey depths may vary as much as one foot from boat sheet depths. In areas where the present survey has not been applied to the charts, differences in depth of 1 to 5 feet are due to bottom changes, and differences of 16 to 22 feet are due to erroneous soundings applied from prior surveys. These differences are discussed in par. 6 above.

The <u>submerged wreck</u> charted at Lat. 37°53.33', Long. 76°15.08' from Corps of Engineers blueprint 30834 (1936-37) was not found by the hydrographer during his investigation of the area on d-day (par. 3, L-M 1). However, a 3-ft. pole sounding in general depths of 5 feet was obtained on another sounding line, 96-97 s-day, about 40 meters NW of the charted position of the wreck and may be wreckage. It is therefore recommended that the submerged wreck be retained on the charts.

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With the above exception the present survey is adequate to supersede the charted information.

В. Controlling Depths

The charted controlling depth of the entrance channel to Little Wicomico River is based on date furnished by the U. S. Corps of Engineers subsequent to the date of the present survey and supersedes the present survey information. The charted controlling depth of Little Wicomico River inner channel was applied from the present survey and is in adequate agreement with the present smooth sheet.

C. Aids to Navigation

The aids to navigation located on the present survey are in substantial agreement with the charts except the daybeacons number 7 to 15 in the upper part of Little Wicomico River. Beacon number 8 was moved and beacons no. 7, 9, 11, 12, 14 and 15 were established subsequent to the date of the present survey.

The aids to navigation as presently charted adequately mark the features intended.

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work

This is a good basic survey. It would be desirable. however, to confirm the absence of a channel through the bar at the entrance to Ellyson Creek, Lat. 37° 53.68', Long. 76°15.92' by additional sounding lines in this area.

autical Chart Division

Projects Officer, Operations Division Examined and Approved:

Assistant Director,

Office of Cartography

10/26/61 Assistant Director.

Office of Oceanography

FORM 197 (3-16-55) GEOGRAPHIC NAMES
Survey No. H-8277

	6	Sup. Of	40.\QL	7. Mr. 410	rinord"	or lock	0.9/6	Lond .	S.S.	
Name on Survey	/ A	/ B	<u>/ c</u>	<u> </u>	E	/ F	<u> </u>	<u> </u>	/ K	_
Virginia			(Title	<u> </u>					BGN	1 -
Chesapeake Bay			11						11	2 -
Great Wicomico River									11	3
Chesapeake Beach										4
Cockrell Creek									BGN	5 '
Reedville										6 ~
Smith Point										7
Little Wicomico Rive	r									8 '
Rock Hole			-							9 .
Tabs Creek										10
Sharps Creek										11 -
Sunnybank			(Tid	e stat	ion)					12
Bridge Creek						-				13
Back Creek										14
Cod Creek										15
Spring Cove										16
Ellyson Creek										17
			Name	s appr	oved 2	-2059. best p	See	charts		18
Tede station off sh	eet:	<u> </u>	name		, 101		20			19
Great Wicomico Rive	Ligh	thouse								20
										21
										22
										23
The state of the s										24
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Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. .827.7...

Records accompanying survey:	nooth shee	ots;
boat sheets .l; sounding vols. A; w (2 parts) Descriptive Reports .l; graphic reco		_
special reports, etc	• • • • • • • •	• • • • • • • • •
	• • • • • • • •	• • • • • • • • •
The following statistics will be submitted wi rapher's report on the sheet:	th the ca	rtog-
Number of positions on sheet	3552	
Number of positions checked	•	23
Number of positions revised	•	7
Number of soundings revised (refers to depth only)	•	.42
Number of soundings erroneously spaced	•	.0
Number of signals erroneously plotted or transferred	-	.8
Topographic details	Time .	.4
Junctions	Time .	.!9
Verification of soundings from graphic record	Time .	14.
Special adjustments	Time .	4
Verification by Harold Leeles. Total time		
Reviewed by . A. K. Engle Time	<i>99.</i> Da	ate Apr. 26. 1961

U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens

26 March 1959

Plane of reference approved in 14 volumes of sounding records for

HYDROGRAPHIC SHEET 8277

Locality Vicinity of Smith Point, Chesapeake Bay

K. S. Ulm in 1955 Chief of Party:

Plane of reference is mean low water reading

1.9ft. on tide staff at Great Wicomico River Lt. House

14.2ft. below B.M. 1 (1898)

2.4 ft. on tide staff at Sunnybank 3.0 ft. below B.M. 1 (1955)

Height of mean high water above plane of reference is as follows:

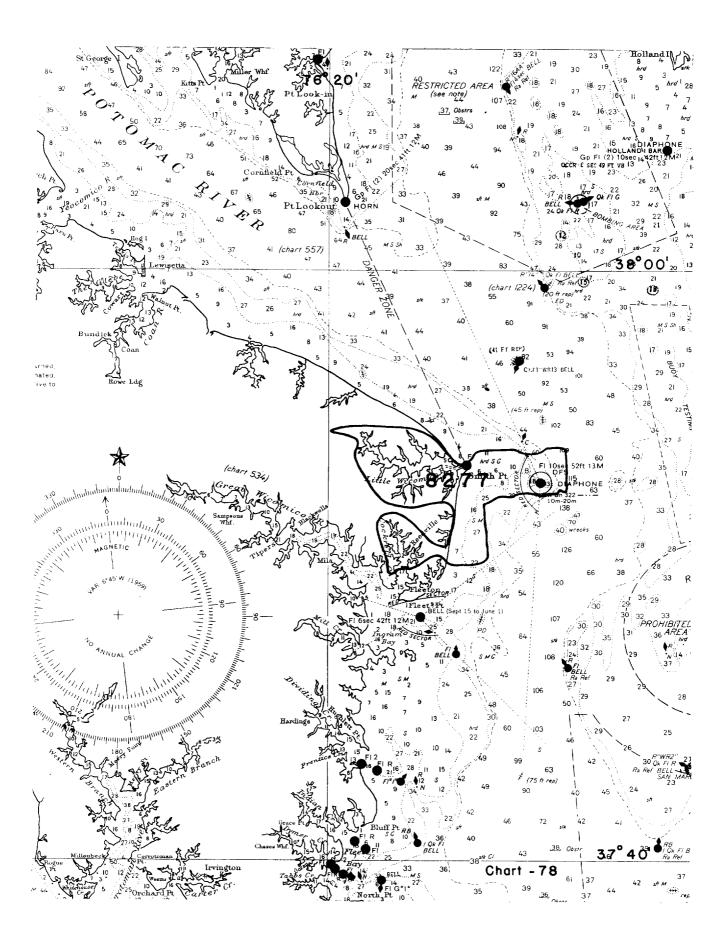
Great Wicomico River Lt. Ho. = 1.1 feet Sunnybank: = 0.8 feet

Condition of records satisfactory except as noted below:

Chief, Tides Branch

Mlliam

Comm-DC 34330



NAUTICAL CHARTS BRANCH

SURVEY NO. <u>H</u>**-**8277

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
557	4/4/59	Haton	Part Before Asser Verification and Review
/223	4/21/19	Straton VAK	_
1224	4/4/59	J. Heaton	Part Before After Verification and Review
78	6/3459	Spevalher	Before The Verification and Review Examined— not applied
2-16-60	101-1	a.J. Hoffman	Portially Before After Verification and Review, also applied changes to Ch. 557.
5/2/60	534	Helmer	Before Werification and Review Partial of critical Slas and curves
5/26/61	557	J.H. EATON	Comp App'D. Bases After Verification and Review before Imp.
8/11/61	/223	J. HEaton	Comp app'd. Then CRt 557 Boson: After Verification and Review
8-28-61	1224	R. E. Elkins	Betwee After Verification and Review Partly Applied Examined review- no revisions
8-29-61	1224	R.E.Elkins	Beams After Verification and Review Fully official of the Chart 1223
9/29/67	78	n & Mail	Tully cyps ofter V+R where CAT 1223
L			

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.