8190

8190

Diag. Cht. No. 78-3.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. CO-1654 Office No. H-8190

LOCALITY

State Virginia

General locality Chesapeake Bay

Locality Great Wicomico River

19# 54-55

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE September 12, 1959

B-1870-1 (I)

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-8190

Field No. CO-1654

StateVIRGINIA
General locality CHESA PEAKE BAY
Locality GREAT WICOMICO RIVER ENTRANCE
Scale 1:10,000 Date of survey 12 Oct. 1951, to 20 July 1955
Instructions dated 5 February 1953, 25 February 1954 and 14 January 1955
Vessel LAUNCH NO. 102, LAUNCH NO. 174 AND SKIFF NO. 749
Chief of party Lcdr. Don. A. Jones, Cdr. William N. Martin and Cdr. Kenneth S. Wil
Surveyed by Lieut. (j.g.) Albert J. Ramey, Robert J. Black
Soundings taken by fathometer, graphic recorder, hand lead, wire and sounding pole
Fathograms scaled byPersonnel_of_Ship_COWIE
Fathograms checked by Personnel of Ship COWIE
Protracted byR.D. Lynn
Soundings penciled byR.D. Lynn
Soundings in fathoms feet at MLW MLLW AND ARE TRUE DEPTHS
REMARKS:

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SURVEY H

FIELD NO. 00-1654

CHESAPEAKE BAY

GREAT WICOMICO RIVER

US CGS SHIP COWIE

SCALE 1:10,000

Lcdr. D. A. Jones Cdr. W. N. Martin Cdr. K. 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:

The area ∞ vered by this survey includes the entrance to the Great Wicomico River and adjacent tributaries. Junctions with contemporary, surveys are as follows: ∞ -1551 to the south, ∞ -1155 to the west, ∞ -1255 to the north, and ∞ -2155 to the east.

The survey began on 12 October 1954 and concluded on 20 July 1955.

C. Vessel and Equipment:

Launch No. 102, equipped with 808 type fathometers nos. 114-5, 118-5, 120-S, and 156-SPX, was used in general depths of 5 feet and upward. Skiff 749, equipped with 808 type fathometers 67 and 114-S, and sounding pole, was used in shoal areas along the shore, creeks and inlets. Launch No. 174 (HYDROJET), equipped with 808 type fathometers 114-S and 118-S, was used on an experimental basis in general depths of 2 feet and upward.

The two launches and skiff operated from the Ship COWIE.

D. Tides and Current Stations:

Portable automatic tide gages were maintained at the Great Wicomico River Light House and Glebe Point, Great Wicomico River, throughout the entire period of this survey. 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	Stations:
---------------	-----------

Hydrographic Name

Cockrell Point Light, 1938	Poin
Cockrell's Creek Light, 1938	Reek
Cove (VFC), 1931	Cove
Cranes Creek Channel Daybeacon No. 2, 1955	T_{WO}
Cranes Creek Channel Daybeacon No. 4, 1955	Four
Fleet Point Light 2, 1955	Flee
Great Wicomico River Light House, 1898	Wico
Haynie Point Light, 1938	Hay
Haynie (VFC), 1931	Nie
Reedville Morris Factory Stack, 1938	Stak
Reedville Municipal Water Tank, 1955	Aft
Sandy Point Light, 1938	A ndy

Topographic Stations: V - Manuscript No. T-11051/52) See N. P.O. Signal List.

Abe Act Age Aha Alp Amp Ann Ant Bar Bat Bed Bib * These	Bob Box Bus But Cam Can Cap Car Caw Coo Cow Cud	Cut Cry *Dim Dim Din Dip Dix *Doc Pec Don Dot Dud Due *Egg	Egg Eg° Elf Elm End Era Eva Far Few Fin Fix For Gee sheet.	Get Gig Gin *Guy Guy Hoe Hop Hub Ion Jaw Jay Jug	Kim Lad Lax Mac Mar Mas Mid Ned Ned New Me	Pad Pal Pep Pet Pin Pit Pix Put Ram Red Rot Rum	Sag Sad Sal Sam She Sic Tan *Tap Tap Tap Thy Van Vex Vie Wad *Wag Wag Zig
---	---	--	--	--	--	--	---

Topographic Stations: - Manuscript No. T-11053 (32)

Aim Bag Big Cow Con I	Dog Dun Eat Few Fed Fig Fox Gag	Gal Glo Got Hat Hex His Ice	Irk Ivy Joe Joy Kay Kid Kim Kiw	Log Low Mug Mum Nap New Nod	Obi Orb Pai Pat Quo Rat Rev	Rue Sam Sap Sex Ski Tax Tox	Ula Vet Vim War Wax Yet
-----------------------	---	---	---	---	---	-----------------------------	--

Signals located by sextant:

Bea Pil

G. Shoreline and Topography:

The shoreline on the boat sheet was transferred from aerial photograph manuscripts T-11051 and T-11053. 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 corrections as shown in red ink on the boat sheet:

l. Latitude	37° 46.951	Longitude	760 16.501
2.	37° 47.65°	_	760 18.701
3•	37° 47•75'		760 18.601
4.	37° 48•75'		760 16.951
5•	370 49.621		760 15.731
6.	37° 49•90°		76° 15•351

H. Soundings:

Soundings were taken with the 808 type fathometer, hand lead and sounding pole. Depths measured by 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 adequately drawn at the junctions.

K. Crosslines:

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

L. - M. Comparison with Prior Surveys and Charts:

Skiff No. 749:

l. Item 7, (Preliminary Review), lists a wreck in Latitude 37° 22.25', Longitude 76° 17.21' which was charted in 1925 from an undetermined source. Prior to that time, a wreck was charted from H-3012 (1909), 300 meters / southwestward. A buoy was planted, pos. 11:21, and a thorough search was conducted as described in the sounding volume. According to Mr. A. L. Saunders, there had been three boats, one a schooner, put on the shoal, and that all of them had disappeared in the sand many years ago. It is therefore recommended that this wreck be removed from the chart.

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

- 2. At latitude 37° 49.39', longitude 76° 16.39' is a submerged wreck, pos. 82a.
- 3. The charted ruins at latitude 37° 49.35', longitude 76° 16.58' is a submerged large wreck, pos. 46b.
- 4. The charted ruins at latitude 37° 50.25', longitude 76° 14.95' are iron stakes and submerged cement tile groins, pos. 75p.
- 5. The entrance to Taskmers Creek at latitude 37° 49.9', longitude 76° 15.35' no longer exists, having been closed by sand.
- 6. The shoreline in the vicinity of latitude 37° 49.6, longitude from 15.5 is foul with piles and cement tile groins.
- 7. The entrance to the small gut, latitude 37° 49.6°, longitude 10/3/57
- 8, At latitude 37° 48.16!, longitude 76° 19.29! is a pile, 10 inches in diameter and bare 7 feet (Hydrographic Signal Pil), pos. 16q.
- 9. The shoreline in the vicinity of latitude 37° 49.05', longitude 76° 16.95' is foul with partly submerged piles.
- 10. The entrance to Shell Creek, latitude 37° 49.6, longitude 76° 19.25' is blocked by a shoal bar, pos. 40s.
- 11. At latitude 37° 49.08', longitude 76° 16.95' are two mooring piles very chise which bare 6 feet, positions 12 & 13u.
- 12. At latitude 37° 49.02', longitude 76° 16.94' is the ruins of a fish house, which, according to Mr. I. R. McFarland, existed approximately 40 years ago.
- 13. At latitude 37° 48.56', longitude 76° 16.95' is the remains of a 40 foot yacht which wrecked on the ice-breaker rocks east of the Great Wicomico River Lighthouse, 18u.
- 14. At latitude 37° 48.96', longitude 76° 16.10', is a power pole which marks the inshore end of an underwater cable extentend to the Great Wicomico River Lighthouse.
- 15. Latitude 37° 48.18', longitude 76° 18.52' marks the entrance to Towles Creek which is blocked by a shoal bar.
- 16. 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.

Chock

Launch No. 102:

1. A comparison with Chart No. 534 (print date 2/9/53), shows good agreement between the old and new surveys.

N. Dangers and Shoals:

Skiff No. 749:

- 1. The bight in the vicinity of latitude 37° 49.8°, longitude 76° 16.7° is foul with large pices of scrap metal.
- 2. Latitude 37° 49.40', longitude 76° 16.34', marks the offshore end of a shoal bar, pos. lb.
- 3. Latitude 37° 50.09', longitude 76° 17.82', marks the offshore end of a shoal making off point, pos. 43d.

Launch No. 102:

1. The pile of rocks, 25 meters east of the Great Wicomico River Lighthouse, is considered a danger to navigation, and is recommended for charting. These rocks, which bare about 1 feet at MLW, are submerged at high tide. The danger of these rocks is evidenced by the fact that a hofot yacht was wrecked on them in April 1955 (See L-M, item 13).

O. Coast Pilot Information:

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

P. Aids to Navigation: See list by processing Office.

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

Floating aids to Navigation, within the limits of this survey are as follows:

- 1. Dameron Marsh Shoal Buoy "3", latitude 37° 47.80, longitude 76° 15.54, in 24 feet of water.
- 2. Mill Creek Entrance Buoy "l", latitude 37° 47.57', longitude. 76° 18.18', in 5-1/2 feet of water.
- 3. Fleet Point Buoy "2", latitude 37° 48.461, longitude 76° 17.351; in 19 feet of water.
- 4. Mississippi River Num Buoy, latitude 37° 48.9°, longitude 76° 17.12' in 11 feet of water (private maintained).
- 5. Mississippi River Num Buoy, latitude 37° 49.02', longitude 76° 17.02', in 6 feet of water (private maintained).

Q. Landmarks for Charts:

Form 567, Landmarks for Charts is being prepared as a separate report.

No new landmarks are recommended for the area covered by this survey.

R. Geographic Names:

Geographic names, as shown on the charts of this area, are adequate, $\stackrel{\checkmark}{}$ and no additional names are recommended.

U. - Y. Miscellaneous:

Fathometer corrections were obtained by averaging all bar checks according to the fathometers and survey vessel used. An abstract of these corrections is included as part of this report.

Z. Tabulation of Applicable Data:

A list of signlas is attached to Vo. No. 1 of the sounding records.

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

Respectfully submitted,

Albert J. Ramey

Lieut. (j.g.), USC&GS

Approved and forwarded:

Kenneth S. Ulm Commander, USC&GS

TIDE NOTE

A portable automatic tide gage at the Great Wicomico River Lighthouse, ~ latitude 37° 48.25°, longitude 76° 16.08°, was used for obtaining tide reducers for the entire survey. No time or heights corrections were applied to the observed tides. The hourly heights were scaled from the marigrams and the tide curves were plotted by personnel of the Ship COWIE.

Statistics:	Launch No. 1	.02 /		
Vol. No.	Date	Day Letter	No. of Pos.	Stat. Miles
I I I I I I I I I I I I I I I I I I I	10/12/54 10/13/55 10/14/54 10/14/55 4/18 4/18 4/18 4/28 5/25 6/2 6/2 6/15 6/15 6/15 6/16 6/20 6/21 6/22 6/23 6/27 6/30 7/14	abcdeffghjjks mmnpgrstuv	34 30 25 76 70 115 13 229 102 151 30 242 91 167 79 178 64 170 89 116 18 27 79	5.3 4.7 3.7 11.8 10.7 17.4 1.9 31.3 14.3 20.2 3.9 28.3 11.3 21.4 11.0 25.1 9.5 23.6 13.7 17.3 3.3 4.4 9.3 303.4
Statistics:	Skiff No. 71	19: <i>V</i>		
XI XII XIII XIII XIII XIIII XIIII XIII XIV XV XV XV XV XV XVIII XVIIII XVIIII XVIIII Totals	4/19/55 4/20 5/10 5/10 5/12 5/17 6/28 6/28 6/29 6/30 7/6 7/11 7/12 7/13 7/13 7/19 7/20	a b c c d e f g h j k l m n p p q r s s t u v	133 89 87 30 79 167 83 46 104 17 150 142 77 147 38 137 74 132 142 17 56 55 4	12.0 7.2 4.0 3.7 5.8 19.8 8.3 5.3 11.5 1.9 18.9 14.4 6.0 12.4 4.9 15.8 7.0 13.2 11.4 0.3 4.9 3.0 0.1 191.8

Statistics:	Launch No.	174:		
Vol. No.	Date	Day Letter	No. of Pos.	Stat. Miles
XIX XIX Totals	6/28 6/28	a b	27 135 162	3•2 16•1 19•3
Launch No. 102 Skiff No. 749 Launch No. 174 Grand Totals		-	2,195 2,006 162 4,363	303.4 191.8 19.3 514.5

Area: 15.97 Square Statute Miles.

FATHOMETER CORRECTIONS

Launch No.	102 - Fath	ometer No. 114		Corrections erwise marked		less/
A Scale						ometer 118-S
0 30•5	30 40	0.0 0.2		A Scale		
40•5 50•5	50 60	0•9 0•1		0 7•5 26•5	7 26 35	0.0 0.2 0.4
B Scale				35•5 40•5	46 45	0•6 0•8
37 44•5 55•5	<u>դդ</u> 55 72	2.0 2.2 2.0		45.5 48.5	48 50	1.0 1.2
55.5 72.5 75.5	75 7 7	2•2 2•4		B Scale		
77.5 79.5	79 Rest	2.6 2.8		* 40	141	1.0
C Scale /				Launch No.	. 174 -,Fath	ometer 118-S
68	72	6.0		A Scale		
72•5 76•5	76 80	5•8 5•6 5•4		0 6	5∙5 7∘5	0•2 0•0
80•5 84•5	814 88	5•4 5•2		8	15	-0.2
88.5	92 96	5•0 4•8		Launch No.	. 102 - Fath	ometer 120-S
	100 104	և∙ ն և•և		A Scale		
104.5	108 112	4•2 4•0		0	40	0.0
112.5	116 120	3•8 3•6		Launch No.	. 102 - Fath	ometer 156-SPX
Skiff No. 7	49 - Fatl	nometer No. 114	₊ - S	A Scale		
A Scale				0 7•5 12• 5	7 12 36	0•4 0•6 0•8
14.5	14 19	0•2 0•0		Skiff No.	749 - Fatho	meter 67
19•5 25•5	25 40	-0•2 -0•4		A Scale		
Launch No.	174 - Fat	thometer No. 11	Ս ₁ –Տ	0	12	0•2
0	15	0.0		12.5	35	0.0
* Continued	at bottom	of page		*Launch No. B Scale	102 - Fath	ometer 118-S
				44.5 58.5	58 60	1.2 1.0

PROCESSING OFFICE LIST OF SIGNALS

H-8190

TRIANGULATION STATIONS

AFT	REEDVILLE MUNICIPAL WATER TANK, 1955								
ANDY	SANDY POINT LIGHT, 1938								
COVE	COVE	(V.F.C	.), 193	1 -					
FLEE	भुसुराच	T POINT	LIGHT	2. 1955	1				
FOUR	CRAN	ES CREE	K CHANN	EL DAYB	EACON, 4	. 1955	north		
HAY	UA VN'	TE POIN	T TARP	. 1038∕	•				
NIE	HΔVN	TE (V.F	.c.), 1	931-38					
POIN	COCK	RELL'S	POINT L	TGHT. 1	938				
REEK	COCK	RELL'S	CREEK L	TGHT. 1	938		•		
STAK	מנטטט	UTILE	MOBRIS	TA CTORY	STACK,	1938			
TWO	CBVM	rs cere	K CHANN	ET. DAYE	EACON 2	. 1955~			
WICO	CDEV	ED VITACIA	TAO DIN	TO F U	, 1898-	1038			
		H. 1944		Eur Delle	, 1090-	1900			
MARS	MARO	ח, בדיקה	-52						
MODOGE	ATUTA	STATION	q		SOURCE '	P_11051	(1952)		
TOPOGR	AFRIC	STATION	2		DOULTOE	1-11071	(1)		
Abe	Act	Age	Aha.	Alp	Amp	Ann	Ant	Bar	Bat
Bed	Bib	Bob	Box	Bus	But	Cam	Can	Cap	Car
Caw	Coo	Cow	Cud	Cut	Cry	Dim	Din	Dip	Dix
Doc	Don	Dot	Dud	Due	Egg	Ego	Elf	Elm	End
Era.	E v a	Far	Few	Fin	Fix	For	Gay	Gee	Get
Gig	Gin	Guy	Hoe	Нор	Hub	Ion	Jaw	Jay	Jug
Kin	Lad	Lax	Lee	Mac	Mar	Mas	Mid	Ned	Net
Nip	011	Owl	Pad	Pal	Pep	Pet	Pin	Pit	Pix
		Red	Rot	Rum	Sag	Sal	Sam	Set	She
Put	Ram				_	Vex	Vie	Wac	
Sic.	Tan	Tap	Top	Thy	Van	V OX	ATA	Wag	Wad
Wag	Zig								
					COLLOGIA	ጠ ነገለርማ	(1)		
				•	SOURCE	エーエエのシン	(1952)		
A	Aim	Po e	Big	Con	Соу	Day	Dog -	Dun	Eat
Ace		Bag		Gal	Glo	•			
Fed	Fig	Fox	Gag			Got	Hat	Hex	His
Ice	Irk	Ivy	Joe	Joy	Kay	Kid	Kim	Log	Low
Mug	Mum	Nap	New	Nod	Obi	Orb	Pat	Poi	Quo
Rat	Rev	Rue	Sap	Sex	Sk 1	Tax	Tox	Try	Ula
Vet	Vim	War	Wax	Yet					

HYDROGRAPHIC STATIONS U

Bea Vol. 16, Pg. 43 Pil Vol. 16, Pg. 46

PROCESSING OFFICE LIST OF FLOATING AIDS TO NAVIGATION

BUOY	LATITUDE	LONGITUDE	DEPTH	POS. NO.	DATE
Dameron Marsh Shoal Buoy 3	37-47.8	76-15.5	24	170n	6/16/55 /
Mill Creek Entr. Buoy 1	37-47.5	76-18.1	5	lb	6/28/55 /
Fleet Point Buoy 2	37-48.4	76-17-3	19	lm	6/15/55
PRIVA	TELY MAINT	AINED BUOYS	<u>.</u>		
Mississippi Nun Buoy	37-48.9	76-17.1	11	17u	7/19/55 ~
11 11 11	37-49.0	76-17.0	6	16u	7/19/55 ~

PROCESSING OFFICE ADDENDUM To Accompany

HYDROGRAPHIC SURVEY H-8190 (Field No. Co-1654)

GENERAL

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

SIGNAL NAMES

The hydrographic names of fourteen topographic signals were changed to avoid duplications on the smooth sheet

SHORELINE CHANGES

This Office was unable to determine the exact position of the high-water-line changes in the area N.W. of station Set.

Lat. 37-47.4 and Long. 76-19.1 -- Hydrographic lines indicate shoreline changes in this area. Reference to air-photos will probably be helpful in clarifying both instances.

Satisfactory adjustment made by verifier.

Norfolk, Va. 9 Sept. 1957

Respectfully submitted,

Hugh L. Proffitt

	GEOGRAPHIC NAMES V Survey No. 8190	roit.	Deign's suria	D D CO. Walker	e de la constante de la consta	Dr. des Medes	O. Cide of	A STO MENOUS	2. Signal	* /
	Name on Survey A	Or B	ZO OT	D V Gro	E	51.00 P	° G	H). _{2.}	
	Virginia		(tit	,e)					BGN	1.
	Chesupeake Bay		†!				·		7.7	2
	Great Wicomico River								17	3
	Ingram Bay									4
	Dameron Marsh								BGN	5
`	Mil Ceek									6
	Horveys Greek							.,		7
	Toules Creek		(see	mege /)					8
	Granes Greek								EGN	9
	Bailey Frong									10
	Sandy Point		2.							11
	Shell Coek		(ser	rege	4)					12
	Reason Creek									13
	Cockrell Creek								BGN	14
	Fleet Paint			•					11	15
	Tackmers Greek									16
			Neme	s appr	oved	-27-57				17
	Great Wicomico River Light			(t:	de sta	tion)	F .	Tec		18
	Glebe P int			(t:	de sta	tion :	pstres	m from	.	19
				tl	is she	et)				20
				rt 534					umes	21
			r addi	tional	names	if de	bired.			22
						,				23
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										25
										26
	-									27
					1		}	1]	M 234

U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens:

23 September 1957

Plane of reference approved in 19 volumes of sounding records for

HYDROGRAPHIC SHEET 8190

Locality Chesapeake Bay, Virginia

Chief of Party: J. C. Bull w. N. Martin in 1954-55
Plane of reference is mean low water, reading

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

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

Height of mean high water above plane of reference is 1.1 feet.

Condition of records satisfactory except as noted below:

Chief, Tides Branch

Comm-DC 34330

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ..8190..

Records accompanying survey:

Boat sheets .1; sounding vols; wire drag vols;
bomb vols; graphic recorder rolls .13-Envelopes
special reports, etc1.5800000h.sheet.and.1-Descriptive.report.

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

Number of positions on sheet		4363.
Number of positions checked		.3.8!
Number of positions revised		3
Number of soundings revised (refers to depth only)		8
Number of soundings erroneously spaced		0
Number of signals erroneously plotted or transferred		<i>.</i>
Topographic details	Time	
Junctions	Time	<i>o</i>
Verification of soundings from graphic record	Time	./2

Verification by . Gary. Ater..... Total time 322. Date . 1/27/59

Reviewed by.... Dete 30 SAN 1959

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

Registry No. 8190

Field No. CO-1654

Virginia, Chesapeake Bay, Great Wicomico River Entrance

Surveyed: Oct. 1954 - July 1955

Scale 1:10,000

Project No. CS-1287

Soundings:

808 Depth Recorder Hand lead and pole

Control: Sextant fixes on

shore signals

Chief of Party ----- D. A. Jones, W. N. Martin and K. S. Ulm Surveyed by ----- A. J. Ramey and R. J. Black Protracted by ---- R. D. Lynn Sounding plotted by --- R. D. Lynn

Verified and inked by -- G. Ater
Reviewed by ------ L. S. Straw
Inspected by ----- R. H. Carstens

Date: 30 Sept. 1959

1. Shoreline and Control

The shoreline originates with reviewed air-photographic surveys T-11051 (1952-54) and T-11053 (1952-54) supplemented by corrections shown in red made by the hydrographic party.

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

Sounding Line Crossings 2.

The depths at sounding line crossings are in good agreement.

Depth Curves and Bottom Characteristics 3.

The usual depth curves supplemented by the 3 ft. curve were adequately delineated.

The present survey covers essentially the entrance of the Great Wicomico River into Chesapeake Bay including several small tributary creeks. In many areas, the deeper natural channels rise abruptly to shoal flats extending off from shore.

H-8190 - 3

Condition of Survey

- The sounding records and Descriptive Report are complete and comprehensive.
- b. The smooth plotting was done accurately.

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work Recommended

This is a well executed basic survey and no additional field work is recommended.

Examined and Approved:

Max G. Ricketts

Chief, Nautical Chart Branch

Lorin F. Woodcock

Chief, Hydrography Branch

Samuel Chief, Division of Coastal

Surveys

Ernest B. Lewey

Chief, Division of Charts

4. Junctions with Contemporary Surveys

The junction with H-8189 (1954) on the south in the vicinity of Dameron Marsh appears to be satisfactory but will be finally considered in the addendum to the review of that survey. The junctions with the unverified surveys H-8276 (1955) on the northwest and H-8277 (1955) on the north will be considered in the reviews of those surveys. H-8280 (1955) on the east has not as yet been received from the field.

5. Comparison with Prior Surveys

H-252 (1849 - 51	1:40,000	H-1319a (1860) 1:128,000
H-1003 (1869)	1:20,000	H-1319b (1877) 1:80,000
H-1319 (1877)	1:80,000	H-2500 (1900-01) 1:60,000
	. •	H-3012 (1909) 1:20,000

Only minor differences of 1 - 2 ft. in depths are noted between the prior and present surveys. Shoreline changes because of erosion, have been substantial in exposed areas. For example, the eastern shoreline of Eull Neck between lat. 37°49' and 37°51' is from 100 to 450 meters northwest of its location in 1849 (H-252); the island in lat. 37°47.0', long. 76°16.5' shown on H-252 (1849-51) has disintegrated to form several small islands; the shoreline in the vicinity of the mouth of Towles Creek has eroded westward about 275 meters and at Cockrell Point 130 meters northward. On the other hand, Sandy Point and Bussel Point have accreted northerly 180 meters and 360 meters respectively.

It is noted that H-1319 (1877), H-1319a (1860) and H-1319b (1877) contain no hydrography done in those years but pertain to the boundary line between Maryland and Virginia.

The present survey is adequate to supersede the sparsely developed smaller scale prior surveys within the common area.

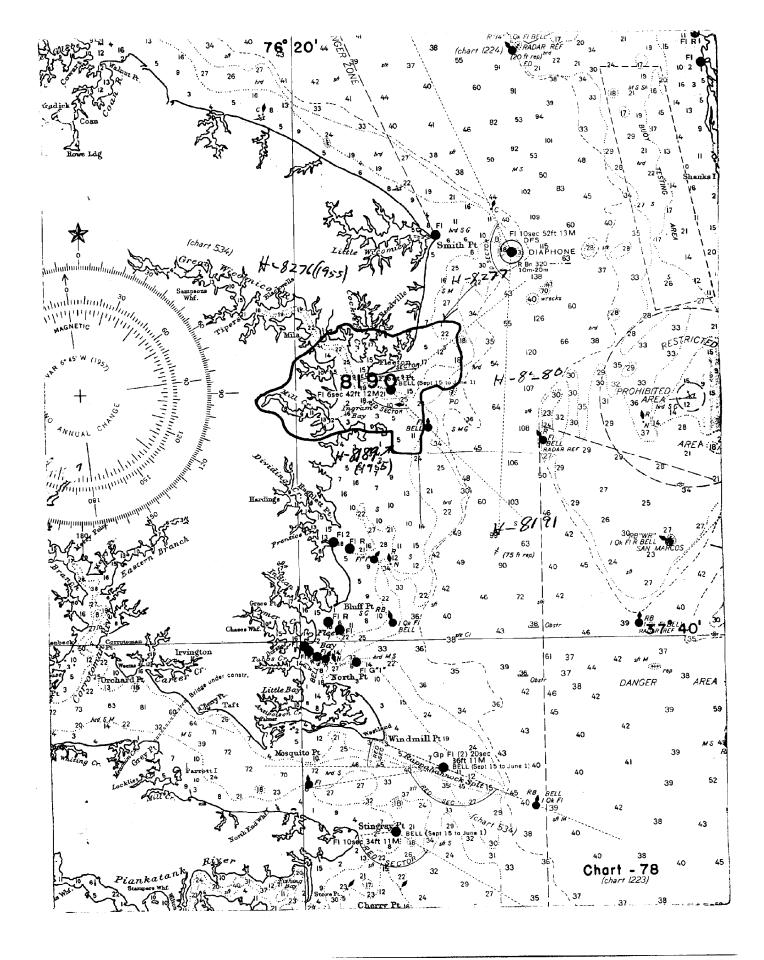
6. Comparison with Chart 534 (latest print 5-4-59)

A. Hydrography

The present survey was basically applied to the chart after preliminary verification but before review and is in agreement therewith.

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.



NAUTICAL CHARTS BRANCH

SURVEY NO. H8190

34pt 17, 1957

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
10-24-57	534	Parktrau	Before Verification and Review
10-24-57	/223	R. K. De Lander	Before Alice Verification and Review. — Thur
N-6-57	1.28	HF-Stegman	Pan, also Verification and Review thru 1223
12/11/58	534	H.C.Anderson	Full application Protein: Before Before After/Verification and Review
1/20/60	134	J.H.EATON	Examined review - Smiller Correction make Betors After Verification and Review of the styrian 1/27/6044
5.3.60	1223	RK De Lander	Before After Verification and Review Thun Chil 539
1/4/61	78	JuHEator	Batter After Verification and Review thus At 1223
			Before After Verification and Review
	•		Before After Verification and Review
			Before After Verification and Review
-			

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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.