8189

Diag. Cht. No. 78-3.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field Ne 60-1554 Office No. H-8189

LOCALITY

State Virginia

General locality Chesapeake Bay

Locality Dividing Creek and Vicinity

194 54

CHIEF OF PARTY

J. C. Bull

LIBRARY & ARCHIVES

DATE _____May 8, 1957

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-8189

Field No. Co-1554

State	VIRGINIA
General locality	CHESAPEAKE BAY and Vicinity
Locality	DIVIDING CREEK TO GREAT WISOMIGO RIVER
Scale 1:10,00	Date of survey 9 Sept. to 27 Oct. 19
Instructions dated	5 Feb. 1953 & 25 Feb. 1954
Vessel	SHIP COWIE
Chief of party	JOHN C. BULL
Surveyed by	JOHN C. BULL, ALBERT J. RAMEY & J.M. OGILVIE
Soundings taken by K a	tkanatar, graphic recorder, name katanasa Pole 9nd Lead 119 e
Fathograms scaled by	SHIP PERSONNEL
Fathograms checked b	y SHIP PERSONNEL
Protracted by	R.G. HAJEC & A. KAUPA
Soundings penciled by	A. KAUPA
Soundings in Factor	Me feet at MLW MXXX god are true depths
REMARKS: This s	urvey was smooth plotted in the Hydrographic
Section of the	ne Norfolk District Office

Atk.

DESCRIPTIVE REPORT

TO A COOMPANY

HYDROGRAPHIC SURVEY H-8189

FIELD NO. CO-1554

CHESAPEAKE BAY

DIVIDING CREEK TO GREAT WICOMICO RIVER

SHIP COWIE

SCALE 1:10,000

COMDR. J.C. BULL COMDG.

A - PROJECT:

1853 Project CS-287, Supplemental Instructions dated 5 Feb. and Supplemental Instructions dated 25 Feb. 1954.

B - SURVEY LIMITS AND DATES:

This survey is of Dividing Creek and Chesapeake Bay adjacent to it from lat. 37042.40', to lat. 37046.90', and eastward to long. 76016.50!. 4-8188(1954) H-8191(1954-55) It makes junction with 00-1454 to the south, CO-2154 to the east and CO-H-8190 (1954-55) 1654 to the north.

The survey bagan on 9 Sep. 1954 and concluded on 27 Oct. 1954.

C - VESSELS AND EQUIPMENT:

Lch. No. 102, using 808 type fathometer no. 118-S was used in genethe Shipswork. ral depths of 5 ft. and upward, to a junction with skiff no. 749, using 808 type fathometer no. 120-S and sounding pole was used in shoal areas along the shore, creeks and inlets. The launch and skiff operated from the Ship COWIE.

D - TIDE AND CURRENT STATIONS:

A portable automatic tide gage was installed and maintained at Ditchley, Dividing Creek throughout the 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:

The smooth sheet will be constructed and plotted by the Norfolk

Processing Office.

F - CONTROL STATIONS; TRIANGULATION: See N. P.O. Signal List

HUGH - Hugh 3, 1954 MARS - Marsh 1944

TOPOGRAPHIC: MANUSCRIPT NO. T-11053:

EEL	GOT	JAP	MOO	PIN	SAL	VAN	
FEW	HIS	KEY	NIL	Put	SKI	WOO	
FLY	HOE	KIM	OBI	RIO	TAR	YAK	
GEM	IDA	LIZ	OUT	RUE	U KE	ZIG	
CRIPT_N	10T <u>-11</u> 0	<u> </u>					
BOX	D ø G	GIN	JAR	ѝЕО	SHE	VIA.	200
CAR	, EMO	GUY	Jaw	ORA	STY	XIX	
COD	EON	H A R	KED	PRO	TAX	WHY	
CUT	EVA	HER	LAY	Q A K	TUB	WIG	
DIM	FAC	HUG	LEO	QUO	UNI		
DIX	FRO	ION	LUX	RAT	USE		
DU K	FUN	ITS	MOP	ROY			
	FEN FLY GEM BOX CAR COD CUT DIM DIX	FEN HIS FLY HOE GEM IDA SCRIPT NO. T-110 BOX DUG CAR EMO COD EON CUT EVA DIM FAC DIX FRO	FEN HIS KEY FLY HOE KIM GEM IDA LIZ SCRIPT NO. T-11055: BOX DUO GIN CAR EMO GUY COD EON HAR CUT EVA HER DIM FAC HUG DIX FRO ION	FEN HIS KEY NIL FLY HOE KIM OBI GEM IDA LIZ OUT SCRIPT NO. T-11055: BOX DUC GIN JAR CAR EMO GUY JAW COD EON HAR KED CUT EVA HER LAY DIM FAC HUG LEO DIX FRO ION LUX	FEN HIS KEY NIL PUT FLY HOE KIM OBI RIO GEM IDA LIZ OUT RUE SCRIPT NO. T-11055: BOX DUC GIN JAR NEO CAR EMO GUY JAW ORA COD EON HAR KED PRO CUT EVA HER LAY QAK DIM FAC HUG LEO QUO DIX FRO ION LUX RAT	FEN HIS KEY NIL PUT SKI FEN HIS KEY NIL PUT SKI FLY HOE KIM OBI RIO TAR GEM IDA LIZ OUT RUE UKE SCRIPT NO. T-11055: BOX DUC GIN JAR NEO SHE CAR EMO GUY JAW ORA STY COD EON HAR KED PRO TAX CUT EVA HER LAY QAK TUB DIM FAC HUG LEO QUO UNI DIX FRO ION LUX RAT USE	EEL GOT JAP MOO PIN SAL VAN FEN HIS KEY NIL PUT SKI WOO FLY HOE KIM OBI RIO TAR YAK GEM IDA LIZ OUT RUE UKE ZIG SCRIPT NO. T-11055: BOX DUC GIN JAR NEO SHE VIA CAR EMO GUY JAW ORA STY VIX COD EON HAR KED PRO TAX WHY CUT EVA HER LAY QAK TUB WIG DIM FAC HUG LEO QUO UNI YEO DIX FRO ION LUX RAT USE YES

G - SHORELINE AND TOPOGRAPHY:

The shoreline on the boat sheet was transferred from air-photo. manuscripts T-11053 and T-11055. of 1952

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.

lat. 37°45.57', long. 76°19.16'. lat. 37°44.25', long. 20.42'.

lat. 37°43.58', long. 76°20.10'. A

H - SOUNDINGS:

Soundings were taken with the 808 type fathometers, hand lead and sounding pole. Bar checks were used for obtaining fathometer corrections. Depths measured by fathometer, leadline and sounding pole agree satisfactorily and depth curves can be adequately drawn at the junctions.

SPECIAL NOTE:

\$\psi^{37^247.3},^{-1} \text{Rights}^{22^28.6}\$

West

The area from signal JAR continued for 600 yards was reworked (on an overlay) because a crossline showed as much as 4 ft. discrepancies. It was found that the crossline was correct and the original work has been rejected. The rework was continued in all directions until it checked with the adjoining original work. The original was in error due to the fathometer shorting out at the arm pivot and thereby giving a false return.

I - CONTROL OF HYDROGRAPHY:

Sounding lines were controlled by three-point fixes using natural objects and signals on shore. Satisfactory results were obtained from using these signals.

J - ADEQUACY OF SURVEY:

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

LXLUECO K COLCROSSLINES:

ELECTRONIC POSSION are in good agreement and comprise approximately eight

DEPARTMENT OF COMMERCE II, 5, COAST AND GEODETIC SURVEY

L-M - COMPARISON WITH PRIOR SURVEYS AND CHARTS; SKIFF NO. 749:

- 1 Item 6 (Preliminary Review) No trace of the 2 ft. sounding at lat. / 37°46.00', long. 76°16.60' was found even though close development was done in the area. It is recommended that it be removed from the chart. The 12 ft. sounding at lat. 37044.951, long. 76017.701 was / 10-12. This 12 ft. shoal extends 150 meters further to the east verified. than shown on the chart.
- 3 The creek entrance at lat. 37044.96', long. 76018.97' could not be entered and was closed off with 0.5 ft. soundings. LAUNCH 102 and SKIFF NO. 749:

A comparison with Chart 534 (print date 2/9/53) shows good agree
The first ment between the old and new surveys, maximum discrepancies being about 1 to 3 ft.

4 - The scharted 2 ft. shoal in lat. 37 46.021, long. 76 16.601 was not verified, minimum depths obtained in this vicinity being 5 ft. This area was developed with closely spaced sounding lines and since there were no shoal indications, it is recommended that this sounding be removed from the chart.

N - DANGERS AND SHOALS:

- 1 In the vicinity of lat. $37^{\circ}42.96^{\circ}$, long. $76^{\circ}19.15^{\circ}$, and lat. $37^{\circ}43.00^{\circ}$ long. 76°19.21', powerlines cross these two creeks 35 ft. overhead, (see leaffle) 2 - In the vicinity of lat. $37^{\circ}43.36^{\circ}$, long. $76^{\circ}19.50^{\circ}$, power lines cross $^{\vee}$ 35 ft. overhead, see boat sheet.
- 3 At lat. 37°43.58', long. 76°20.23' a powerline crosses 15 ft. overhead., see boat sheet.

W. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE

N - DANGERS AND SHOALS:

- 4 At lat. 37°43.72', long. 76°19.62' is a steam engine in 3 ft. of water, bare 0.5 ft. (61-d, skiff 749).
- 5 At lat. 37°43.85', long. 76°19.46' is a creosote pile in 10 ft. of water, bare 8 ft., pos. 42-d, skiff 749.
- 6 At lat. 37°43.29', long. 76°18.86' is an old boiler in 2 ft. of water NP awash at low water. pos. 50°6 (skift)
- 7 At lat. 37°44.90', long. 76°20.65' is a wreck in 2 ft. of water, bare 1 ft., pos. 13-17, skiff 749.
- 8 At lat. 37° 44.43', long. $76^{\circ}20.24$ ' is a wreck in 3 ft. of water, mast \sqrt{f} bare 25 ft., skiff 749, position 44-j.
- 9 At lat. 37° μ 3.991, long. 76° 19.301 is the offshore end of a rock v jetty, pos. 162-m, skiff 749.
- 10 At lat. 37044.021, long. 76019.331 is a pile in 13 ft. of water, v bare 6 ft.
- 11 At lat. 37° lulu. 83° , long. $76^{\circ}20$. 40° is a power line 30 ft. overhead, \sim see boat sheet.
- 12 At lat. $37^{\circ}45.05^{\circ}$, long. $76^{\circ}20.20^{\circ}$, is a power line 33 ft. overhead, see boat sheet.
- 13 At lat. 37°45.82', long. 76°19.20' is a telephone line 24 ft. overhead, see boat sheet.

0 - COAST PILOT INFORMATION:

The Coast Pilot Report was forwarded to the Washington Office on EXEMPTE VERBERS 1 Nov. 1954.

differsybH_vD0Dd22

POST-WEIGE ADDRESS.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

P - AIDS TO NAVIGATION:

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

Floating aids to navigation, within the limits of this survey are SEE N. P.O. Floating Hids

- (Black F/W)
 1 Deviding Creek Entrance Lighted Buoy "1", lat. 37042.67', long. 76°16.81! in 15 ft. of water.
- 2 Dividing Creek Spar Buoy "4", lat. 37°43.28, long. 76°18.24' in 12 ft. of water.
- 3 Dividing Creek Spar Buoy "6", lat. 37°43.68', long. 76°18.77' in 13 ft. of water.

Q - IA NDMARKS FOR CHARTS:

No landmarks are recommended for the area of this survey.

R - GEOGRAPHIC NAMES:

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

U-Y - MISCEL LANEOUS:

Fathometer corrections were obtained by averaging all bar checks for each survey vessel, the same fathometer being used throughout the season. An abstract of these corrections is included as part of this report.

Z - TABULATION: of applicable data:

A list of signals is attached to Vol. I of the sounding records. A tabulation of the other data is included as part of this report.

Respectfully submitted,

Approved and forwarded: 3/25/55

TIDE NOTE

A portable automatic tide gage at Ditchley, Dividing Creek, lat. 37°44.01′, long. 76°19.35¹ was used for obtaining tide reducers for the entire survey. No time or height 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

a 9/17 I b 9/24 I c 9/28 I d 10/5 II e 10/6 III f 10/12 III g 10/13 III g 10/13 IV h 10/14 IV j 10/25 IV k 10/26 V 1 10/27 VI TOTALS: SKIFF NO. 749: a 9/9 VII b 9/16 VII c 9/17 VIII d 9/2ab VIII me 9/23 VIII me 9/23 IX f 9/24 IX g 9/28 IX h 9/29 IX h 9/29 h 9/29 L X J 9/30 X	• 15.8 15.6 7.2 29.9 15.9 6.1	NO. OF POSITIONS 94 100 46 186
c 9/28 I d 10/5 II e 10/6 III f 10/12 III g 10/13 III g 10/13 IV h 10/14 IV j 10/25 IV k 10/26 V l 10/27 VI TOTALS: SKIFF No. 749: a 9/9 VII b 9/16 VII c 9/17 VIII d 9/20 VIII me 9/23 VIII e 9/23 IX f 9/24 IX f 9/29 IX h 9/29 IX h 9/29 X h 9/29 X	7•2 29•9 15•9 6•1	100
d 10/5 II e 10/6 III f 10/12 III g 10/13 III g 10/13 IV h 10/14 IV j 10/25 IV k 10/26 V 1 10/27 VI TOTALS: SKIFF NO. 749: a 9/9 VII b 9/16 VII c 9/17 VIII d 9/20 VIII d 9/23 VIII e 9/23 IX f 9/24 IX g 9/29 IX h 9/29 X g 9/30 X	29.9 15.9 6.1	46
e 10/6 III e 10/12 III g 10/13 III g 10/13 IV h 10/14 IV j 10/25 IV k 10/26 V l 10/27 VI TOTALS: SKIFF NO. 749: a 9/9 VII b 9/16 VII c 9/17 VIII d 9/20 VIII d 9/23 VIII e 9/23 IX f 9/24 IX g 9/29 IX h 9/29 IX h 9/29 X l 9/30 X	29.9 15.9 6.1	
e 10/6 III f 10/12 III g 10/13 IV h 10/14 IV j 10/25 IV k 10/26 V l 10/27 VI TOTALS: SKIFF NO. 749: a 9/9 VII b 9/16 VII c 9/17 VII d 9/20 VIII d 9/23 VIII e 9/23 IX f 9/24 IX g 9/29 IX h 10/12 III g 10/13 IV h 10/14 IV j 10/25 IV k 10/26 VIII k 10/26 VIII g 9/17 VIII g 9/17 VIII g 9/23 VIII g 9/23 IX f 9/24 IX g 9/29 IX h 9/29 X g/30 X	15•9 6•1	100
f 10/12 III g 10/13 III g 10/13 IV h 10/14 IV j 10/25 IV k 10/26 V l 10/27 VI TOTALS: SKIFF No. 749: a 9/9 VII b 9/16 VII c 9/17 VII c 9/17 VIII d 9/2a VIII d 9/23 VIII e 9/23 IX f 9/24 IX g 9/29 IX h 9/29 X l 9/30 X	6.1	0.5
f 10/12 III g 10/13 III g 10/13 IV h 10/14 IV j 10/25 IV k 10/26 V l 10/27 VI TOTALS: SKIFF NO. 749: a 9/9 VII b 9/16 VII c 9/17 VII c 9/17 VIII d 9/2a VIII d 9/23 VIII e 9/23 IX f 9/24 IX g 9/29 IX h 9/29 X l 9/30 X		87
g 10/13 III g 10/14 IV h 10/14 IV j 10/25 IV k 10/26 V l 10/27 VI TOTALS: SKIFF No. 749: a 9/9 VII b 9/16 VII c 9/17 VII c 9/17 VIII d 9/20 VIII d 9/23 VIII e 9/23 VIII e 9/23 IX f 9/24 IX g 9/29 IX h 9/29 X l 9/30 X	18.4	35
g 10/13 IV h 10/14 IV j 10/25 IV k 10/26 V l 10/27 VI TOTALS: SKIFF NO. 749: a 9/9 VII b 9/16 VII c 9/17 VII c 9/17 VIII d 9/20 VIII d 9/23 VIII e 9/23 IX f 9/24 IX g 9/29 IX h 9/29 X g 9/30 X		140
h 10/14 IV j 10/25 IV k 10/26 V l 10/27 VI TOTALS: SKIFF NO. 749: a 9/9 VII b 9/16 VII c 9/17 VII d 9/20 VIII d 9/20 VIII me 9/23 VIII e 9/23 IX f 9/24 IX g 9/29 IX h 9/29 X g/30 X	16.4	102
j 10/25 IV k 10/26 V 1 10/27 VI TOTALS: SKIFF NO. 749: a 9/9 VII b 9/16 VII c 9/17 VIII d 9/20 VIII d 9/20 VIII e 9/23 IX f 9/24 IX g 9/29 IX h 9/29 X 9/30 X	12.3	76
k 10/26 V 1 10/27 VI TOTALS: SKIFF NO. 749: a 9/9 VII b 9/16 VII c 9/17 VII c 9/17 VIII d 9/20 VIII e 9/23 VIII e 9/23 IX f 9/24 IX g 9/29 IX h 9/29 X 9/30 X	8.0	63
1 10/27 VI TOTALS: SKIFF NO. 749: a 9/9 VII b 9/16 VII c 9/17 VIII d 9/20 VIII d 9/20 VIII e 9/23 VIII e 9/23 IX f 9/24 IX g 9/29 IX 1 9/29 X 9/30 X	12.4	92
TOTALS: SKIFF NO. 749: a 9/9 VII b 9/16 VII c 9/17 VIII d 9/20 VIII d 9/20 VIII e 9/23 VIII e 9/23 IX f 9/24 IX g 9/28 IX h 9/29 X 9/30 X	34.8	232
SKIFF NO. 749: a 9/9 VII b 9/16 VII c 9/17 VII d 9/2d VIII d 9/23 VIII e 9/23 IX f 9/24 IX g 9/29 IX 1 9/29 1 9/30 X	27.1	185
a 9/9 VII b 9/16 VII c 9/17 VIII d 9/2d VIII e 9/23 VIII e 9/23 IX f 9/24 IX g 9/28 IX h 9/29 IX h 9/29 X	21.9.9	1438
b 9/16 VII c 9/17 VII c 9/17 VIII d 9/2d VIII e 9/23 VIII e 9/23 IX f 9/24 IX g 9/28 IX h 9/29 IX n 9/29 X	0.0	
c 9/17 VII c 9/17 VIII d 9/20 VIII e 9/23 VIII e 9/23 IX f 9/24 IX g 9/28 IX h 9/29 IX n 9/29 X	8.3	83
c 9/17 VIII d 9/2d VIII me 9/23 VIII e 9/23 IX f 9/24 IX g 9/28 IX h 9/29 IX h 9/29 X g 9/30 X	18.4	174
d 9/2d VIII me 9/23 VIII e 9/23 IX f 9/24 IX g 9/28 IX h 9/29 IX h 9/29 X 9/30 X	5.4	36 .
#e 9/23 VIII e 9/23 IX f 9/24 IX g 9/28 IX h 9/29 IX h 9/29 X 9/30 X	8.3	49
e 9/23 IX f 9/24 IX g 9/28 IX h 9/29 IX h 9/29 X 9/30 X	10.14	130
f 9/24 IX B 9/28 IX D 9/29 IX D 9/29 X 9/30 X	11.4	128
9/28 IX h 9/29 IX h 9/29 X 9/30 X	8.5	64
h 9/29 IX 1 9/29 X 1 9/30 X	8.9	78
9/29 X 9/30 X	6.8	73
9/30 X	10.8	69
Λ.	9•5	82
10/5 _{XT}	10.8	154
-0/2 AI	23•7	214
10/6 XII	11.4	77
10/12 XII	2.6	29
OTAL: PAND TOTAL:	22.0	173

FATHOMETER CORRECTIONS

<u>LAU</u> N	CH_NO]	L <u>02:</u> _					
DAY	DATE	<u>5'</u>	10'	15'	201	<u> 251</u>	<u> 301</u>
a	9/17	0.0	0.0	0.0	0.0		
b	9/24	0.0	0.0	0.0	0.0	/ 0.5	/ 0•5
d	10/5	/ 0∙2(R)	/ 0.5(R)	≠0.8(R)	/ 1.0(R)	/ 1.0(R)	/ 1.0(R)
	,	≠0.2(R)	≠ 1.0(R)	/ 1.5(R)	≠1.8 (R)	≠ 2•0(R)	
е	10/6	0.0	/ 0.2	≠ 0.2	/ 0.5	≠1. 0(R)	
f	10/12	0.0	0.0	0.0			
g	10/13	0.0	0.0	+ 0∙5	0.0		
h	10/14	0.0	0.0	0.0			
j	10/25	0.0	0.0	0.0	0.0		
k	10/26	0.0	0.0	0.0	0.0		
AVE	RAGES	0.0	0.0	/ 0.1	/ 0.1	/ 0.5	/ 0.5
COR	RECTIONS	:_0.0 to	15.0 - 0.	0	23.5 to	28 . 5 - / 0.4	
	•	15.5 to	23.0 - +	% 0.2	29.0 to	31.5 - / 0.6	
SKI	FF NO. 7	<u> 49:</u>			٠		
b	9/16	0.0	0.0	-0.2			
c	9/17	- 0 . 25	-0.35	-0.45	-0.45	-0.4	-0.3
d	9/21	/ 0.2	0.0	0.0			
е	9/23	/ 0.15	-0.05	/ 0.1	-0.4		
f	9/24	0.0	0.0	0.0	0.0		
h	9/29	+ 0.25	0.0	0.0	0.0		•
					- 0.6		
j		≠0.45(R)			-0.7(R)		
k		≠ 0.07			-0.05		
1		≁0.1 5			0.0		
m	10/12	<u>/0.1</u>	/ 0•2	<u> 4</u> 0.15	<u> 40.1</u>		
		≠ 0.07			-0.16		
CORI	RECTIONS	: 0 to 16					
.*		16.5 -	0.2	2	•		

PROCESSING OFFICE LIST OF SIGNALS H-8189

TRIANGULATION STATIONS

HUGH HUGH 3, 1954 MARS MARSH, 1944-52

TOPOGI	RAPHIC	STATIONS	<u>5</u>	SOUR	CE T-11	<u>053</u>			
Ago Hoe Sal	Bus Ida Tar	Cow Jap Uke	Doc Key Van	Eel Liz Woo	Few Moo Yak	Fly Nil Zig	Gem Out	Got P i n	His R io
				SOUR	CE T-11	055			
Aha Dim Gin Lay Roy Why	Amy Dix Guy Leo She Wig	Ann Duk Har Lux Sty Yea	Azo Duo Her Mop Tax Yes	Boa Emo Hug Neo Tub Zag	Boo Eon Ion Ora Uni Zoo	Bo x Eva Its Pro Use	Car Fac Jar Qak Vet	Cod Fro Jaw Quo Via	Cut Fun Ked Rat Vix

PROCESSING OFFICE

FLOATING AIDS TO NAVIGATION H-8189

BUOY	LATITUDE	LONGITUDE	DEPTH	POS. NO.	DATE
Dividing Creek Entr. Lighted Buoy l	37-42.67	76-16.82	15'	lb	9/24/54
Dividing Creek Buoy 4	37-43-27	76-18.24	141	62m	10/12/54
Dividing Creek Buoy б	37-43.66	76-18.78	13'	147j	9/30/54

PROCESSING OFFICE ADDENDUM To Accompany

HYDROGRAPHIC SURVEY H-8189 (Field No. Co-1554)

GENERAL

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

Respectfully submitted,

Mugh L. Profilet Cartographer

Norfolk, Va. 1 May 1957

GEOGRAPHIC NAMES Survey No. H-\$139		Jus sur	diadrai	13 S	1,305	/ ke of	Mally	V. KILL	5 /
	OL MO.	or to or C	S. Way.	St. Octobrotion	St. Oct Mod?	Contro	Mood Metality	J.S. Jaker	/
Name on Survey	A B	C 70, 0	/ D	E	S F	G	H	K	_
Virginia		(for	title)					BGN	
Chesapeake Bay	``(11	"					18	<u> </u>
Great Wicomico River		11	. 11					11	_
Dividing Creek								11	ļ
Jervia Point			ļ	<u> </u>					-
Jarvis Creek									+
Prentice Creek									-
Ditchley		(tio	e stat	ion)					-
Lawrence Cove		_	1	-					\downarrow
Matty Point Cove			<u> </u>						+
Hughlett Point				<u> </u>					\downarrow
Ingram Cove						1			-
Ball Creek									\downarrow
Clogerdale Creek					ļ				_
Dameron Marsh								BGN	+
	,		Names	appro	ved 5-	24-57			+
					1	Heck	i		-
	26	e ch	ert	534	toc	be.	* †		+
	6 10	rcem	ent	40	nav	nes.			-
									+
									+
							: 		ŀ
	-								+
			-						+
									+
		-						-	-
									L

U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

RHC

TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens:

10 June 1957

Plane of reference approved in /2 volumes of sounding records for

HYDROGRAPHIC SHEET 8189

Locality Chesapeake Bay, Virginia

Chief of Party: J. C. Bull in 1954

Plane of reference is mean low water, reading

2.5 ft. on tide staff at Ditchley, Dividing Creek

5.2 ft. below B.M. 1 (1954)

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

Condition of records satisfactory except as noted below:

Signature

Chief, Tides Branch

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8189

FIELD NO. CO-1554

Virginia, Chesapeake Bay, Dividing Creek and Vicinity

Surveyed September-October, 1954

Scale 1:20,000

Project No. CS-287

· Soundings:

Control:

808 Depth Recorder Sounding Pole Hand lead

Sextant fixes on shore signals

Chief of Party - J. C. Bull
Surveyed by - J. C. Bull, A. J. Ramey and J. M. Ogilvie
Protracted by - R. G. Hajec and A. Kaupa
Soundings plotted by - A. Kaupa
Preliminary verification - I. M. Zeskind
Reviewed by - I. M. Zeskind Date: 8/20/58
Inspected by - R. H. Carstens

1. Shoreline and Control

The shoreline originates with reviewed air-photographic surveys T-11053 and T-11055 of 1952, supplemented by several corrections to the shoreline made by the hydrographic party. These corrections are shown in red color.

The source of the control is described in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

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

This is a survey of the west shore of Chesapeake Bay between Dameron Marsh and Jarvis Point and several tributary creeks, the largest of which is Dividing Creek. The bottom is fairly irregular with shoals, flats, deeps and spits contributing to the irregularity.

4. Junctions with Contemporary Surveys

The junctions with H-8190 (1954-55) on the north, with H-8191 (1954-55) on the east and with H-8188 (1954) on the south will be discussed in the reviews of those surveys.

5. Comparison with Prior Surveys

H-1005 (1869), 1:20,000 H-252 (1849-51), 1:40,000

These early reconnaissance surveys cover the area of the present survey. Only minor differences in depths of 1-2 ft. are generally noted between the prior and present surveys. However, in several areas differences in depths of as much as 4 ft. are noted, as for example, in lat. 37°43.48', long. 76°18.14', where a prior depth of 2 ft. falls in present depths of 5-6 ft. The shorelines of the creeks have generally eroded, with the greatest erosion occurring at the mouth of Dividing Creek, where Jarvis Point has eroded in a southwesterly direction about 100 meters and Hughlett Point has eroded in a northwesterly direction about 100 meters.

The 6-1/2 ft. sounding charted in lat. 37°44.53', long. 76°20.15', from H-1005 falls in the entrance to Lawrence Cove in present depths of 9-11 ft. The present survey shows a controlling depth of 8 ft. in Lawrence Cove as far as the vicinity of lat. 37°44.35'. The 6-1/2 ft. sounding should be deleted from the chart.

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

6. Comparison with Chart 534 (Latest print date 4/7/58)

A. Hydrography

The charted hydrography originates with the previously discussed prior surveys which need no further consideration and with partial application of the present survey prior to verification and review. Only minor differences of 1-4 ft. between the charted and present depths are noted. The following differences between the charted information and the present survey are specifically mentioned:

1. A pier located on air-photographic survey T-11055 (1952) in lat. 37°44.17', long. 76°19.02' has not been charted.

- 2. The several groins charted on the southwest shore of Hughlett Point originate with corrections on a Geological Survey Quad applied from 1951 "J" camera photography. Re-examination of the photographs failed to reveal these groins. These groins are not found on the 1952 9 lens photographs from which T-11055 was compiled. They should be removed from the chart.
- 3. The 2 islets charted in lat. 37°43.28', long. 76°19.17' originate with planimetric survey T-8343 (1944-46) and fall in present depths of 1/2 ft. These islets appear to be grass in water which were neither located on the present survey nor shown on air-photographic survey T-11055 (1952). It is, however, recommended that these islets be retained on the chart to show the extent of the shoal area.

The present survey is adequate to supersede the charted hydrography.

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, except that lighted buoy "l" is located on the present survey 200 meters southeast of its charted position. This buoy would serve better if located about 180 meters north of its charted position where it would mark the end of a ridge with a least depth of 10 ft.

7. Condition of Survey

- a. This survey has only been given a preliminary verification. The Descriptive Report is complete and covers all matters of importance.
- b. The smooth plotting of the sounding lines inked was accurately done. Additional comment if necessary will be made when the verification is completed.

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work Recommended

The survey is considered basic and no additional field work is recommended.

Examined and approved:

Max G. Ricketts Chief, Nautical Chart Branch

Ernest B. Lewey Chief, Division of Charts

Chief, Hydrography Branch

Samuel B. Grenell Chief, Division of Coastal Surveys

ADDENDUM TO REVIEW H-8189 (1954)

Verified and inked by ----- J. T. Gallahan; C. R. Lehman Review Addendum by ----- I. M. Zeskind 7-13-61 Inspected by ----- R. H. Carstens

The verification of this survey has been completed. Soundings and depth curves have been completely inked and the junctional soundings added from verified surveys.

Comparison with Chart 534 (Latest print date 8-14-60)

The charted hydrography originates with the present survey after preliminary verification and prior to the complete inking of the smooth sheet. There are only minor 1-ft. differences between the charted and present survey depths.

Condition of Survey

- a. Completion of verification and inking reveals that the smooth plotting was well done.
- b. The Descriptive Report is complete and comprehensive.

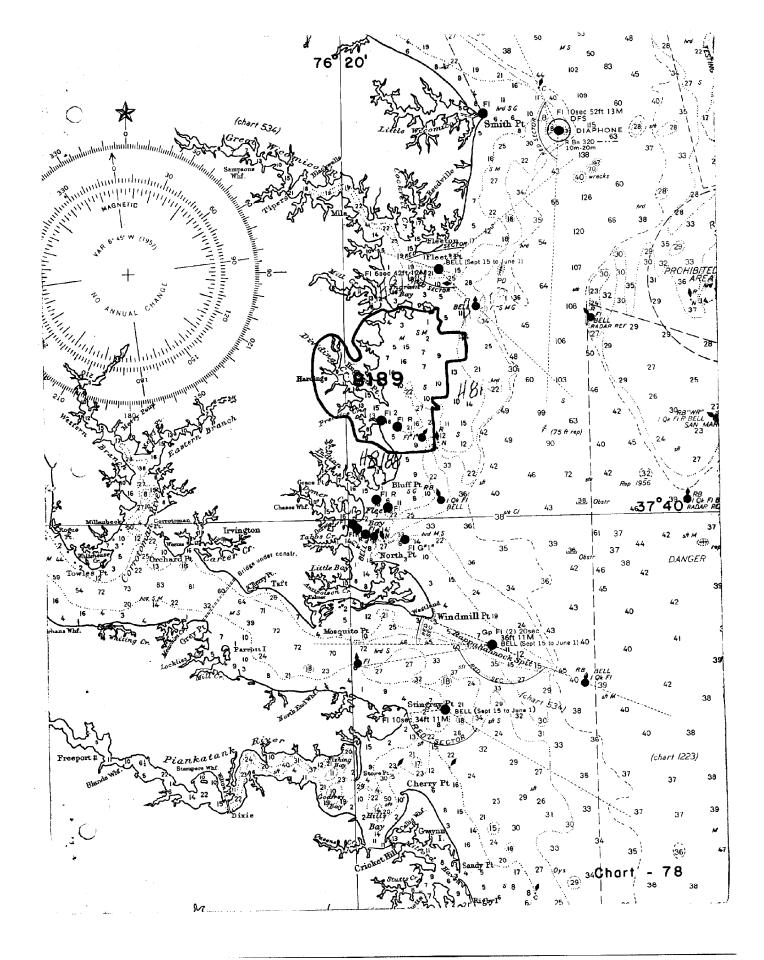
Approved:

Chief, Wautical Chart Div.

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 8189...

Records accompanying survey:		
Boat sheets 1(2nts) sounding vols12.; w	ire drag	; vols;
bomb vols; graphic recorder rolls9-	Envelop	es
special reports, etc. 1-Smaath sheet. 1-De	scripti	ve report.
.and .l-Boat sheet overlay.	• • • • • •	• • • • • • • • • • •
The following statistics will be submitted wire rapher's report on the sheet:	th the d	ertog-
Number of positions on sheet		3.051
Number of positions checked		.176
Number of positions revised		2 none
Number of soundings revised (refers to depth only)		50 × 14
Number of soundings erroneously spaced		.0 5
Number of signals erroneously plotted or transferred		.0
Topographic details	Time	.3. 1 AR
Junctions	Time	1,30
Verification of soundings from graphic record Pict Verif by - Junishum Hallefam	Time	82hrs. 815-58
Verification by . Jakens K. Tehmin. Total time		Date !!!!!
Reviewed by Time	20	
* Longely corr. to account for on	نهد جر	1 recording
Lat. 37045 53" Two Sndys (Indication.		



NAUTICAL CHARTS BRANCH

SURVEY NO. <u>H8189</u>

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5/14/57	1223	89 M Fam	Before After Verification and Review - Chumfor critical cor.
			criteral only.
6/24/57	78	8am	Before After Verification and Review
1		2000	Examined only Critical cor and
1/2457	534	102 Mraw	Examined only. Examined only. Before Men Verification and Review filled in blank i
12/8/58	T34/	1/C Anderson	Offer Preliment Review full application
3-16-59	1223	R. K. De Lander	Before After Verification and Review Thin cht 53/.
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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<u></u>			M.2169.1

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.

M-2168-1