# 8188

3188 800 800 Diag. Cht. No. 78-3.

Form 50

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. CO-1554 Office No. H-8138

LOCALITY

State Virginia

General locality Chesapeake Bay

Locality Fleets Bay and Vicinity

19/15/4

CHIEF OF PARTY

J. C. Bull

LIBRARY & ARCHIVES

DATE February 12, 1957

B-1870-1 (1

### 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-8188

Field No. Co-1454

State	VIRGINIA
General locality	CHESAPEAKE BAY
Locality	FLEETS BAY AND VICINITY
Scale 1:10,000	Date of survey 4 Aug. to 28 Sept.
nstructions dated	5 Feb. 1953 & 25 Feb. 1954
Vessel	COWIE
Chief of party	JOHN C. BULL
Surveyed byA.J.	RAMEY, J'M OGALVIE & P. HERTELENDY
Soundings taken by fXXX	MANA graphic recorder, MANAZANIAN POLE
Fathograms scaled by	SHIP'S PERSONNEL
Fathograms checked by	SHIP'S PERSONNEL
Protracted by	G.O. WIMBRO
Soundings penciled by	A.G. ATWILL
	feet at MLW MXXXX AND ARE TRUE DEPIHS
REMARKS: This sur	vey was smooth plotted in the Hydrographic
Section of the	Norfolk District Office.
<u> </u>	

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## DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SURVEY H-8/88,

FIELD NO. CO-1454

CHESAPEAKE BAY

FLEETS BAY & VICINITY

SHIP COWIE

SCALE 1:10,000

COMDR. J. C. BULL COMDG.

### A - PROJECT:

Project CS-287, Supplemental Instructions dated 5 Feb. 1953 and Sup- plemental Instructions dated 25 Feb. 1954.

### B - SURVEY LIMITS AND DATES:

This survey is of Fleets Bay and tributaries and has limits of lat.

40'
37°38.06', to lat. 37°12.10' and eastward to long. 76°16.50'. It makes

(H. 909((1953-54)) (H-8189(1954)) (H-8199(1954))

junction with (0-1553, to the south. (0-1551, to the north, and (0-2151, to the east.

The survey began on 4 Aug. 1954 and concluded on 28 Sept. 1954.

### C - VESSELS AND EQUIPMENT:

Launch No. 102, using 808 type fathometer no. 118-S was used in general depths of 5 ft. and upward to a junction with the Ship's work. Skiff 749, using 808 type fathometer 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 on a large fish plant wharf at Ocran, Dymer Creek. 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 also Norfolk list.

BUFF - Bluff 3, 1944

FLEE - Fleets Bay Ent. Lt. #1, 1954

DIAN - Old Tom's Light, 1944,

HAND - Dymer Cr. Ent. Lt., 1954

FLAT - Flats Light, 1954

REEK - Indian Cr. Ent. Lt. #2, 1954

Ymer - Flats Lt. No. 6, 1954.

### TOPOGRAPHIC: - MANUSCRIPT NO. T-11055:

AMP	DOL	JOE	NIX	RIG	UNI	YUM
AMY	DUB	JOY	NOW	RIP	USE	
AVE	EIG	KAL	QQO	SHE	VAN	
BED	EMO	IAP	ОНМ	SIP	<b>VAT</b>	
BIG	ERG	IEO	ORA	SIS	VIX	
BOB .	EVE	LIG	PIE	TAR	WE	
BUFF	FO <b>X</b>	MAX	PIX	TEN	WHO	
CAM	FEB	. MOO	POI	THY	WHY	
CUE	HIM	NEO .	QAK	TOM	WAY	
DIX	IRE	NIN	REV	TOY	YEA	*

CONTROL S	STATIONS;	TOPOGRAPHI	C; CONT.	T-11057			-	
ACE	CAR .	EBB	GAD	ICE	KEY	NA 3	<u>r</u>	PUT
ACT	CAT	EEK	GA G	IDA	KID	NEI	)	QUO
ADD	CEM	EEL	GAL	INK	KIN	NOI	)	RAG
ADO	COD	EGG	GAM	ION	KIP	NUX		RAM
AGO	CON	EGO	G <b>AS</b>	IRK	LAB	QA. F	(	RAT
ANT	COP	est	GIN	ITS .	LAD	OBI		REEK
AZO	CON	<b>EV</b>	GUM	IVY	LAM	ODI	)	RUE
BAG	CUR	FAG	GUY	JAM	LAX	OFF	•	RUM
ВАН	DAY	FAR	HAND	JAP	IA Y	OUT	•	SAD
BAR	DEB	FED	HAG:	JAR	LIZ	OWI	į	SAG
BAT	DEW	FEN	HAT	JAW	LUX	PAD		SAL
BEN	DIAN	FEZ	HER	JAY	MAG .	PAL		SAM
BIB	DIF	FIG	HEW	JIP	MAN	PAR		SAX
BIT	DIM	FIN	HEX	JUG	MAR	PAT		SET
BOA	DOG	FLAT	HID	JUT	MAW	PAW		SEX
BUT	DUK	FLER	HIS	KED	MUG	PEG		SIX
CAD	EAR	FUN	HIT	KEN	MUM	PEP		SUB
CAR.	EAT	TAP	HUT	TRY	NAT	POL		SUE
VAL	vet	VEX	VIM	WAD	WAR	WAS		TUB
WAX	WIW	WIT	YAK	YALI	YET	ZAG	ZIG	200

Note: Signal LAX appears twice on this sheet.

## G - SHORELINE AND TOPOGRAPHY:

The shoreline of the boat sheet was transferred from air-photo. manuscripts T-11055 and T-11057. The shoreline was defined by soundings where the range of tide permitted.

### G - SHORELINE AND TOPOGRAPHY: (CONT.)

The shoreline of the following areas have corrections as shown in red ink on the boat sheet:

- 1 lat. 37°40.63', long. 76°21.68' \( \) 3 lat. 37°40.64', long. 76°21.25' \( \)
- 2 lat.  $37^{\circ}42.60^{\circ}$ , long.  $76^{\circ}20.94^{\circ}$  4 lat.  $37^{\circ}39.90^{\circ}$ , long.  $76^{\circ}21.00^{\circ}$

### H - SOUNDINGS:

Depths were taken with the 808 type fathometer, hand lead and sounding pole. Bar checks were used for obtaining fathometer corrections. Junctions of the Ship, Launch and Skiff are in good agreement and depth curves can be adequately drawn.

### I - CONTROL OF HYDROGRAPHY:

Sounding lines were controlled by three-point fixes using natural objects or signals on shore.

### J - ADEQUACY OF SURVEY:

This survey is adequate and complete and should supersede all prior surveys.

### K - CROSSLINES:

Crosslines are in good agreement and comprise approximately eight per-

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

1 - Item 14 (Preliminary Review) A large wreck hull does exist (submerged see far. 1922) except for the bow timber) as shown on T-8343. At lat. 37040.431, long. 76 21.671, is the SW end of the wreck which is bare 4.0 ft. in 10 ft. of water. At lat. 37040.441, long. 76021.061, is the NE end of the wreck is submerged 3 ft. in 11 ft. of water. Pos. 134-n & 135-n, skiff 749.

## L-M - COMPARISON WITH PRIOR SURVEYS AND CHARTS; (CONT.)

- 2 Item 15 (Preliminary Review) The controlling depth entering Tribs creek
  should be changed from the previous 3 ft. to a present 2 ft. No power far 5 Review
  boats are kept up this creek and the only traffic is small row boats.

  3 The bridge at 37°38.02', 76°18.19', has a vertical clearance of 15.0 ft.
- 4 The bridge at lat. 37°41.70', long. 76°19.20', has a vertical clearance of 5.0 ft. and a horizontal clearance of 60.0 ft.
- 5 Positions 1-h, 2-h, 3-h check location of Indian Creek Lights 6, 10 & 12.

  This was done because they were rebuilt since aerial photograph was made.

  (See Form 567, Nonfloating Aids to Navigation).
- 6 At lat. 37041.741, long. 76019.001, are two middle grounds, bare at low water, pos. 52-n, skiff 749.

## LAUNCH NO. 102 and SKIFF NO. 749:

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

## N - DANGERS AND SHOALS:

- 1 At lat. 37°38.16', long. 76°21.80' is a wreck on shoreline, pos. 50-a, skiff no. 749.
- 2 At lat. 37°38.15', long. 76°21.30' is a wreck in middle of gut, pos. 59-a, skiff 749.
- 3 At lat. 37°38.14', long. 76°20.50' telephone and power lines cross the creek 20 ft. overhead, see boat sheet.
- 4 At lat. 37°37.89', long. 76°20.67' is a 10 inch pile in 7 ft. of water, bare 6.5 ft., pos. 6-b, pos. 749.

- 5 Lat. 37 % 8.07', long. 76 % 20.67' is a pile in 6.5 ft. of water and bare 6.5 ft. MLW.
- 6 At lat. 37°38.16', long. 76°18.75' is a wreck in 2.5 ft. of water, bare & ft. MLW
- 7 Position 86-c (skiff 749) is the offshore end of a fish trap, East of signal SAX.
- 8 Position 25-d (skiff 749) is the offshore end of a fish trap, West of signal VAL
- 9 Position 108-e (skiff 749) is the offshore end of a fishtrap.

  10 At lat. 37°40.61', long. 18.88' is a creosote pile in 14 ft. of water and bare 4.5 ft. (5'MLW) pos. 171 e Green)
- 11 At lat. 37°41.86', long. 76°19.70' is a wreck in 3 ft. of water, bare 2 ft., pos. 6-g, skiff 749.
- 12 At lat. 37°41.07', long. 76°19.04' is a partially sunken log in 2.0 ft. of water, bare 2 ft., pos. 88-g, skiff 749.
- 13 The area north of lat. 37°42.89', long. 76°21.08', (N of signal CUE), is foul with stumps and snags. (On insert), pos. 25-h, skiff 749.
- 14 The area west of lat. 37°41.57', long. 76°21.77' is foul with logs, stumps and snags, pos. 121-h, skiff 749.
- 15 At lat. 37°41.98', long. 76°21.08' is the offshore end of an old burned pier. Piles are in 8 ft. of water and bare 2 ft., pos. 78-1, 749. 16 At lat. 37°41.28', long. 76°19.97' is a submerged obstruction in 3 ft. of water, submerged 0.5 ft., pos. 61-1, skiff 749.
- 17 In the vicinity of signal GUM and signal HIT, lat. 37°40.50', long. 76°19.45', the shoreline is foul with stumps and snags, pos. 9-m, 749.

  18 Above lat. 37°41.08', long. 76°21.98' the gut is foul with logs wand stumps.

## N - DANGERS AND SHOALS; (CONT.)

19 - In the vicinity of lat. 37°40.47', long. 76°21.35' are numerous shell piles slightly below the surface. A sign is here warning of the piles. The 2 ft. sounding obtained in 8 - 9 ft. of water is one of these piles.

20 - At lat. 37°39.97', long. 76°21.35' is a wrecked boat in 3.5 ft. of water, bare 2.5 ft., pos. 168-p, skiff 749.

21 - Between lat. 37°39.89', long. 76°20.62', and lat. 37°39.97', long. 76°20.55' is a row of piles some of which are submerged, the others being bare about 10 ft., pos. 9-s - 16-s, skiff 749.

### O - COAST PILOT INFORMATION:

The Coast Pilot Report was forwarded to the Washington Office on 3 Nov. 1954. Additional information is as follows:

- 1 At lat. 37°41.97', long. 76°21.15' is a small marine railway, cap. of 40 ft., 25 tons and 5 ft. draft. Owned by Chesapeake Boat Basin, Kilmar-nock, Va., General boat repairs, pos. 107-h, skiff 749.
- 2 At lat. 37° 19.99, long, 76°21.16; is a small marine railway owned by J. D. Winegar of Whitestone, Va.. Capacity of about 40 ft., 30 tons, 6 ft. draft.
- 3 See No. 2, (Item 15) under "Comparison with prior survey and charts".

### 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 as follows:

## P - AIDS TO NAVIGATION; (CONT.): See also Norfolk locessing Office list.

- 1 Clark Point Shoal Nun Buoy "2" lat. 37°37.90', long. 76°19.50', in
- 9 ft. of water.
- 2 Fleets Bay Spar Buoy "2" lat. 37°39.20', long. 76°18.62', in 21ft. of water.
- 3 Fleets Bay Entrance Lighted Bell Buoy "4" lat. 37°39.32', long. 76°1909', in 15 ft. of water.
- 4 Bluff Point Shoal Lighted Bell Buoy lat. 37040.351, long. 76016.321, in 28 ft. of water.

### Q - LANDMARKS 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 - MISCELLANEOUS:

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.

## 2 - TABULATION OF APPLICABLE DATA:

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

Respectfully submitted,

Albert J. Ramey, Lieut. (j.g.)

J. Morgan Ogilvie, Ens. USCAGS.

Approved and forwarded: 3/25/55

Comdg., Ship O W I E.

## TIDE NOTE

### STATISTICS

LAU	NCH	NO	102	? •

DAY	DATE	VOL. NO.	STATUTE MILES	NO. OF POSITIONS
Abodef sshjjkllmmnppq	8/11 8/19 8/20 8/26 8/26 8/26 8/29 9/29 9/14 9/15 9/22 9/28	A A A A A A A A A A A A A A A A A A A	2.1 2.3 4.7 2.5 5.9 2.8 21.7 5.1 23.7 12.2 16.2 12.9 23.0 22.3 11.7 11.0 16.9 15.5 27.6	13 15 30 13 38 12 92 76 14 158 78 113 81 140 138 79 99 104 95
TOTALS	3 :		245•2	1466
·SKIFF	NO. 749:			
abodef shjiki mnppqrsstuvw	8/4 8/5 8/12 8/12 8/13 8/14 8/24 8/25 8/26 9/28 9/28 9/28	VII VIII VIII XIV XIV XIV XIV XIV XIV XI	14.1 11.0 9.2 23.0 19.7 12.3 14.0 11.0 14.7 6.7 14.6 12.9 15.2 14.1 1.5 10.7 5.5 4.1 4.1 19.9 11.7 17.4 6.0	160 126 87 189 171 146 138 124 167 62 146 153 167 150 49 136 69 72 28 175 119 172 59
	TOTALS:	are Statute Mil	273.4 518.6	2834 4300

FATHOMETER	CORRECTIONS:
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LCH.	102	<u>5'</u>	<u>10'</u>	<u> 15'</u>	201	251	<u>30'</u>
a	8/11	<del>/</del> 0•2	<del>/</del> 0.2	<del>/</del> 0.5	<del>/</del> 0.5	<del>/</del> 0.2	<del>/</del> 0•3
Ъ	8/12	0.0	<b>/</b> 0.1	<b>≁0.</b> 5	<del>/</del> 0∙5	<del>/</del> 0.2	<b>≠</b> 0.2
c	8/19	0.0	0.0	0.0	<del>/</del> 0•3	<b>+</b> 0∙5	
d	8/20	0.0	<b>/</b> 0.1	<b>/</b> 0∙5	<b>≁</b> 0•5	<b>≠</b> 0.2	<b>≁</b> 0•5
е	8/24	0.0	<b>≠</b> 0.5	<b>7</b> 0.6	<b>⊬</b> 0.5	<del>/</del> 0.3	<b>≠</b> 0.5
f	8/25	0.0	0.0	<b>/</b> 0∙2	<del>/</del> 0.6	<b>≠0.</b> 6	
g	8/26	0.0	<b>≠</b> 0•4	<del>/</del> 0.3	<b>/</b> 1.0	<b>≁0.</b> 8	<b>⊬</b> 0•8
_			<b>≠0.</b> 3	<b>/</b> 0∙8	<b>/</b> 0∙7	<b>-</b> ∕0•8	<b>/</b> 1.0
		0.0	<b>≠</b> 0.7	<b>/1.</b> 0	<b>≠</b> 1.0	<b>/</b> 1.0	<b>-</b> ∕0 <b>.</b> 2
h	9/1	0.0	0.0	0.0	0.0	<i>f</i> 0.1	<del>/</del> 0.7
j	9/2	0.0	0.0	0.0	<b>≠</b> 0.2	<b>≠</b> 0.5	<b>/1.</b> 0
k	9/3	0.0	0.0	<del>/</del> 0.4	<del>/</del> 0•4	<del>/</del> 1•0	<b>/</b> 1.0
j	9/8	0.0	£Q.4	<del>∠</del> Q•6	£Q•8	£1.0	<b>≠0.8</b>
m	9/14	0.0 0.0	<b>*</b>	<del>/</del> 0.6 <b>/0.</b> 5	<b>40.8</b> <b>70.5</b>	<b>70.</b> 8	
p	9/22	0.0	0.0	<b>≠</b> 0.2	<del>/</del> 0.2	<b>+</b> 0∙5	<b>+</b> 0∙5
q	9/28	0.0	0.0	<del>/</del> 0.5	<u>≠0.7</u>	<b>≠0.</b> 5	
AVEF	races:	0.0	<del>/</del> 0.2	<del>/</del> 0.4	<del>/</del> 0.5	<del>/</del> 0.6	<b>≠</b> 0.6

CORRECTIONS: 0.0 to 7.5 - 0.0 8.0 to 12.5 - \( \frac{1}{2} \).2 13.0 to 19.0 - \( \frac{1}{2} \).4 19.5 to 30.0 - \( \frac{1}{2} \).6

SKIF	F NO. 71	19:			
g	- <u>8/17</u> -	-0.05	0.0	0.0	0.0
j	8/19	<b>≠</b> 0.2	0.0	0.0	<del>-</del> 0.05
k	8/20	<b>/</b> 0.1	0.0	0.0	-0.15
1	8/24	<b>≁</b> 0•1	0.0	0.0	-0.1
m	8/ <b>2</b> 5	0.0	0.0	0.0	0.0
n	8/26	-0.05	-0.15	-0.1	0.0
p	9/1	<b>-</b> 0.05	0.0	-0.1	-0.2
q	9/2	-0.1	0.0	-0.15	-0.2
S	9/8	<b>/</b> 0•1	0.0	0.0	0.0
t	9/14	<b>+</b> 0∙05	0.0	-0.05	-0.1
u	9/15	0.0	0.0	-0.1	-0.1
v	9/22	<b>/</b> 0∙2	0.0	-0.2	-0.1
W	9/28	<u> 70.1</u>	0.0	0.0	0.0
AVER	AGES:	<b>4</b> 0•05	-O•O	-0.05	-0.08

CORRECTIONS: 0 to 25.0  $-\frac{1}{2}$ 0.0 25.0  $-\frac{1}{2}$ 0.2

## PROCESSING OFFICE FLOATING AIDS TO NAVIGATION H-8188

BUOY	LAT. LONG.	DEPTH POS. NO.	DATE
Bluff Pt. Shoal Ltd. Bell Buoy	37-40.35 76-16.38	281 × 28j	9- 2-54
Fleets Bay Buoy 2	37-39.24 76-18.62	19' 88e	8-11-54
Fleets Bay Entr. Lt. Bell Buoy 4	d. 37-39.35 76-19.08	14' × 89e	8-11-54
Clark Pt. Shoal Buov 2	37-37.90 76-19.50	9" 126b	8- 5-54

## PROCESSING OFFICE LIST OF SIGNALS H-8188

## TRIANGULATION STATIONS

BUFF DIAN FLAT FLEE HAND REEK YMER	OLD RESEFLA FLE DYM IND		ENTR. K ENTR.	IGHT N LIGHT, LIGHT	1954				•
TOPOG	RAPHIC	STATIONS	_		SOURCE	T-1105	5		
Amp Dub Joy Now Rip Use	Amy Eig Kal Odd She Van	Are Emo Lap Ohm Sip Vat	Bed Erg Leo Ora Sis Vix	Big Ere Lig Pie Tar Wee	Bob Fox Max Pix Ten Who	Cam Fub Moo Poi Thy Why	Cue Him Neo Qak Tom Yaw	Dix Ire Nin Rev Toy Yea	Dol Joe Nix Rig Uni Yum
	,				SOURCE	T-1105	Z		
Ace Bat Con Ear Gas Hit Jap Kin Mar Guot Vam	Add Ben Cop Eat Fed Gin Hut Jar Kip Maw Out Rag Sex Vex Yet	Ado Bib Cow Ebb Few Gum Ice Jaw Lab Mug Owl Ram Six Vim Zag	Ago Bit Cur Eek Fez Guy Ida Jay Lad Mum Pad Rat Sub Wad Zig	Aha Boa Day Eel Fig Hag Ink Jip Lam Nat Pat Rue Sue War Zoo	Ant But Dew ESS Fin Hat Ion Jug Lax Nay Paw Rum Tan Was	Azo Cad Dif Ego Fun Her Irt Jut Lay Nod Peg Sad Tap Wax	Bag Cat Dim Est Gad Hets Ked Lix Pep Sag Try Win	Bah Cem Dog Eva Gag Hid Ivy Ken Lux Oak Pol Sam Tub	Bar Cod Duk Fag Gam His Jam Kid Mag Obi Put Sax Vak

### ADDENDUM To Accompany

## HYDROGRAPHIC SURVEY H-8188 (Field No. Co-1454)

### GENERAL

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

### CHART COMPARISONS

Lat.	37-41.25; Long.	76-17.15	6' shoal falls in charted depths of 7'-to 10'
Lat.	37-41.02; Long.	76-17.40	Shoal area more extensive than charted. Other shoals in same vicinity Development on old surveys is very sparse.
Lat.	37-41.30; Long.	76-16.60	18' curve plots 200% east of charted position
Lat.	37-40.30; Long.	76-18.90	6' curve plots 2004 East of charted position.
	37-41.04; Long.		Shoal extends farther into channel than charted we Not developed on old survey
Lat.	37-40.40 Long.	76-21.30	Dymer Creek shoaler than charted. #99 M curve 400M SE of charted position
Lat.	37-39.10; Long.	76-18.30°	M curve 400M SE of charted position (Only 1600) difference in depths-shifts carred a considerable distance here) in 13 told 2 and 3 shoals near channel not charted 2 foot is charted on print of chart 534 - 4/7/58.
Lt.	37-39.50; Long.	76-19.10	Shoal area of 5' to 6' not charted

Respectfully submitted,

Hugh L. Proffitt Cartographer

GEOGRAPHIC NAMES Survey No. H8188 #1 Name on Survey	/s	E B	Or C	D Control	E E	on Lee Mages	O Cipe of G	H Spot Herbally	A K	
Virginia									BGN	1
Chesapeake Bay	<b>,</b> ní								\$1	2
Fleets Bay	(1	pply	fter	inking	betw	en No	th and	Bluf	•	3
Oyster Creek				Po	nts)		•			4
North Point						·				5
Little Bay										6
Antipoison Creek										7
Harpers Creek						, <u>U</u> .				8
Tabbs Creek										9
Dymer Creek							·.		BGN	10
Ocean		tide :	tatio	)						11
Ashleys Cove					. :					12
Georges Cove										13
Poplar Nack C eek										14
Chases Cove				• .						15
Johnson C eek									-	16
Hunts Cove										17
Jeas Coma								-		18
Romes Bay										19
Indian Creek										20
Longs Creek	,					ļ <u>.</u>	•			21
Pitmans Cove										22
Waverly Cove	·		<u> </u>							23
Kilmarnock Landing						ļ				24
Arthum Cove						- X #				25
Bells Creek	3								:	26
										27

M 234

GEOGRAPHIC NAMES Survey No.			de don de	S wed to	/2 2	Strate Heats	o cide o	A Seria Metalina	J.S. Jegr.	15
H_8188		HO OF	grevious /	S MOS	red red to	Geo W.	Guide	A MET	S. Jak	
#2:	\or	40 Qu	40. 04	410	'WO'	5r <u> </u>	9/6	235	v./	,
Name on Survey	/ A	/ B	/ c	/ D	/ E	F	G	/ н	/ K	4
Henrys Creek										_
Barnes Creek		·								
Bluff Point										
			Name	เร สกท	oved 2	27-51	,_			
			TANTE	o app	Ovou .	-27-5°	-			
					•	1				+
	For b	st pl	cemen	t of na	mes,	ee ch	<b>FG</b> 5	94.		-
	-		-					-		$\dagger$
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## Hydrographic Surveys (Chart Division)

## HYDROGRAPHIC SURVEY NO. ...8188.

Records accompanying survey:		
Boat sheets 1 (2 parts ounding vols. 17; w	ire dra	g vols;
bomb vols; graphic recorder rolls	12-Enve	lopes
special reports, etcl-Descriptive repor	t and 1	-Smooth sheet.
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The following statistics will be submitted wirepher's report on the sheet:	th the	cartog-
Number of positions on sheet		4300
Number of positions checked		.338.
Number of positions revised		
Number of soundings revised (refers to depth only)		/7
Number of soundings erroneously spaced		
Number of signals erroneously plotted or transferred		
Topographic details	Time	₽
Junctions	Time	
Verification of soundings from graphic record	Time	!6
Verification by Ichambers Total time	.336.	Date 11.24.58
Reviewed byTime	40	Date 9 April 1959

#### DIVISION OF CHARTS

### REVIEW SECTION - NAUTICAL CHART BRANCH

### REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 8188

Virginia, Chesapeake Bay Fleets Bay and Vininity FIELD NO. CO-1454

Surveyed - August - September 1954

Scale 1:10,000

Project No. CS-287

Soundings:

æl

Control:

808 Depth Recorder Leadline Sounding Pole Sextant fixes on shore signals

Chief of Party - John C. Bull
Surveyed by - A. J. Ramey, J. M. Ogilvie and P. Hertelendy
Protracted by - G. O. Wimbro
Soundings plotted by - A. G. Atwill
Verified and inked by - J. C. Chambers
Reviewed by - L. S. Straw
Inspected by - R. H. Carstens
Date: 9 April 1959

## 1. Shoreline and Control

The shoreline originates with reviewed shoreline surveys T-11055 (1952-54), T-11057 (1952-53) and subsequent minor revisions by the hydrographer shown in red on the smooth sheet.

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

### 2. Sounding Line Crossings

The depths at sounding line crossings are in adequate agreement.

### 3. Depth Curves and Bottom Configuration

The usual depth curves supplemented by the 3-foot curve are completely delineated on the survey.

The bottom is sand and mud with the characteristic bars and deeps in the creeks and coves of this vicinity. From these tributaries 10 to 15 foot channels extend through large shoal areas of undulating sand bottom for  $\frac{1}{2}$  to  $1\frac{1}{2}$  miles from shore to reach general depths of 20 to 30 feet in the deep area of Fleets Bay.

## 4. Junctions with Contemporary Surveys

The junctions with H=8082 (1953-54) on the south, H=8191 (1954-55) on the east are in adequate agreement.

The depths at the junction of the present survey and H-8189 (1954) on the north are in good agreement. Soundings in the overlapping area will be transferred to the present survey when H-8189 (1954) has been completely verified.

## 5. Comparison with Prior Surveys

H-252 (1849-51) 1:40,000 H-2560 (1901) 1:20,000 H-1005 (1869) 1:20,000 H-3313 (1911) 1:40,000

A comparison between the prior surveys and the present reveals recessional changes of 50 to 100 meters in shoreline particularily in exposed places. The natural channels of all the creeks have shoaled about lfoot, except the entrance to Tabbs Creek, (lat. 37°39.28', long. 76°20.55') which was 12'½" to 13 feet on H-1005 (1869) and has now shoaled to 2 ft. on the present survey. The depths over the shallow flat areas of Fleets Bay have changed little, and are generally within a foot of prior depths, however, in the deeper areas the depths are on an average of 2 feet shoaler on the present survey as compared to the old survey.

The differences in depths result from a combination of factors such as sedimentation, storm action in exposed areas, and weak control on the earlier small scale surveys.

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

- (1) The charted hydrography originates basically with prior surveys discussed in paragraph 5 supplemented by information from other sources, and critical information from the present survey applied before verification and review.
- (2) The charted position of the wreck originating with T-8343 mentioned in the Preliminary Review and the Descriptive Report should be corrected to agree with the position of this wreck as determined by the present survey. (lat. 37°40.43', long. 76°21.06').

(3) The chart indicates a controlling depth of 1 foot at the entrance to Tabbs Creek (lat. 37°39.28', long. 76°20.55') which originates with the present survey before verification and review. The depth here should be revised to 2 feet which is the controlling depth stated in the Descriptive Report and shown on the completed present survey.

The present survey is adequate to supersede the charted information within the common area.

### B. Aids to Navigation

- (1) Subsequent to the present survey the charted floating aids to navigation have been changed in accordance with Notice to Mariners No. 4, 1959.
- (2) It is noted that the light charted in lat. (37°39.33' long. 76°19.09' replaces a lighted bell buoy; that a lighted bell buoy charted in lat. 37°39.52' long. 76'2.60' was established and a former light structure was removed in lat. 37°39.27' long. 76°17.73'.
- (3) The lights charted in lat. 37°40.35' long. 76°18.42', lat. 37°39.75' long. 76°19.68' and lat. 37°39.5' long. 76°19.35' differ by as much as 100 meters from their respective positions on the present survey.
- (4) The red and black lighted bell buoy charted in lat. 37°40.55' long. 76°16.25' is about 350 meters north of its location on the present survey.
- (5) All aids as charted properly mark the features intended with the possible exception of the lights, mentioned in par. 6B (3) above.

## 7. Condition of the Survey

- a. The sounding records and the Descriptive Report are complete and comprehensive.
- b. The smooth plotting was well 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 recommended.

EXAMINED AND APPROVED:

Max G. Ricketts

Chief, Nautical Chart Branch

Lorin F. Woodcock Chief, Hydrographic Branch Ernest B. Lewey Chief, Chart Division

Samuel B. Grenell Chief, Coastal Surveys Division

#### U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

### TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens

6 March 1957

Plane of reference approved in 17 volumes of sounding records for

HYDROGRAPHIC SHEET 8188

Locality Chesapeake Bay, Va.

Chief of Party: J. C. Bull in 1954

Plane of reference is mean low water, reading

2.5 ft. on tide staff at Ocran

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

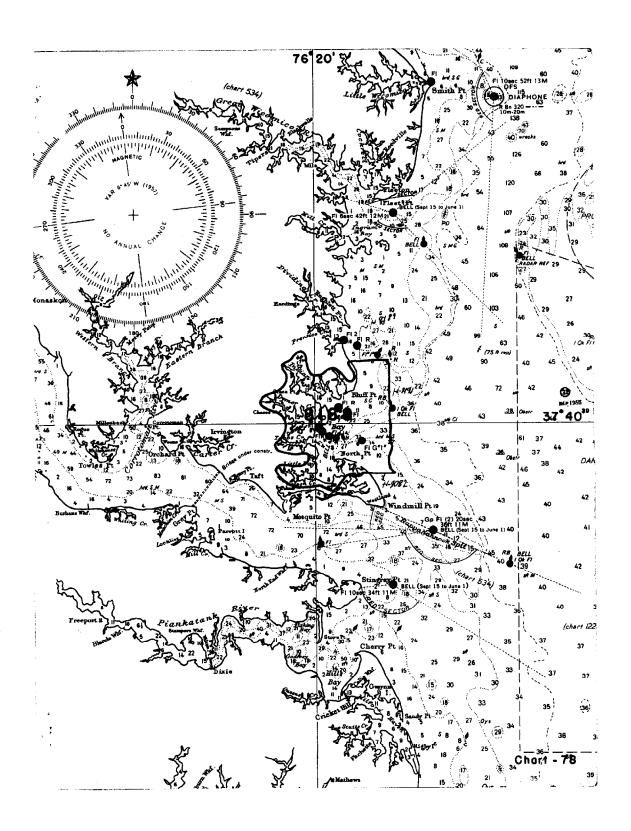
Height of mean high water above plane of reference is 1.1 ft.

Condition of records satisfactory except as noted below:

Chief, Tides Branch

Hillian

Comm-DC 34330



## NAUTICAL CHARTS BRANCH

## SURVEY NO. H-8188

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
3-7-57	534	R.K. De Lawder	Partially applied Before Alter Verification and Review Britisal
			conections only
4/14/5-	1223	Ja metan	Before - Verification and Review
7 / /			Exercised - not applied at this time
6/24/57	78	fgm.	Before After- Verification and Review
			Examined only.
9/23/59	534	J. HEaton	-Bries After Verification and Review July applied
1-19-60	1223	R.K. De Lands	Before After Verification and Review Thru Cat 534
1/4/61	78	J. Heaton	Ballon After Verification and Review thru cht 1223
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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.