

7956

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Diag. Cht. Nos. 78-3 & 1222-3

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

CS-350

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC
Field No. CO-1552 Office No. H-7956

13

LOCALITY

State VIRGINIA
General locality CHESAPEAKE BAY
Locality WARE RIVER AND NORTH RIVER

19 52

CHIEF OF PARTY

J. H. Brittain

LIBRARY & ARCHIVES

DATE OCTOBER 16, 1953

7956

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-7956

Field No. CO-1552

State VIRGINIA

General locality CHESAPEAKE BAY

Locality WARE RIVER AND NORTH RIVER

Scale 1:10,000 Date of survey 23 Sep't. - 14 Oct. 1952

Instructions dated 13 March 1952

Vessel Ship COWIE

Chief of party J. H. Brittain

Surveyed by Ship's Officers

Soundings taken by ^{Port. 808} fathometer/~~graphic recorder~~, hand lead, ~~wire~~ pole.

Fathograms scaled by SHIPS' PERSONNEL

Fathograms checked by SHIPS' PERSONNEL

Protracted by ROY B. DAVIS

Soundings penciled by ROY B. DAVIS & W.W. FEAZEL

Soundings in ~~fathoms~~ feet at MLW ~~MLW~~ *and are true depths.*

REMARKS: This survey was smooth plotted in the Hydrographic Section of
the Norfolk Processing Office.

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SHEET H -7956 , FIELD NO. CO-1552

WARE RIVER AND NORTH RIVER

CHESAPEAKE BAY

SCALE 1:10,000

SHIP COWIE

J. H. BRITTAIN, COMDG.

A - PROJECT:

Project CS-350; Original Instructions dated 13 March 1952.

B - SURVEY LIMITS AND DATES:

The area covered by this survey is the Ware River and the upper end of North River. Junction is made with ^{H-7957}(CO-1652) (1952) to the east. Hydrographic surveys began 23 Sep't. 1952 and were conducted through 14 October 1952.

C - VESSELS AND EQUIPMENT:

Thirty-foot launch no. 102 and 25 foot hydrographic skiff no. 737 were used, boats operating from the Ship COWIE. Launch no. 102 using 808 type fathometer #63 was used where the depth was 6 feet or over in unconfined areas. Skiff no. 737 powered by two outboard motors using 808 type fathometer no. 118, pole and leadline for sounding was used in shoal areas close to shore and in creeks and inlets where the depths were not sufficient for launch operation.

D - TIDE AND CURRENT STATIONS:

A portable automatic tide gage was maintained at Auburn Wharf, North River for the major part of the survey. The work done on 14 Oct. was referred to the gage at Mobjack, East River. Tide gage records and all soundings are on Eastern Standard Time. No Current Stations were

D - TIDE AND CURRENT STATIONS: (CON'T.)

observed in this area.

E - SMOOTH SHEET:

Projections will be constructed and sheets plotted by the Norfolk Processing Office.

F - CONTROL STATIONS:1. The following triangulation stations were used:

CED	Cedar (VFC), 1930-44.	MIL	Windmill (VFC), 1930-44.
COT	Cottage (VFC), 1930-44.	SAN	Sand (VFC), 1936-44.
DAR	Darling (VFC), 1936-44.	TAB	Tabb (VFC), 1936-44.
HIC	Hicks (VFC), 1936-44.	TAL	Talim ^d (VFC), 1936-44.
HIL	Hill (VFC), 1936-44.	TOD	Todd (VFC), 1936-44.
IRV	Irving (VFC), 1930-44.	WARE	Ware (VFC), 1930-44.

2. The following topographic stations were used:

ANT - RS-431	BED - RS-431	ELM - RS-431	HAG - RS-431
AXE - 431	CRA - 431	EBB - 431	HAW - 431
ADA - 429	CAN - 431	FLY - 431	ILL - 431
AND - 433	CAB - 431	FAT - 433	IVY - 431
AHA - 433	CAT - 433	FIT - 431	IRK - 431
AMY - 431	CAR - 431	FOX - 431	IDA - 433
ART - 431	CAW - 433	GAT - 431	JOE - 431
ALL - 431	DOT - 429	GIG - 431	JAK - 429
BUG - 431	DOG - 429	GOO - 431	JAR - 431
BAD - 431	DIX - 431	GAB - 431	JIB - 431
BOX - 431	DEE - 433	GUM - 431	JIG - 431
BEE - 429	EGO - 431	HIG - 429	KIM - 429

F - CONTROL STATIONS: (CON'T.)(TOPOGRAPHIC STATIONS)

BUD - RS-431	EAR - RS-431	HIT - RS-431	KEP - RS-433
BON - 431	ERA - 433	HOD - 431	KEY - 431
KED - 431	NIP - 431	RID - 431	TAP - 433
LAM - 431	NED - 429	QUO - 433	TAN - 431
LAG - 429	NAT - 433	RIM - 431	USE - 433
LAX - 433	ODE - 431	RAG - 431	VEE - 431
LIZ - 431	ONE - 431	RAM - 433	VAL - 433
LOP - 433	ODD - 433	ROD - 433	VET - 431
MUG - 431	ORA - 433	SAX - 431	WIN - 433
MAW - 433	PAW - 431	SAL - 433	WIG - 433
MET - 431	PEG - 431	SUE - 431	WAN - 431
MAG - 433	PUD - 431	SOX - 433	YES - 433
MAR - 429	PET - 433	TOY - 431	YAK - 433
			ZIG - 433
			ZAG - 433

G - SHORELINE AND TOPOGRAPHY:

The shoreline on the boat sheet was transferred from air photo manuscripts RS-429, RS-431 and RS-433 which cover this area. The air photos were taken recently and the shoreline on the manuscripts is correct. All of the topographic signals were radial plotted from the air photos on the manuscripts and then transferred directly to the boat sheet.

It was not practical to define the entire low water line by soundings due to the small range of tide and the attendant difficulty of getting the sounding vessel close to the beach without long periods spent dragging bottom or going aground. However, the sounding lines were run close to and parallel to the beach wherever possible.

H - SOUNDINGS:

Depths were measured with 808 type recording fathometer, handlead and pole. Bar checks were taken daily from the launch and skiff to depths where satisfactory results could be obtained. Fathometer corrections have been determined from the bar checks and entered in the sounding volumes by the field party.

A check on the boat sheets of the overlap between fathometer, leadline and pole shows no more than 1 foot difference.

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:

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

K - CROSSLINES:

Crosslines are in good agreement, the percentage is estimated at 10 percent.

L-M - COMPARISON WITH PRIOR SURVEYS:

A comparison with Chart 494 shows the following:

1. The 12 foot sounding circled on preliminary review was looked for but 13 feet was the least depth found in this area.

L-M - COMPARISON WITH PRIOR SURVEYS: (CON'T.)

In general there is very little change between the present survey and the chart and previous surveys.

N - DANGERS AND SHOALS:

No evidence of dangers or shoals were found in the channels. Crab and fish nets are spotted along the shorelines, but they are temporary. No other important dangers or shoals not already shown on Chart 494 were found in the area covered by this survey. There are several wrecks and ruins of piers far up creeks that are marked on the boat sheet and positions recorded in the record books. *Numerous charted pier ruins are not disposed of. - See review.*

O - COAST PILOT INFORMATION:

This information is covered by a separate report by the Commanding Officer, Ship COWIE.

P - AIDS TO NAVIGATION:

Sextant fixes were obtained at all floating aids. Positions of fixed aids were obtained by air photo processes.

- ✓ 1. ^{Ware River} ~~Ware Point Shoal~~ Buoy "2"; Lat. 37°21.75'; Long. 76°25.05';
in 8 feet of water.
- ✓ 2. ^{Ware River} ~~Piney Point Shoal~~ ^{BBN} Buoy "1"; Lat. 37°22.18'; Long. 76°26.34';
in 12 feet of water.
- ✓ 3. ^{Ware River} ~~Middle Ground Shoal~~ ^{BBN} Buoy "3"; Lat. 37°22.75'; Long. 76°27.50';
in 9 feet of water.
4. Bailey Wharf Daybeacon; Lat. 37°23.23'; Long. 76°27.58'; in
5 feet of water.

The air photo position of Bailey Wharf Daybeacon was said to be unreliable.

Q - LANDMARKS FOR CHARTS:

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

R - GEOGRAPHIC NAMES:

Geographic names shown on Chart 494 for this area are adequate and no additional names are recommended.

U-Y - MISCELLANEOUS:

In featureless shoal areas, soundings were spaced every 30 seconds apart on the boat sheet. Intermediate soundings were plotted only when needed to define underwater features.

Z - TABULATION OF APPLICABLE DATA:

The Coast Pilot Report has been forwarded to the Washington Office. A list of signals is attached in Volume I of the sounding records. A tabulation of other data is attached.

Respectfully submitted,

Robert M. Borst

Robert M. Borst,
Ensign, USC&GS,
Ship COWIE.

Approved and forwarded:

J. H. Brittain
J. H. Brittain,
Comdr., USC&GS,
Comdg. Ship COWIE.

STATISTICSSKIFF NO. 737:

<u>VOL. NO.</u>	<u>DAY</u>	<u>DATE</u>	<u>NO. OF POSITIONS</u>	<u>STAT. MILES</u>
I	a	9/23	145	22.1
I & II	b	9/25	178	28.8
II	c	9/26	89	15.4
II & III	d	10/2	218	38.1
III	e	10/3	57	9.0
III	f	10/8	163	21.8
IV	g	10/14	<u>190</u>	<u>24.8</u>
TOTAL:			1040	160.0

LAUNCH NO. 102:

V	a	9/24	84	15.8
V	b	10/1	<u>117</u>	<u>21.1</u>
TOTAL:			201	36.9
GRAND TOTALS:			1241	196.9

TOTAL AREA: 7.5 Sq. Miles.

TIDE NOTE

A portable automatic tide gage at Auburn Wharf, North River,
Lat. $37^{\circ}25'12''$ ^{.22'}; Long. $76^{\circ}26'19''$ ^{.23'}; was used for obtaining tide re-
ducers for most of this survey. The work done on 14 October was
referred to the portable automatic gage at Mobjack, East River,
Lat. $37^{\circ}22'27''$ ^{.46'}; Long. $76^{\circ}20'45''$ ^{.76'}; Height of MLW for Auburn Wharf
was 1.4 feet above zero of the tide staff and for East River was
4.6 feet above zero of the staff.

FATHOMETER CORRECTIONS:LAUNCH NO. 102:"a" day - 24 Sep't. 1952 - Fathometer 808, No. 63."A" SCALE

0.0 to 13.0 ft.

-0.2 to 19.0

-0.4 to 25.0

-0.6 to ----

"b" day - 1 Oct. 1952 - Fathometer 808, No. 63."A" SCALE

0.0 to 14.0 ft.

-0.2 to 21.0

-0.4 to 29.5

-0.6 to ----

SKIFF NO. 737:"g" day - 14 October 1952 - Fathometer 808, No. 118.

No Correction.

"f" day - 8 October 1952 - Fathometer 808, No. 118.

0.0 to 5.0 ft.

-0.2 to 11.5

-0.4 to 15.5

-0.6 to 21.5

-0.8 to 28.0

AIDS TO NAVIGATION
H-7956

FLOATING AIDS

<u>NAME</u>	<u>LAT.</u>	<u>M.</u>	<u>LONG.</u>	<u>M.</u>	<u>DEPTH</u>	<u>POS. NO.</u>	<u>DATE</u>
<i>Ware River</i> *Ware Pt. Shoal Buoy 2	37-21	1380'	76-25	82'	8'	1b	10/ 1/52
+Ware River Daybeacon 1							
*Winey Pt. Shoal Buoy 1	37-22	322'	76-26	487'	11'	218d	10/ 2/52
+Ware River *Middle Ground Shoal Buoy 3 Daybeacon 3	37-22	1394'	76-27	721'	9'	163f	10/ 8/52
**Spar 100N	37-21	654'	76-24	1386'	23'	1a	9/24/52

NON-FLOATING AIDS

***Bailey Wharf Day-beacon 37-23 430' 76-27 853' 5' 167d 10/2/52

Windmill Point Shoal Light

Jarvis Point Shoal Light

Lone Point Light

Cradle Point Light

* Names changed in 1953 Light List

** Not listed in Light List

*** Sextant position, air-photo position not reliable

+ listed in Light List, 1955

LIST OF SIGNALS
H-7956

TRIANGULATION STATIONS

CED	CEDAR (VFC), 1930-44
COT	COTTAGE (VFC), 1930-44
DAR	DARLING (VFC), 1936-44
HIS	HICKS (VFC), 1936-44
HIL	HILL (VFC), 1936-44
IRV	IRVING (VFC), 1930-45
MIL	WINDMILL (VFC), 1930-44
SAN	SAND (VFC), 1936-44
TAB	TABB (VFC), 1936-44
TAL	TALIA (VFC), 1936-44
TOD	TODD (VFC), 1936-44
WARE	WARE (VFC), 1930-44

TOPOGRAPHIC STATIONS (Source RS-429)

Ada	Bee	Dot	Dog	Hig	Jak	Kim	Lag	Ned
-----	-----	-----	-----	-----	-----	-----	-----	-----

(Source RS-431)

All	Amy	Ant	Art	Axe	Bad	Bed	Bon	Box	Bud	Bug
Cab	Can	Car	Cra	Dix	Ear	Ebb	Ego	Elm	Fit	Fly
Fox	KKK	KKK	Gab	Gat	Gig	Goo	Gum	Hag	Haw	Hit
Hod	Ill	Irk	Ivy	Jar	Jib	Jig	Joe	Ked	Key	Lam
Lax	Liz	Metm	Mug	Nip	Ode	One	Paw	Peg	Pud	Rag
Rid	Rim	Sax	Sue	Tan	Toy	Vee	Vet	Wan		

(Source RS-433)

Aha	And	Cat	Caw	Dee	Era	Fat	Ida	Kep	Lax	Lop
Mag	Maw	Nat	Odd	Ora	Pet	Quo	Ram	Sal	Sox	Tap
Use	Val	Wig	Win	Yak	Yes	Zag	Zig			

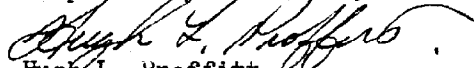
ADDENDUM
To Accompany

HYDROGRAPHIC SURVEY H-7956 (Field No. Co-1552)

GENERAL


No difficulty was experienced during the smooth plot of this survey. The control is very good and the hydrography apparently well done. Additional sounding lines would have been helpful in drawing depth curves in creeks.

Respectfully submitted,


Hugh L. Proffitt
Cartographer.

Norfolk, Va.
13 October 1953

Approved & Forwarded;


Roswell C. Bolstad
Supervisor, S.E. District.

GEOGRAPHIC NAMES

Survey No. H-7956

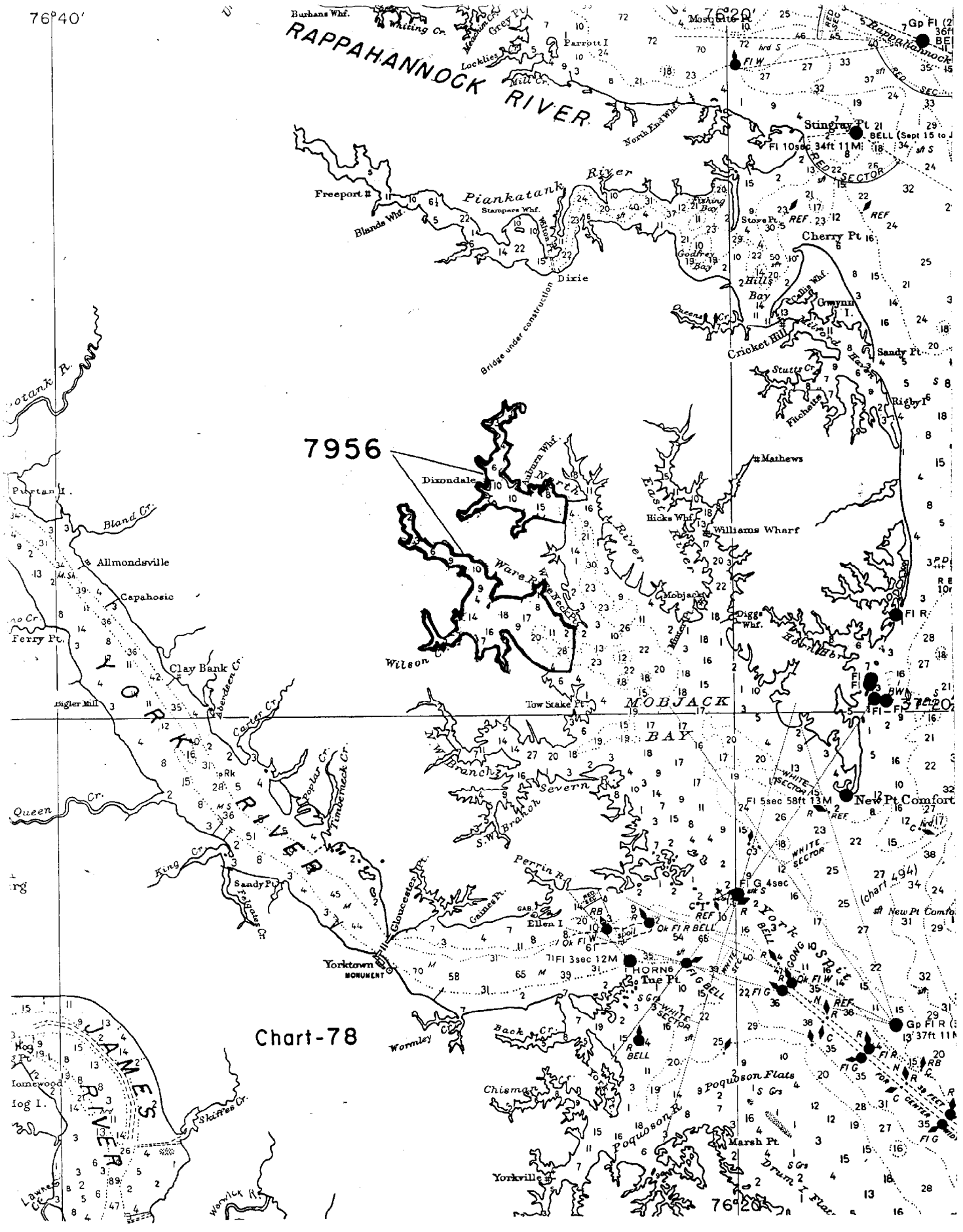
Name on Survey	A On Chart No.	B On previous survey	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
<u>Virginia</u> ✓	494	}	for title						Bty 1	
<u>Chesapeake Bay</u>										" 2
<u>Ware River</u> ✓				✓						" 3
<u>Ware Neck Point</u> ✓			✓						4	
<u>Oldhouse Creek</u> ✓			✓						Bty 5	
<u>Wilson Creek</u> ✓			✓						6	
									7	
<u>North River</u> ✓	✓		✓						8	
<u>bone Point</u> ✓	✓		✓						9	
<u>Belleville Creek</u> ✓	✓		✓						10	
<u>Auburn Wharf</u>				(tide station)					11	
<u>Back Creek</u> ✓	✓		✓						12	
<u>Elmington Creek</u> ✓	✓		✓						13	
<u>Toddsbury Creek</u>			✓						14	
<u>Morgans Branch</u> ✓	✓		✓						15	
<u>North End Branch</u>			✓						16	
									17	
									Names underlined in red are approved	
									10-22-53. L. Hock	
									(see chart 494 for best placement of names)	
									19	
									20	
<u>Mobjack</u>				(tide station)					21	
<u>Ware River Point</u> ✓	✓		✓						22	
<u>Jarvis Point</u> ✓	✓		✓						23	
<u>Cradle Point</u> ✓	✓		✓						24	
									25	
									26	
									27	

76°40'

RAPPAHANNOCK RIVER

7956

Chart-78



Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NOH-7956.....

Records accompanying survey:

Boat sheets ..1...; sounding vols. ..5...; wire drag vols.;
 bomb vols.; graphic recorder rolls 4 ^{Env.}...;
 special reports, etc. 1 Smooth Sheet: 1 Descriptive Report;

The following statistics will be submitted with the cartog-
 rapher's report on the sheet:

	Prelim Ver	Final Verification	
Number of positions on sheet	1241	1241	1241
Number of positions checked	10		136
Number of positions revised			0
Number of soundings revised (refers to depth only)	20		2
Number of soundings erroneously spaced			45
Number of signals erroneously plotted or transferred			✓
Topographic details	Time 2hr		✓
Junctions	Time 2hr		✓
Verification of soundings from graphic record	Time 4hr		4

Preliminary Verification by *R.E. Elkins* 36 hr. Date 12-23-53
 Verification by *J. B. Chambers* Total time 74... Date 6-23-53

Reviewed by *R.E. Elkins* Time 14 hr. Date 12-23-53

Addendum AR Stini - 36 hrs

DIVISION OF CHARTS
REVIEW SECTION - NAUTICAL CHART BRANCH
REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7956

FIELD NO. CO-1552

Virginia, Chesapeake Bay, Ware River and North River

Project No. CS-350

Surveyed - Sept., Oct., 1952

Scale 1:10,000

Soundings:

Control:

808 Fathometer
Pole and leadline

Sextant fixes on
shore signals

Chief of Party - John H. Brittain
Surveyed by - R. M. Borst, R. A. Parker
Protracted by - R. B. Davis
Soundings plotted by - R. B. Davis, W. W. Feazel
Preliminary Verification by - R. E. Elkins
Verified and inked by - *J.C. Chambers*
Reviewed by - R. E. Elkins 12/23/53
Inspected by - R. H. Carstens

1. Shoreline and Control

The shoreline and topographic signals are from photogrammetric shoreline compilation RS-429, RS-431, RS-433 (1952, unreviewed).

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated. The low-water curve was determined where practicable.

Except for a few irregularities and abrupt slopes off spits and along the shores, the bottom is generally smooth.

4. Junctions with Contemporary Surveys

An adequate junction was effected with H-7957 (1952) on the east. The present survey extends to shoal depths close to the shore on all other sides. The transfer of junctional soundings is deferred, pending complete verification of the present survey.

5. Comparison with Prior Surveys

H-984 (1868) 1:20,000 H-3288 (1911) 1:20,000

A comparison between the prior and present surveys reveals no appreciable differences between prior and present depths.

With the addition of several bottom characteristics from H-3288, the present survey is adequate to supersede these prior surveys within the common area.

6. Comparison with Chart 494 (Print date 3-23-53)

A. Hydrography

The charted hydrography originates principally with the prior survey, H-3288 (1911), supplemented with several soundings from a survey by the Corps of Engineers, Sp. 14706 (1913), and the earlier survey H-984 (1868). The charted depths are in general agreement with present survey depths.

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

B. Piers, Piling, Obstructions

The charted object in lat $37^{\circ}25.55'$, long. $76^{\circ}26.80'$ as well as several charted pier remains from prior topographic surveys and Coast Pilot inspection reports dating from 1905 to 1946, are not disposed of by the present survey. Old piling may possibly still exist at several of these former pier locations. It is also noted that several uncharted piling groups appearing on T-8327, T-8330 (1942-46) are not disposed of by the present survey.

C. Aids to Navigation

The charted aids are in substantial agreement with the present survey and adequately mark the features intended.

7. Condition of Survey

- a. Numerous strays appearing on the fathograms, especially in channel areas, were not labeled in the records.

The sparsity of bottom characteristics necessitated carrying forward on the present survey, numerous characteristics from the prior survey H-3288 (1911).

Thirteen piers originating with early topographic surveys, and now charted as pier remains, are not disposed of by the present survey.

- b. Preliminary inspection indicates that the smooth plotting was accurately done.
- c. The preliminary verification of this survey was confined to sounding line crossings and unnatural bottom configuration. Several lines covering the general area have been verified and inked. Completion of the verification and inking is deferred until some future date, at which time the shoreline will be checked and the inspection of the depth curves will be made.


8. Compliance with Project Instructions


This survey adequately complies with the Project Instructions, except as noted above in paragraph 7a.

9. Additional Field Work Recommended

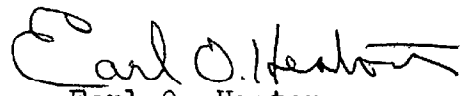
This is a good basic survey and no additional hydrographic work is requested. As a matter of record it is noted that numerous pier ruins charted from prior topographic surveys were not disposed of by the hydrographer.

Examined and approved


H. R. Edmonston
Chief, Nautical Chart Branch


H. Arnold Karo
Chief, Division of Charts


G. R. Fish
Chief, Section of Hydrography


Earl O. Heaton
Chief, Division of Coastal Surveys

TIDE NOTE FOR HYDROGRAPHIC SHEET

4 November 1953

~~Division of Hydrography and Topography~~

Division of Charts: R. H. Carstens

Plane of reference approved in
5 volumes of sounding records for

HYDROGRAPHIC SHEET 7956

Locality Chesapeake Bay, Virginia

Chief of Party: J. H. Brittain in 1952
Plane of reference is mean low water, reading
1.4 ft. on tide staff at Auburn Wharf, North River
6.6 ft. below B. M. 1 (1952)
4.6 ft. on tide staff at East River, Mobjack Bay
5.0 ft. below B. M. 1 (1952)

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

Auburn Wharf, North River = 2.5 feet

East River, Mobjack Bay = 2.4 feet

Condition of records satisfactory except as noted below:

E.C. McKay
Section of Tides

Chief, Division of Tides and Currents.

Addendum to Review

H-7956 (1952)

Inked by - J. C. Chambers
Review Addendum by - A. R. Stirni 2/15/56
Inspected by - R. H. Carstens

The verification of this survey is now complete.

Junctions with Contemporary Surveys

The junction on the south with survey H-7957 (1952), which has been given only a preliminary verification, will be considered in the review of that survey.

Comparison with Chart 494 (print date 8/22/55)

The charted hydrography originates with the present survey after preliminary verification and review. The charted piling and wrecks not shown on the present survey are from reviewed air-photographic surveys T-8327 (1942-49), T-8330 (1942-49) and aerial photographs made in 1951. All other charted information is in accord with the present survey, except that the offshore end of the pier ruins in lat. $37^{\circ} 22'$, long. $76^{\circ} 27.8'$ are not charted.

Condition of Survey

Completion of the verification reveals that the smooth plotting was carefully done.

Approved:



Chief, Chart Division

NAUTICAL CHARTS BRANCH

SURVEY NO. H-7956

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
10 Feb '54	Reconst. 494	H. Mac Ewen	Before ^{Preliminary} After Verification and Review
1954	Ex. Cov 1222	Mac Ewen	Before ^{Prelim} After Verification and Review Thru 494
1955	494	J. Shawler	Before After Verification and Review ^{See Light List} 1955 BBo 1+3
10-2-85	12221 Prototype	A. Graham	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.