

11243

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Diag. Cht Nos. 78-4 and 1222-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey PlanimetricField No. Ph-119 Office No. T-11243

LOCALITY

State VirginiaGeneral locality Chesapeake BayLocality Hungar Creek1953-55

CHIEF OF PARTY

E.H.Kirsch, Chief of Field Party
W.F.Deane, Baltimore District Officer

LIBRARY & ARCHIVES

DATE September 1961

USCOMM-DC 5087

11243

DESCRIPTIVE REPORT - DATA RECORD

①

T -11243

Project No. (II): Ph-119

Quadrangle Name (IV):

Field Office (II): Exmore, Virginia

Chief of Party: E. H. Kirsch

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: W. F. Deane

Instructions dated (II) (III): 2 July 1953
15 February 1950

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV): MHW

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): TANKARD, 1942

Lat.: 37° 24' 03.052" (94.1 m)

Long.: 75° 53' 33.309" (819.3 m)

Adjusted

~~Unadjusted~~

Plane Coordinates (IV):

State: Virginia

Zone: South

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

[illegible]

COMM-DC-57842

DESCRIPTIVE REPORT - DATA RECORD

(3)

Field Inspection by (II): Richard L. McGlinchey
Carto. Survey Aid

Date: October 1953

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): 1953 inspection on nine-lens photographs. Supplemented by: Office interpretation of photographs dated 10 March 1955

Projection and Grids ruled by (IV): Austin Riley

Date: 2/3/54

Projection and Grids checked by (IV): Austin Riley

Date: 2/5/54

Control plotted by (III): J. Steinberg

Date: 4/22/55

Control checked by (III): H. R. Rudolph

Date: 4/22/55

Radial Plot ~~of Stereoscopic~~
~~Control extension~~ by (III): E. L. Williams

Date: 4/17/56

Stereoscopic Instrument compilation (III): Planimetry

Date:

Contours

Date:

Manuscript delineated by (III): B. Wilson

Date: 7/23/57

Photogrammetric Office Review by (III): R. Glaser

Date: 8/8/57

Elevations on Manuscript
checked by (II) (III):

Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): Nine-lens & "W" C&GS cameras

(4)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
55-W-4336 thru 39	3/10/55	1410	1:10,000	0.7 above MLW
55-W-4412 thru 15	"	1449	"	0.4 " "
40322 thru 24	5/29/53	0913	"	1.4 " "
40535 thru 36	5/30/53	1341	"	0.8 " "
40557 thru 58	"	1403	"	0.6 " "

Tide (III)
From predicted tide tables

Reference Station: Hampton Roads
Subordinate Station: Nassawadox Creek
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	2.5	3.0
0.7	1.8	2.2

Washington Office Review by (IV): S.G. Blankenbaker

Date: Jan. 1961

Final Drafting by (IV): Baltimore office

Date:

Drafting verified for reproduction by (IV): S.G. Blankenbaker

Date: Jan. 1961

Proof Edit by (IV): S.G. Blankenbaker

Date: Mar. 1961

Land Area (Sq. Statute Miles) (III): 22
Shoreline (More than 200 meters to opposite shore) (III): 19 mi.
Shoreline (Less than 200 meters to opposite shore) (III): 13 mi.
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 4 Recovered: 4 Identified: 3
Number of BMs searched for (II): Recovered: Identified:
Number of Recoverable Photo Stations established (III): 1 (AZ. MK) (Planned station)
Number of Temporary Photo Hydro Stations established (III): 5

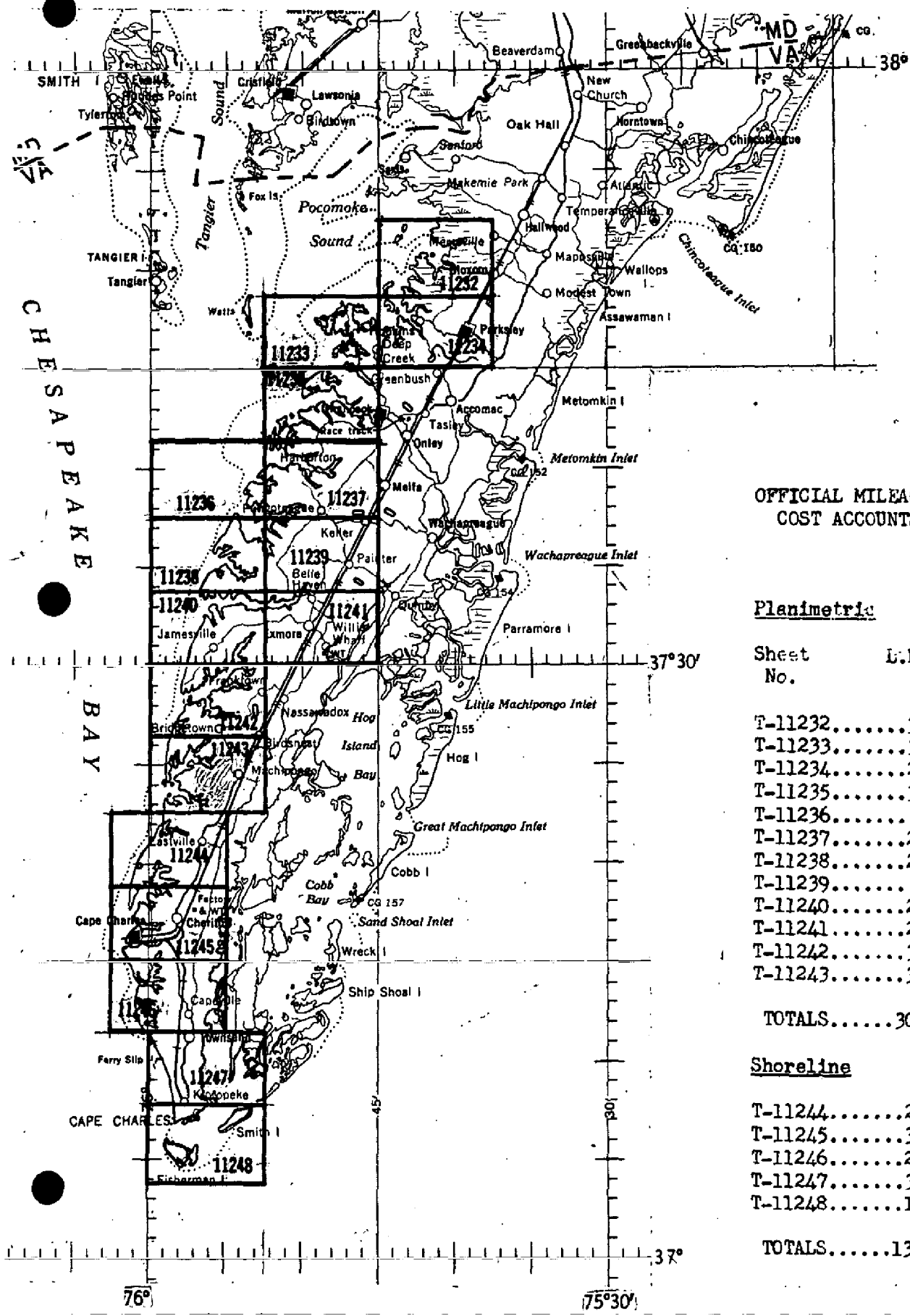
Remarks:

Number of triangulation Stations established: 5 Identified: 2
Number of Recoverable Photo Stations searched for: 14 Recovered: 7

PLANIMETRIC and SHORELINE MAPPING PROJECT PH-119

CAPE CHARLES TO POCOMOKE SOUND, VIRGINIA

(5)



OFFICIAL MILEAGE FOR COST ACCOUNTS

Planimetric

Sheet No.	L.M.S.	Sq. Miles
T-11232.....	32.....	18
T-11233.....	30.....	7
T-11234.....	20.....	26
T-11235.....	38.....	17
T-11236.....	8.....	2
T-11237.....	21.....	25
T-11238.....	25.....	9
T-11239.....	4.....	27
T-11240.....	27.....	15
T-11241.....	27.....	26
T-11242.....	39.....	19
T-11243.....	32.....	22
TOTALS.....	303.....	213

Shoreline

T-11244.....	20.....	8
T-11245.....	30.....	5
T-11246.....	27.....	5
T-11247.....	37.....	10
T-11248.....	16.....	4
TOTALS.....	130.....	32

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

T-11243 is one of seventeen 1:10,000 scale maps in Project PH-119. The project covers the eastern shore of the Chesapeake Bay in Virginia from Beasley Bay (Lat. 37° 52' 45") southerly to Cape Charles (Lat. 37° 03' 45").

The project is subdivided into two sections. Section "A" comprised of planimetric surveys T-11232 to T-11243 covers the northern part of the project. Section "B" is comprised of shoreline surveys T-11244 through T-11248.

The principal purpose of the project was to provide shoreline and control for hydrographic surveys. In addition, contour revisions were required in section "A" for the purpose of revising Bureau War Mapping Quadrangles produced for the War Department (1943). In checking contours during field inspection no changes were found over the entire area that warranted changing the original contours.*

Field work was accomplished in 1953. Radial plotting and graphic compilation were accomplished in the Baltimore Office. Nine-lens photographs taken in 1953 were used in radial plotting. The nine-lens photographs and single-lens photographs taken in 1955 were used in compilation.

Maps T-11232 through T-11237 were field edited in 1956. The remainder of the maps in the project will be registered as correct to the date of field inspection (1953).

A cronaflex positive of advance manuscript T-11243 was furnished the hydrographic survey party prior to sounding. Items registered under T-11243 will include a Descriptive Report and a positive impression on cronaflex of the scribed copy of the manuscript.

* See side heading 63 (final review report)

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T. 11243

PROJECT NO. Ph-119

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ν -COORDINATE LONGITUDE OR x -COORDINATE		DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
			°	'	FORWARD	(BACK)		FORWARD	(BACK)	
MATTA, 1898	G-5944 p. 663	N.A. 1927	37	22	50.387			1553.3	(296.4)	
			75	59	09.084			223.5	(1252.6)	
MATTA 2, 1911		"	37	22				1544.7	(305.0)	
			75	59				219.7	(1256.4)	
Sub. Pt. MATTA 2, 1911		"	37	22				1279.9	(569.8)	
			75	59				429.4	(1046.7)	
TANKARD, 1942	G-5462 p. 487	"	37	24	03.052			94.1	(1755.6)	
			75	53	33.309			819.3	(656.5)	
Sub. Point TANKARD, 1942		"	37	24				105.3	(1744.4)	
			75	53				829.0	(646.8)	
WEST POINT 2, 1910	G-1600 p. 115	"	37	23	55.609			1714.4	(135.3)	
			75	51	36.486			897.4	(578.4)	
CONTROL PT. 1	Field Comp. Form 709	"	37	23	55.609			1484.4	(39.6)	
			2,755	105.61				32.2	(1491.8)	
CONTROL PT. 2	"	"	400	297.44				90.7	(1433.3)	
			2,751	740.54				530.5	(993.5)	
CEDAR, 1953	"	"	404	596.83				1401.1	(122.9)	
			2,751	035.18				315.5	(1208.5)	
Sub. Pt. CEDAR, 1953 (CONTROL PT. 3)	"	"	403	842.72				1171.3	(352.7)	
			2,750	933.03				284.4	(1239.6)	
JOHNSON, 1953	"	"	405	961.39				293.0	(1231.0)	
			2,750	945.57				288.2	(1235.8)	
SUB. PT. JOHNSON, 1953 (CONTROL PT. 4)	"	"	406	041.67				317.5	(1206.5)	
			2,751	023.38				311.9	(1212.1)	

1 FT. = 3048006 METER

COMPUTED BY: J. Steinberg

DATE 11 March 1954

CHECKED BY: H. R. Rudolph

DATE

30 March 1955

COMM. DC-5784

SCALE FACTOR

- 2 -

COMPILATION REPORT
T-11243

The field inspection report for this survey is included in Descriptive Report, T-11241.

The radial plot report covering the area of this manuscript will be found in Descriptive Report, T-11239.

31. DELINEATION

Graphic methods were used in compiling this manuscript. The western portion of the manuscript was delineated from the 1955 single lens photographs holding to control transferred from the nine-lens photographs. The 1953 field inspection on the nine-lens photographs was used as a guide for interpretation.

The eastern portion of the manuscript, delineated entirely from the nine-lens photographs, is necessarily incomplete with regard to drainage due to the density of the foliage. Extensive field work would be required in this area to survey drainage, much of which may be indefinite.

32. CONTROL

There was adequate control for satisfactory compilation.

33. SUPPLEMENTAL DATA

Pennsylvania Railroad Track Chart - used to determine recent track removals. (Track chart submitted with records for T-11242).

34. CONTOURS AND DRAINAGE

Contours: None.

Drainage: Discussed under Item 31.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection of 1953 was used only as a guide to interpret the changed shoreline as it appears on the 1955 photographs.

Low water, shoal lines and foreshore details were also delineated from office interpretation of the newer photographs.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

Form 567 is being submitted for four (4) aids to navigation.

38. CONTROL FOR FUTURE SURVEYS

Forms 524 are being submitted for fourteen (14) previously established Recoverable Photo Stations with corrected positions for seven (7) which were recovered.

Form 524 is also being submitted for TANKARD AZ. MK.

A list of Recoverable Photo Stations and Photo-Hydro Stations applicable to this survey will be found under item 49.

39. JUNCTIONS

To the north (T-11242) - In agreement.

To the south (T-11244, westward from 75° 55') - In agreement.

To the south (eastward from 75° 55' - No contemporary survey. (see final review report)

To the east - No contemporary survey. (see final review report)

To the west - All water area.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 thru 45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with the A.M.S. Franktown, Virginia quadrangle, scale 1:25,000 dated 1949.

47. COMPARISON WITH NAUTICAL CHARTS

The manuscript has been compared with Chart 1222, scale 1:80,000, published 1954 and corrected to 8/30/54 and Chart 1223, scale 1:80,000, published 1943 and corrected to 8/23/54.

Items to be applied to nautical charts immediately: See Form 567 dated 9 August 1957 for new positions of the Mattawoman Creek lights.

Items to be carried forward: None.

Respectfully submitted
9 August 1957

Bernice Wilson

Bernice Wilson
Carto. Photo. Aid

Approved and forwarded

William F. Deane
William F. Deane,
CDR C&GS
Baltimore District Officer

T-11243

49. NOTES FOR THE HYDROGRAPHER

Topographic stations recovered and established are:

OAK GROVE WINDMILL	(1942)	1953
JOHNSONTOWN METHODIST CH. SPIRE	(1942)	1953
MINICHS DOCK	(1942)	1953
CUPOLA	"	"
BASE	"	"
WET	"	"
HIT	"	"
TANKARD AZ. MK.	"	"

The following are the photo-hydro stations located on this manuscript:

- * ABLE - Northeast corner of wharf.
- * DECK - Northeast gable, boathouse.
- RAKE - Chimney center unpainted house.
- * MUCK - Offshore end of pier, center.
- STEEL - South gable, stainless steel roof of oysterhouse.

* These photo-hydro stations were identified in the field (1953).
~~We had a brief~~ Brief descriptions included on the field photographs.

(Comparison between 1953 and 1955 photos indicates that oysterhouse has been rebuilt).

* STATIONS RECOVERED IN 1959 (524 cards submitted)

8-9-57

Form T-2

13

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11243

1. Projection and grids ☒ 2. Title ☒ 3. Manuscript numbers ☒ 4. Manuscript size ☒

CONTROL STATIONS

4a. Classification label ☒

5. Horizontal control stations of third-order or higher accuracy ☒ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ☒ 7. Photo hydro stations ☒ 8. Bench marks ☒
9. Plotting of ^{Theod.} ~~sixtent~~ fixes ☒ 10. Photogrammetric plot report ☒ 11. Detail points ☒

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ☒ 13. Low-water line ☒ 14. Reefs, shoals, etc. ☒ 15. Bridges ☒ 16. Aids to navigation ☒ 17. Landmarks ☒ 18. Other alongshore physical features ☒ 19. Other along-shore cultural features ☒

PHYSICAL FEATURES

20. Water features ☒ 21. Natural ground cover ☒ 22. ~~Planetable contours~~ ☒ 23. ~~Stereoscopic instrument contours~~ ☒ 24. ~~Contours in general~~ ☒ 25. ~~Spot elevations~~ ☒ 26. Other physical features ☒

CULTURAL FEATURES

27. Roads ☒ 28. Buildings ☒ 29. Railroads ☒ 30. Other cultural features ☒

BOUNDARIES

31. ~~Boundary lines~~ ☒ 32. ~~Public land lines~~ ☒

MISCELLANEOUS

33. Geographic names ☒ 34. Junctions ☒ 35. Legibility of the manuscript ☒ 36. ~~Discrepancy overlay~~ ☒ 37. Descriptive Report ☒ 38. Field inspection photographs ☒ 39. Forms ☒
40. R. Glaser Joseph Steinberg
Reviewer Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler_____
Supervisor

43. Remarks:

M-2623-12

GEOGRAPHIC NAME LIST

Barlow Creek

*Chesapeake Bay
Church Neck

Great Neck

Holt Creek
Holt Neck
Honeymoon Island
*Hungar CreekJacobus Creek
Jacobus Point
*JohnsontownMachipongo
Martins Siding
Masden Gut
Mattawoman Creek

Old Town Neck

Paraplane Cove
Pennsylvania R.R.


Reedtown

Shadyside
Sparrow PointTaylor Wharf
Treherneville

Vaucluse Point

Waterford Point
Wilsonia Neck

* B.G.N. Decision


GEOGRAPHIC NAMES SECTION
10 SEPTEMBER 1960

63. Comparison with Maps of Other Agencies:

Franktown, Va. (AMS) 1:25,000 1943

This quadrangle was produced by the Coast and Geodetic Survey for the War Department. Natural and cultural changes that occurred during the time between the surveys have outdated the quadrangle. The maps are in good agreement overall in horizontal position of common details.

The results of field work in connection with project requirements for contour corrections for revision of the War Department quadrangles are discussed in the "Summary" of this report. There are differences in woodland and swamp areas. Contours would have to be changed for agreement with drainage on T-11243. Field inspection of drainage and swamps was incomplete on T-11243. Inadequacies in the field inspection of drainage is discussed under side heading 31 of the Compilation Report.

64. Comparison with Contemporary Hydrographic Surveys:

H-8506 1:10,000 1959

T-11243 was compared with the unverified smooth sheet. Shoreline and control for H-8506 was transferred from blue line prints of Advance Manuscripts T-11243 and T-11244 to the boat sheet prior to sounding.

No corrections affecting the hydrographic survey were made during final review of T-11243. Existing shoreline differences are due to shoreline changes that occurred during the time between the surveys. (Referred to under side heading 61 of this report). Shoal areas and shallow lines shown on T-11243 were delineated from office inspected photographs taken at a height of tide of approximately 0.5 ft. above MLW.

65. Comparison with Nautical Charts:

1223 1:80,000 6th Edition 7-25-60

There are minor differences between the manuscript and chart.

66. Adequacy of Results and Future Surveys:

This map meets Bureau requirements for shoreline mapping. With the exception of inadequacies in the delineation of drainage in wooded areas (discussed under side heading 63 of this report) the map meets the National Standards of Map Accuracy. Most of the drainage in wooded areas is shown as unsurveyed on the map. Additional field work to survey the drainage is not warranted.

67. Junctions:

The following junctions checked during final review are good considering the differences in scale and date between this survey and the War Mapping quadrangles.

- (1) To the east - Nassawadox, Va. - 1:25,000
- (1) To the south - (eastward from 75°55') - Cheriton, Va.,
1:25,000

68. Overhead Power Cable Clearances:

Mattawoman Creek
East Cable - 29 ft. MHW
West Cable - 38 ft. MHW

The existence of the cables was checked by the hydrographic survey party in 1959. The clearances were not checked.

Reviewed by:

S. G. Blankenbaker
S. G. Blankenbaker

Approved by:

L. C. Rude
Chief, Review & Drafting Section
Photogrammetry Division

J. E. Waugh 10/10/61
Chief, Nautical Chart
Division

L. J. Woodward
Asst. Chief, Photogrammetry Division

J. Bowie
Chief, Operations Division

STRIKE OUT ONE

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Baltimore, Maryland

The positions given have been checked after listing by

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *floating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

NAUTICAL CHARTS BRANCH

SURVEY NO. T11243

Record of Application to Charts

[illegible]

M.2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.