

11237

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11237

Form 504
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
Type of Survey <u>Planimetric</u>
Field No. <u>PH-119</u> Office No. <u>T-11237</u>
LOCALITY
State <u>Virginia</u>
General locality <u>Chesapeake Bay</u>
Locality <u>Pungoteague Creek</u>
<u>19 53</u>
CHIEF OF PARTY
E. H. Kirsch, Chief of Field Party
E. H. Kirsch, Baltimore Dist. Officer
LIBRARY & ARCHIVES
DATE

DATA RECORD

T- 11237

Project No. (II): **6119 PH-119** Quadrangle Name (IV):

Field Office (II): **Exmore, Va.**

Chief of Party: **J. C. Sammons
E. H. Kirsch**

Photogrammetric Office (III): **Baltimore, Md.**

Officer-in-Charge: **E. H. Kirsch**

Instructions dated (II) (III): **2 July 1953
15 February 1956**

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): **6-22-56** Date reported to Nautical Chart Branch (IV): **7-10-56**

Applied to Chart No.

Date:

Date registered (IV): **6/28/61**

Publication Scale (IV):

Publication date (IV):

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): **MELFA, 1942**

Lat.: **37° 39' 00.612" (18.9 m)** Long.: **75° 44' 37.045" (908.1 m)**

Adjusted

~~Uncorrected~~

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.

Not Applicable

Areas contoured by various personnel
(Show name within area)
(II) (III)

DATA RECORD

3

Field Inspection by (II): **Richard L. McGlinchey**

Date: **October 1953**

Planetable contouring by (II):

Date:

Completion Surveys by (II): **C.H. DAVIES**

Date: **SEPT 1956**

Mean High Water Location (III) (State date and method of location): **1955 date of photography**

Projection and Grids ruled by (IV): **A. Riley**

Date: **1/29/54**

Projection and Grids checked by (IV): **A. Riley**

Date: **2/2/54**

Control plotted by (III): **J. J. Schleupner**

Date: **3/14/55**

Control checked by (III): **J. Steinberg**

Date: **3/14/55**

Radial Plot ~~on Stereoscopic~~

~~Photo extension~~ by (III): **H. R. Rudolph**

Date: **9/9/55**

Stereoscopic Instrument compilation (III):

Planimetry

Date:

Contours

Date:

Manuscript delineated by (III): **J. B. Phillips**

Date: **5/22/56**

Photogrammetric Office Review by (III): **R. Glaser**

Date: **6/8/56**

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

Date:

Camera (kind or source) (III): U.S.C. & G. S. nine-lens and single lens camera "W" (4)

Number	Date	Time	Scale	Stage of Tide
40585 - 40587	5/30/53	1437	1:10,000	1.0' above MLW
40333 - 40334	5/29/53	0921	"	1.1" " "
40523 - 40526	5/30/53	1343	"	1.3' " "
40484 - 40486	5/30/53	1254	"	1.4' " "
55-W-4388 - 4390	3/10/55	1434	"	1.1' " "
55-W-4352 - 4355	"	1416	"	1.2' " "
55-W-4428 - 4431	"	1455	"	0.9' " "

Tide (III)
From Predicted Tables

Reference Station: Hampton Roads
Subordinate Station: Pungoteague Creek
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	2.5	3.0
0.7	1.7	2.0

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

Date: May, 1961

Final Drafting by (IV): Baltimore office

Date: 1958

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

Date: May, 1961

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 25 sq. miles

Shoreline (More than 200 meters to opposite shore) (III): 21 miles

Shoreline (Less than 200 meters to opposite shore) (III): 12 miles

Control Leveling - Miles (II): 0

Number of Triangulation Stations searched for (II): 5 Recovered: 2*

Identified: 2

Number of BMs searched for (II): 0

Recovered: 0

Identified: 0

Number of Recoverable Photo Stations established (III): 1**

Number of Temporary Photo Hydro Stations established (III): 6

No. of Recoverable Topographic Stations searched for: 11.

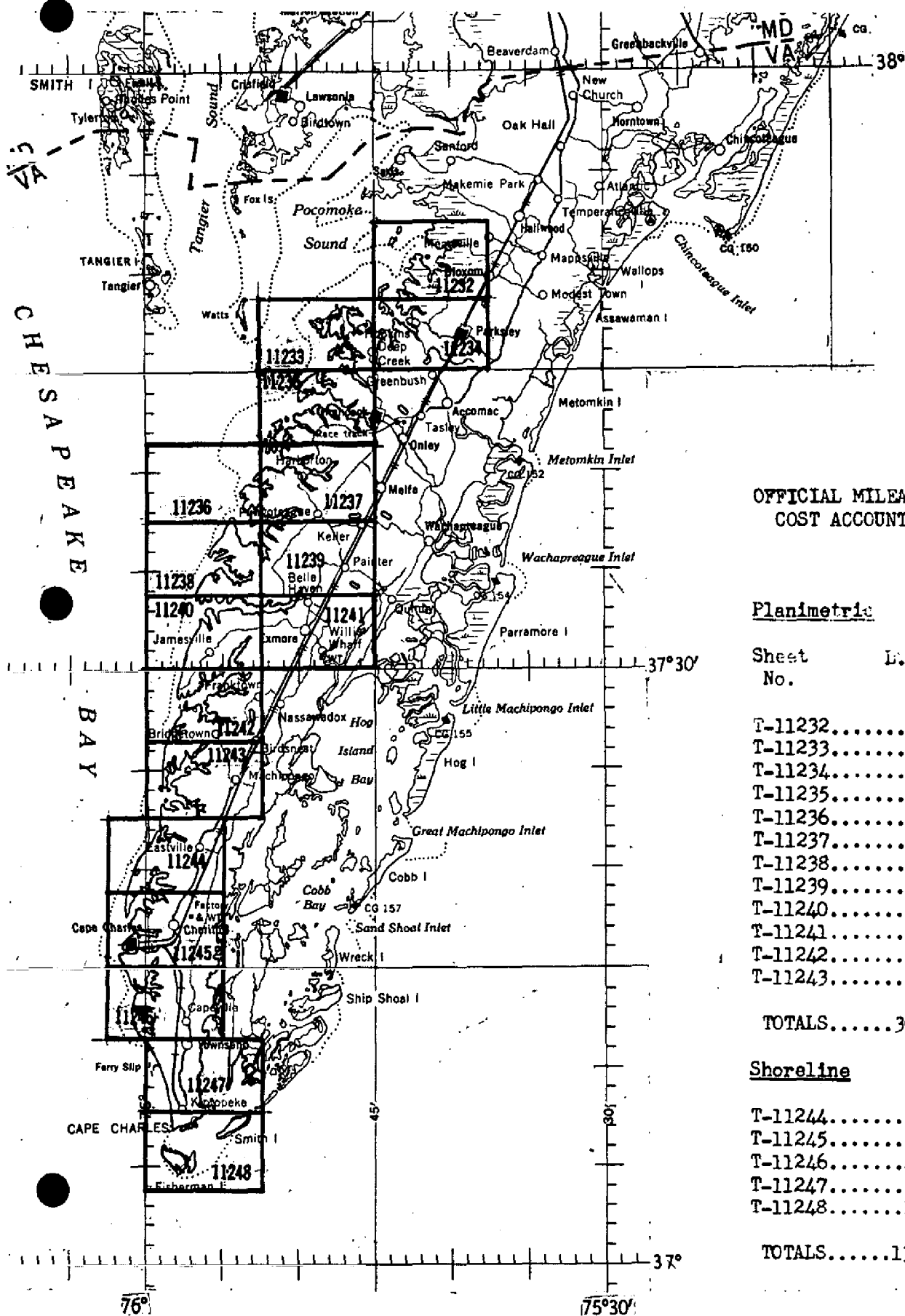
Remarks: Recovered: 5.

* These are off the east margin of the survey.

** In addition, Form 524 is submitted for MELFA AZ. MK.

PLANIMETRIC and SHORELINE MAPPING PROJECT PH-119

CAPE CHARLES TO POCOMOKE SOUND, VIRGINIA



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-11237 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-11237 was furnished the hydrographic survey party prior to sounding. Items registered under T-11237 will include a Descriptive Report and a positive impression on cronar of the scribed copy of the manuscript.

SCALE FACTOR

1 FT - 304800\$ MEYER

CHECKED BY: **H. R. Rudolph**

25 February 1955

COMPILATION REPORT
T-11237

Field Inspection Report: The Field Inspection Report is part of the Descriptive Report for Survey T-11239.

Photogrammetric Plot Report: The Photogrammetric Plot Report is part of the Descriptive Report for Survey T-11232.

31. DELINEATION

This manuscript was compiled by graphic methods in accordance with method (1) of the general instructions dated 11 January 1956.

1955 ratioed single lens photographs were available for the greater portion of the manuscript. These photographs were used for delineation, using the 1953 field inspection photographs as a guide for interpretation. There were changes since the 1953 photography.

32. CONTROL

Refer to Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

AMS Pungoteague, Va. quadrangle as annotated by the field party was used for Geographic Names. The Norfolk Sectional Aeronautical Chart used for information on flight strip shown on SE corner of manuscript.

The Virginia highway map, Accomack County, dated 1952, was used for primary highways and numbers.

34. CONTOURS AND DRAINAGE

Contours - inapplicable.

Drainage: Field inspection of perennial drainage was not complete. The Pungoteague quadrangle shows an extensive pattern of intermittent streams, some of which should not be mapped under present standards. Many ditches, especially along the eastern edge of the manuscript, were omitted due to inability to connect them to drainage. Several drains were shown as "unsurveyed" in wooded areas where the stream was not visible.

The delineation of the swamp areas is based on the appearance of the tree cover on the single lens photographs where such coverage exists. Verification by field edit is considered necessary. Refer to paragraph 6 of the field report. Refer to side heading No. 52 - FIELD EDIT REPORT.

35. SHORELINE AND ALONGSHORE DETAILS

Shallow lines shown were based on office interpretation.

Extremely narrow fringes of marsh have been indicated by the field party. Many of these marsh areas have been omitted due to the inability to show them without exaggerating the size of the area.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

Form 567 is being submitted for six (6) aids to navigation.

38. CONTROL FOR FUTURE SURVEYS

Forms 524 are being submitted for one recoverable topographic station established; five stations recovered and six lost. See paragraph 49.

Discrepancies of as much as 25 meters were noted in the positions of the recovered stations compared with the previous positions.

Station MELFA AZ. MK (1942) 1953 is east of this manuscript in an area of no contemporary survey. Form 524 for this AZ. MK. is being submitted for this survey.

Six photo-hydro stations are shown on the manuscript (See paragraph 49).

39. JUNCTIONS

Junctions have been made and are in agreement to the north with T-11235, to the west with T-11236, and to the south with T-11239. There is no contemporary survey to the east. Junction with bureau survey T-8441 (1942) is considered to be fair. *Va, 1957 is satisfactory* Junction with USGS Quad Accomac,

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. - 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

This manuscript has been compared with the A.M.S. Pungoteague, Va. quadrangle, scale 1:25,000, edition of 1948, which is based on Bureau Survey T-8169 (1942) scale 1:20,000. Small differences in position of details were noted over the area of this manuscript. (See also paragraph 38.) This probably is due to better quality of present photography and the larger scale of the manuscript and photography.

47. COMPARISON WITH NAUTICAL CHARTS

This manuscript has been compared with Chart 1223, scale 1:80,000 published 1943, corrected to 8/20/54.

Items to be applied to Nautical Charts immediately:

None.

Items to be carried forward:

None.

Respectfully submitted
22 May 1956

Jacqueline B. Phillips

Jacqueline B. Phillips,
Carto. Photo. Aid

Approved and Forwarded

E. H. Kirsch

E. H. Kirsch,
Capt. C&GS
Baltimore District Officer

49. NOTES FOR THE HYDROGRAPHER

Seven recoverable topographic stations are shown on this manuscript, and are listed as follows:

✓ MILL (1942), 1953	✓ NANDUA, 1942
✓ GRIT (1942), 1953	✓ FORT, 1953
✓ PIN (1942), 1953	✓ *BEND, 1942
✓ SCAR (1942), 1953	

CANE (1942) 1956

Three 1942 recoverable topographic stations, CANE, CABIN and BRICK were reported not recovered, but office investigation reveals that they may still exist. Their existence should be verified during hydrography.

Six photo-hydro stations are shown on this manuscript, and are listed as follows:

✓ SACK	✓ DOLL
✓ FACE	✓ AVON
✓ ERIC	✓ CALM**

*Topographic station BEND, 1942 was not recovered, but is believed to be intact and recoverable by plane table methods. Its existence should be verified, if practicable. Recovered in 1956 - Not identified

**The photo-hydro CALM is believed to be destroyed. The pier on which this station was located does not appear on the 1955 single-lens photograph. This station should be investigated since piling or ruins may be present and sufficient for use as a photo-hydro. THE CONTEMPORARY HYDROGRAPHIC SURVEY DID NOT EXTEND TO THIS AREA. THE STATION WAS REMOVED FROM THE MANUSCRIPT DURING FINAL REVIEW.

TOPOGRAPHIC STATIONS: See the final review report - Paragraph No. 67. Recovered in 1956 (Not identified). The Discrepancy Report indicated the station was recovered in 1956 & a 524 form submitted. The card could not be found during final review. The 1942 Position should be used with Caution. Discrepancies of as much as 25 meters were noted in the positions of recovered station (1953 positions) compared with the previous positions.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11237

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

CONTROL STATIONS

1a. 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. Angles} ~~sexangle lines~~ ☒ 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. Stereoscope 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)

6/1/57

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.

F. M. Wisieki Supervisor
Compiler

43. Remarks:

Field Edit Report
T-11237, Project 25050
E.H. Kirsch, Chief of Party

51. Method. - This planimetric map was field edited by riding over all roads to check their classification, to classify buildings and to examine areas questioned by the compiler.

AAA additions, corrections and deletions were made either on the discrepancy print or the field edit sheet and cross referenced to the photographs. The road classifications are shown by various colors; a legend of the color scheme used is shown on the field edit sheet.

Field edit information is shown on nine-lens photographs Nos. 40484 through 40486 and single-lens ratio photographs Nos. 55-W-4353 through 4355, 4391, 4429 through 4431. The ratio photographs should be considered part of the field photography for this project. The field edit notes on the nine-lens field photographs are in purple to distinguish them from the original field inspection.

52. Accuracy of Compilation. - A large area was cleared of trees since the 1951 photography between $37^{\circ} 41' - 37^{\circ} 40' 30''$ latitude, $75^{\circ} 45' - 75^{\circ} 45' 30''$ long. This clearing was mapped by planetable methods on the discrepancy print.

The borrow pits northeast of Bobtown were misinterpreted on the photographs. The three areas indicated as borrow pits are either fills or tree cleared areas.

The swamps were investigated in numerous localities. By aid of the photographic tones, a stereoscope and the investigations into the swamp areas, the swamp outlines were delineated on the field photographs.

Number one buildings with no access roads are houses which are unoccupied and the fields surrounding them are in cultivation. These houses are used by tenant farmers and occupancy varies from year to year.

53. Map Accuracy. - No horizontal or vertical accuracy test was made on the map.

54. Recommendations - None

55. Examination of proof copy - Several fishermen examined a field edit copy of T-11237. There are no additions or changes in the geographic names.

Respectfully submitted,
Charles H. Davies
Charles H. Davies

APPROVED AND FORWARDED
E. H. Kirsch
E. H. Kirsch, CAPTAIN, C&GS
Chief of Party

REVIEW REPORT
PLANIMETRIC SURVEY T-11237
May 1961

61. General Statement

A horizontal accuracy check was made in 1961 of mapped details of a part of each of four maps (T-11236; T-11237; T-11238; T-11249) of this project. The test area was Nandua Creek and vicinity. Map details common to the subject project manuscripts and T-8013 (1949) were used as check points by the field party. The 1949 survey was a special graphic compilation accomplished for the purpose of providing shoreline of Nandua Creek for contemporary Hydrographic Survey No. 7680 (1949). Graphic Control Survey T-7106 (1949) provided most of the control for the radial plot for T-8013.

The four maps in project PH-119 meet Bureau horizontal accuracy requirements. T-8013 does not meet the requirements. Test survey data is included in the Project Completion Report (PH-119).

62. Comparison with Registered Topographic Surveys

308	1:20,000	1850	8169	1:20,000	1942
307	"	1850	7106	1:10,000	1948
868	"	1862	8013	1:10,000	1949
2654	"	1903-04			

T-11237 supersedes the prior Bureau Surveys for nautical charting purposes in common areas.

63. Comparison with Maps of Other Agencies

Pungoteague, Va.	AMS	1:25,000	1942
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The quadrangle was based on Bureau Survey T-8169. Differences exist between T-11237 and the quadrangle in position of common details. These discrepancies are probably due to small compilation errors in T-8169 and as noted in side heading 46 (Compilation Report) the better quality and larger scale of the more recent photography. Discrepancies between the surveys in topographic station positions are discussed under side heading 67 of this report.

64. Comparison with Contemporary Hydrographic Surveys

H-8445 1:10,000 1957-58

Hydrographic survey boat sheet shoreline was transferred from blue line prints of Advance Manuscripts T-11235, T-11236, and T-11237 prior to sounding. T-11237 was compared with the verified smooth sheet. No corrections affecting the hydrographic survey were made during final review of T-11237.

H-7680 1:10,000 1948

There was no contemporary hydrographic survey in the area (Nandua Creek) covered by H-7680. Comparison of T-11237 with this hydrographic survey is discussed under side heading 61 of this report.

65. Comparison with Nautical Charts

1223 1:80,000 6th Ed. 2/25/60

There are no significant differences between the chart and planimetric survey.

66. Adequacy of Results and Future Surveys

This map complies with the National Standards of Map Accuracy and Bureau requirements.

67. Topographic Stations

There are discrepancies between this survey and T-8169 (1942) of as much as 25 meters in the positions of recoverable topographic stations. The positions established by T-11237 are considered more reliable due to the larger scale of the photography and larger compilation scale.

Bend, 1942 was recovered (not identified) in 1956. The 1942 position (on T-11237) is possibly inaccurate.

Reviewed by:

S. G. Blankenbaker
S. G. Blankenbaker

16

9

Approved by:

L. C. Lande
Chief, Review and Drafting Sec.
Photogrammetry Division

J. E. Waugh
Chief, Nautical Charts Div.
10/5/61

for L. F. Woodcock
Chief, Photogrammetry Division

J. Bowie
Chief, Operations Division

GEOGRAPHIC NAME LIST

Bluff Point
Bobtown
Boggs Wharf
Buckland Gut
Bull Branch
*Butcher Creek
Coocheyville
Crockett Town
Dahl Swamp
Dinglers Mill
Evans Wharf
Finneys Island
*Hacks Neck
Hacksneck (town)
Hancock Gut
Harborton
Hollies Church Branch
Horse Hole Creek
Keller
Killmontown Area
Klondike Point
Kusian Cove
Little Hell
Locksville
Moore Branch
Mount Nebo
Nandua
*Nandua Creek
Pennsylvania R.R.
*Fungoteague
*Fungoteague Creek
Savageville
Scarborough Island
Sluitkill Neck
Smithville
Taylor Creek
*Underhill Creek
Warehouse Point
Warehouse Frong
Warehouse Wharf
West Point
Yeo Neck

* B.G.N. Decision

George S. Bae
GEOGRAPHIC NAMES SECTION
20 SEPTEMBER 1960

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE CHARTED

STRIKE OUT ONE

Baltimore, Maryland
12 June 1956

I recommend that the following objects which have ~~(not been)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(delete)~~ the charts indicated.

The positions given have been checked after listing by

R. Glaser

E. H. Kirsch
Chief of Party.

VIRGINIA

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating 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.

* TABULATE SECONDS AND METERS

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11237

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.