

11236



Diag. Cht. No. 78-4.

| | |
|---|--------------------|
| Form 504 | |
| U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY | |
| DESCRIPTIVE REPORT | |
| Type of Survey | Planimetric |
| Field No. Ph-119 | Office No. T-11236 |
| LOCALITY | |
| State | Virginia |
| General locality | Chesapeake Bay |
| Locality | Nandua Creek |
| <u>19 53-55</u> | |
| CHIEF OF PARTY | |
| E.H.Kirsch, Chief of Field Party | |
| J. C. Sammons, Chief of Field Party | |
| E.H.Kirsch, Balto. District Officer | |
| LIBRARY & ARCHIVES | |
| DATE | September 1961 |

USCOMM-DC 5087

11236

DATA RECORD

①

T - 11236

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

Field Office (II): Exmore, Virginia

Chief of Party: J. C. Sammons

E. H. Kirsch

Photogrammetric Office (III): Baltimore, Maryland

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): 5-7-56 Date reported to Nautical Chart Branch (IV): 5-14-56

Applied to Chart No.

Date:

Date registered (IV):

6/28/64

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 (S) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): PUNGOTEAGUE CR. BEACON, 1911

Lat.: 37° 39' 17.609" (1467.8 m) Long.: 75° 53' 53.668" (1315.4 m)

Adjusted
Elevations

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.

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DATA RECORD

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

Date: October 1953

Planetable contouring by (II):

Date:

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

Date: 1956

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

Projection and Grids ruled by (IV): J. Thuna

Date: 1/28/54

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

Date: 2/2/54

Control plotted by (III): J. J. Schlepner

Date: 3/14/55

Control checked by (III): J. Steinberg

Date: 3/15/55

Radial Plot ~~on Stereoscopic~~
~~Control extension~~ by (III): H. R. Rudolph

Date: 9/9/55

Stereoscopic Instrument compilation (III):
Planimetry
Contours

Date:

Date:

Manuscript delineated by (III): B. Wilson

Date: 1/13/56

Photogrammetric Office Review by (III): R. Glaser

Date: 5/3/56

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

Date:

Camera (kind or source) (III): USC&GS nine-lens and single-lens camera "W"

| Number | Date | PHOTOGRAPHS (III) | | | Stage of Tide |
|---------------------|---------|-------------------|----------|----------------|---------------|
| | | Time | Scale | | |
| 40331 thru 40334 | 5/29/53 | 0920 | 1:10,000 | 1.1' above MLW | |
| 55-W-4389 thru 4393 | 3/10/55 | 1434 | 1:10,000 | 1.1' " " | |

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 |
| | 1.7 | 2.0 |
| | | |

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

Date: May, 1961

Final Drafting by (IV): Baltimore Office

Date:

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

Date: May, 1961

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 2

Shoreline (More than 200 meters to opposite shore) (III): 5.8 miles

Shoreline (Less than 200 meters to opposite shore) (III): 3

Control Leveling - Miles (II): 0

Number of Triangulation Stations searched for (II): 3

Recovered: 2

Identified: 2

Number of BMs searched for (II): 0

Recovered: 0

Identified: 0

Number of Recoverable Photo Stations established (III):

2 (1) AMOS

Number of Temporary Photo Hydro Stations established (III): 1

GABLE

Number of Recoverable Topographic Stations, searched for: 6

Recovered: 1 (U.S.E. station)

Remarks:

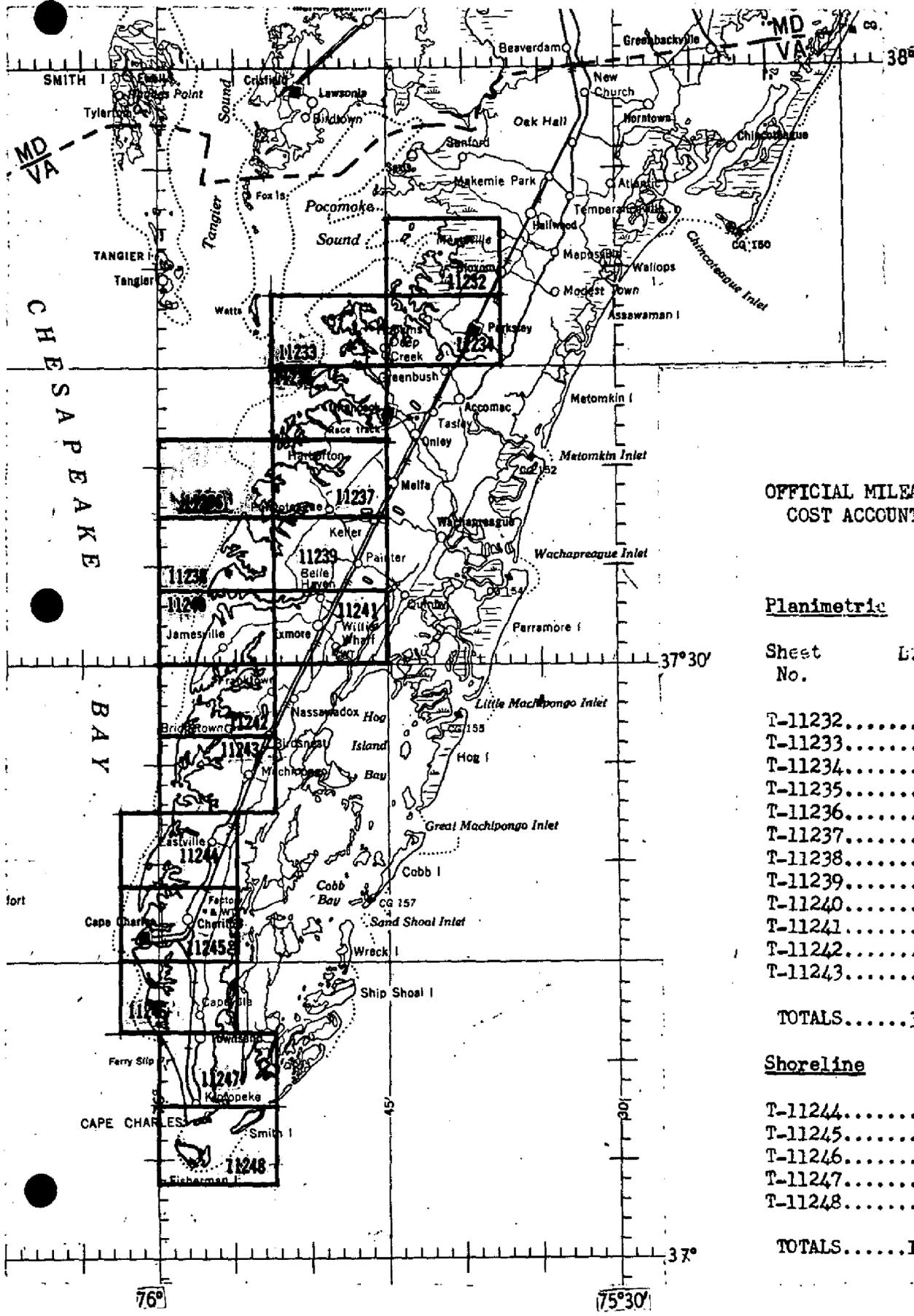
STATION (No 1-USE)

DESTROYED - 524 form (1958)

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. Mi. |
|--------------------|-----------------|------------|
| 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-11236 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-11236 was furnished the hydrographic survey party prior to sounding. Items registered under T-11236 will include a Descriptive Report and a positive impression on cronaflex of the scribed copy of the manuscript.

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COMPILATION REPORT

T-11236

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 delineated by graphic methods in accordance with method I of the general instructions dated 11 January 1956. All delineation was done from the 1955 single lens photographs.

32. CONTROL

Refer to the Photogrammetric Plot Report.

A copy of the letter to the field party, dated 16 July 1953, regarding the identity of PUNGOTEAGUE CREEK BEACON, 1911 and Pungoteague Creek Entrance Light is attached to this report.

33. SUPPLEMENTAL DATA

The U.S.G.S. Nandua Creek quadrangle was used for geographic names.

34. CONTOURS AND DRAINAGE

Contours: Inapplicable.
Drainage: No comment.

35. SHORELINE AND ALONGSHORE DETAILS

The entire shoreline was compiled from the 1955 single lens photographs. Due to changes that have occurred, the shoreline inspection on the 1953 nine-lens photographs was disregarded.

Approximate low water lines and shallow lines were delineated by office interpretation.

36. OFFSHORE DETAILS

The islands shown on Chart 1223 as South Marsh and Middle Marsh could not be definitely interpreted on the photographs.

37. LANDMARKS AND AIDS

Form 567 is being submitted for three aids to navigation.

38. CONTROL FOR FUTURE SURVEYS

One photo-hydro station was located on the manuscript. See paragraph 49.

Forms 524 are being submitted for two recoverable topographic stations established, and five not recovered.

39. JUNCTIONS

Junctions have been made with surveys T-11237 to the east and T-11238 to the south. To the north and west are all water areas and no contemporary surveys.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report.

41 - 45 Not applicable.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with Bureau survey T-8013 (1949) scale 1:10,000.

Comparison was also made with the U.S.G.S. Nandua Creek quadrangle, scale 1:24,000, edition of 1952, which was based on Bureau Survey T-8170 (1942) scale 1:20,000.

47. COMPARISON WITH NAUTICAL CHARTS

Chart 1223, scale 1:80,000 published July 1943, corrected to 12/22/52.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: Existence of South Marsh and Middle Marsh to be verified before being carried forward.

Respectfully submitted
13 January 1956.

Bernice Wilson
Bernice Wilson
Carto. Photo. Aid.

Approved and forwarded

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

49. NOTES FOR THE HYDROGRAPHER

The following are the recoverable topographic stations located on the manuscript:

AMOS, 1953
 NG-1 (USE) (1948) 1953 DESTROYED (1958-524 form)

The following is the photo-hydro station located on the manuscript:

GABLE CORN photograph 40332 - S. Gable, green roof, fish house.

The position of Nandua Creek Light should be verified. It was located in 1953 by triangulation methods but was destroyed and rebuilt in 1954.
 *Relocated during field edit (Refer to FIELD EDIT REPORT)
 (See Notices to Mariners, No. 42, Oct. 16, 1954 and No. 49, Dec. 4, 1954.)

No features could be delineated for South Marsh and Middle Marsh, which appear on Chart 1223. Woody Island to the north also could not be found on the photographs.

T-11236

NOTE TO REVIEWER

A recovery card, Form 524, for PUNGOTEAGUE LIGHT (PUNGOTEAGUE CREEK LIGHT) 1942 was submitted by the field party because of the Form 524 prepared in 1942. It is recommended that these Forms 524 be destroyed to prevent confusion. This aid to navigation is the same as triangulation station PUNGOTEAGUE BEACON, 1911. The present light list name is Fungoteague Creek Entrance Light. Refer to the attached letter.

A recovery card, Form 524, for Pungoteague Beacon (Hack Neck Shoal Light) 1942 was submitted by the field party because of the Form 524 prepared in 1942. The name has since been changed to Pungoteague Creek Channel Light. It is recommended that these forms be destroyed to prevent confusion of names and because Form 524 is not necessary for aids to navigation.

(13)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Southeastern District Headquarters
Room 418, U. S. Post Office Bldg.,
Norfolk 10, Virginia

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

16 July 1953

EXPRESS ADDRESS:

To: Mr. Richard L. McGlinchey
U. S. Coast and Geodetic Survey
c/o General Delivery
Exmore, Virginia

Subject: Pungoteague Creek Light.

The light that you mentioned is that listed as Light No. 2825 in the Local Light List, Atlantic Coast Volume 3, 1953. Its name is Pungoteague Creek Entrance Light and is described as being in 9-feet of water, the light 17-feet above the water, small black house on cylindrical pier. The date of establishment, as given in the Light List, was 1908.

I have checked with the Coast Guard here in Norfolk. Their records only go back to 1925 and show no change in the structure during the intervening years or record of rebuilding. The light itself was changed from oil burning to acetylene.

I have also looked into our triangulation records and find that there is no description or any other location since 1911. I do note, however, that a station BUTCH 2 was established in 1914 and that station HER was recovered in 1942, although in poor condition. It may be that at that time some check was made of the position of the light in question, you might inquire further from the Washington Office.

From the forgoing data, it would appear, however, that Pungoteague Creek Beacon and Pungoteague Entrance Light are identical.

/s/ Earle A. Deily,
Captain, USC&GS
Supervisor, SE Dist.

EAD:k

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PHOTOGRAMMETRIC OFFICE REVIEW

T-11236

- 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 ~~contour lines~~ ^{Theod. cuts}
- 10. Photogrammetric plot report
- 11. Detail points

ALONGSHORE AREAS

(Nautical Chart Data)

- 12. Shoreline
- 13. Low-water line
- 14. Rocks, 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 Reviewer Joseph Steinberg Supervisor, Review Section of 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:

Field Edit Report
T-11236, Project 25050
E. H. Kirsch, Chief of Party

51. Methods.- 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. This shoreline was checked from a skiff.

All additions, corrections and deletions were made either on the field edit sheet or discrepancy print 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 photograph No. 40332 and single-lens ratio photograph No. 55-W-4391. This ratio photograph should be considered part of the field photography for this project. Field edit notes on the nine-lens photograph are in purple to distinguish them for the original field inspection.

52. Adequacy of compilation.- Nandua Creek Channel Lt. No. 1, 1953 was relocated by ground and photogrammetric methods. Topographic station AMOS, 1953, topographic station Ecc DART, 1953 (T-11238) and two photo-points W and X were occupied and angles turned from Fungoteague Creek Beacon, 1911 to Nandua Creek Channel Lt. No. 1. Observations are submitted in Form 250, Vol. 1-1, 1956 (T-11236). Forms 152 have been submitted for photo-points W and X.

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

54. Recommendations.- Nandua Creek Channel Lt. No. 1, 1953 should be located by triangulation methods when the hydrographic party reaches this area.

55. Examination of proof copy.- Several fishermen examined a field edit copy of T-11236. 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-11236
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-11239) 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 Project (PH-119) Completion Report.

62. Comparison with Registered Topographic Surveys

| | | |
|------|----------|---------|
| 307 | 1:20,000 | 1850 |
| 2654 | " | 1903-04 |
| 2663 | " | 1904 |
| 7106 | 1:10,000 | 1948 |
| 8013 | 1:10,000 | 1949 |
| 8170 | 1:20,000 | 1942 |

T-11236 supersedes the prior Bureau surveys for nautical charting purposes in common areas.

63. Comparison with Maps of Other Agencies

| | | |
|-------------------|----------|------|
| Nandua Creek, Va. | 1:25,000 | 1942 |
|-------------------|----------|------|

The quadrangle was based on Bureau Survey T-8170 (1942). The quadrangle and this planimetric survey are in good agreement overall in horizontal position of common details.

Approved by:

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

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

for L. F. Woodcock
Chief, Photogrammetry Division

J. Bowie
Chief, Operations Division

GEOGRAPHIC NAME LIST

Back Creek

*Butcher Creek

*Chesapeake Bay

*⁺⁺Hacks Neck

Hyslop Marsh

Milbys Point

Nandua Creek

* B.G.N. Decision

George H. Bace
GEOGRAPHIC NAMES SECTION
20 SEPTEMBER 1960

