**Diag. Cht. No. 77-6.**

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

**DESCRIPTIVE REPORT**

<table>
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<tr>
<th>Type of Survey</th>
<th>Planimetric</th>
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<td>Field No.</td>
<td>PH-5901</td>
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<tr>
<td>Office No.</td>
<td>T-10912 and T-10913</td>
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**LOCALITY**

- **State:** Virginia - Maryland
- **General locality:** Potomac River
- **Locality:** Metomkin Point and Owens

**1952-1954**

**CHIEF OF PARTY**
George F. Wirth, Photo Party - 723
W. E. Randall, Baltimore District Officer

**LIBRARY & ARCHIVES**

**DATE:** 1952
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<th>Compilation completed</th>
<th>5/22/61</th>
<th>Superseded</th>
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<tbody>
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<td>Shoreline and alongshore details revised from August 1961 photos.</td>
<td>3/19/62</td>
<td>Supersedes all previous copies.</td>
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<td>Compilation Record</td>
<td>Completion Date</td>
<td>Remarks</td>
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PROJECT NO. (III):
Ph-5901

FIELD OFFICE (III):
Faulkner, Maryland

CHIEF OF PARTY
G. F. Wirth

PHOTOGRAMMETRIC OFFICE (III):
Baltimore, Maryland

OFFICER-IN-CHARGE
William E. Randall

INSTRUCTIONS DATED (III) (III):
1/28/59
5/15/59
6/13/59

METHOD OF COMPILATION (III):
Graphic

MANUSCRIPT SCALE (III):
1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.:

DATE:

DATE REGISTERED (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):
METOMKIN 3, 1928

LAT.:
38° 22' 02.009"

LONG.:
77° 08' 19.703"

ADJUSTED

UNADJUSTED

PLANE COORDINATES (IV):

= 258,006.77 ft.  x = 2,390,261.60

STATE
VA

ZONE
N
# T-10912

## Descriptive Report - Data Record

**Field Inspection by (III):**
- G. F. Wirth
- J. E. Tolodziecki

**Mean High Water Location (III) (State Date and Method of Location):**
- 1959 inspection
- 1958 photographs

**Projection and Grids Ruled by (IV):**
- J. Keefer
  - Date: 5/25/60

**Projection and Grids Checked by (IV):**
- (not indicated)
  - Date: (unknown)

**Control Plotted by (III):**
- J. Steinberg
  - Date: 7/5/60

**Control Checked by (III):**
- J. Mooney
  - Date: 7/5/60

**Radial Plot (III):**
- L. A. Senasack
  - Date: 10/11/60

**Stereoscopic Instrument Compilation (III):**
- Planimetry
- Contours

**Manuscript Delineated by (III):**
- L. A. Senasack
  - Date: 12/13/60

**Scribing by (III):**
- B. Wilson and J. C. Cregan
  - Date: 7/6/62

**Photogrammetric Office Review by (III):**
- R. Glaser
  - Date: 5/22/61

**Remarks:**
## T-10913

**DESCRIPTIVE REPORT - DATA RECORD**

**FIELD INSPECTION BY (III):**
- G. F. Mirth
- J. E. Tolodziecki

**DATE:**
- May and June 1959

**MEAN HIGH WATER LOCATION (III) [STATE DATE AND METHOD OF LOCATION]:**
- May 1958 (date of photography). Field inspection May and June 1959 supplemented by office interpretation.

**PROJECTION AND GRIDS RULED BY (IV):**
- J. Keefer

**DATE:**
- 5/25/60

**PROJECTION AND GRIDS CHECKED BY (IV):**

**DATE:**

**CONTROL PLOTTED BY (III):**
- J. Steinberg

**DATE:**
- 7/5/60

**CONTROL CHECKED BY (III):**
- J. Mooney

**DATE:**
- 7/5/60

**RADIAL PLOT (III) [STATE DATE AND METHOD OF LOCATION]:**
- L. A. Senasack

**DATE:**
- 10/11/60

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**

**PLANIMETRY**

**DATE:**

**CONTOURS**

**DATE:**

**MANUSCRIPT Delineated BY (III):**
- L. A. Senasack

**DATE:**
- 1/4/61

**SCRIBING BY (III):**
- J. C. Cregan

**DATE:**
- 6/27/61

**PHOTOGRAMMETRIC OFFICE REVIEW BY (III):**
- R. Glaser

**DATE:**
- 5/25/61

**REMARKS:**
**T-10912**

**DESCRIPTIVE REPORT - DATA RECORD**

**AMEND (KIND OR SOURCE) (III):**

U.S.C. & G. S. "S" and "W" single lens

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<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tr>
<td>58-S-4963 thru 4985</td>
<td>6/14/58</td>
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<td>1:10,000</td>
<td>0.9' above MLW</td>
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<tr>
<td>58-W-599 and 600</td>
<td>5/20/58</td>
<td>1400</td>
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<tr>
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**TIDE (III):**

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<td>SUBORDINATE STATION:</td>
<td>Riverside, Maryland</td>
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**Ratio of Ranges:** 2.9' 3.3'

**Mean Range:** 1.1'

**Spring Range:** 1.3'

**WASHINGTEN OFFICE REVIEW BY (IV):** BALTO. DISTRICT OFFICE - R. GLASER

**FINAL DATE:** 4/2/63

**PROOF EDIT BY (IV):**

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):** 5

**RECOVERED:** 3

**IDENTIFIED:** 3

**NUMBER OF BM(S) SEARCHED FOR (III):** None

**RECOVERED:** None

**IDENTIFIED:** None

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):** None

**NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):** None

**REMARKS:**

*Includes 3 stations west of project limits.*

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<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tr>
<td>58-6-1981 &amp; 4982</td>
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<td>1529</td>
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<td>57340 thru 57342</td>
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**TIDE (III):**

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<th>SPRING RANGE</th>
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**FINAL WASHINGTON OFFICE REVIEW BY (IV):** BALTO. DISTRICT OFFICE - R. Glaser

**DATE:** 4/2/63

**PROOF EDIT BY (IV):**

**DATE:**

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):** 1

**RECOVERED:** 1

**IDENTIFIED:** 1

**NUMBER OF BM(3) SEARCHED FOR (III):** none

**RECOVERED:** none

**IDENTIFIED:** none

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):** none

**NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):** 1

**REMARKS:**
## PROJECT PH-5901

**Planimetric Mapping**  
**Scale 1:10,000**

**Potomac River Va.-Md.**

**Maryland Point to Wicomico River**

---

### Official Mileage for Cost Accounts

<table>
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<th>Sheet Number</th>
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<th>Lin. Mi. Shoreline</th>
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**TOTALS** --- Area 215 Sq. Mi.  Shoreline 214 Mi.
Planimetric maps T-10912 and T-10913 are part of Project Ph-5901 which consists of 2½ planimetric maps and one shoreline survey. These maps cover a portion of the Virginia shore of the Potomac River and include Somerset Beach, Metomkin Point, Stuart Point, Chotank Creek and a small section of the Maryland shore on the north side of the river. This is a graphically compiled project at a scale of 1:10,000 in advance of hydrographic surveys to be made in the area. The maps were covered by nine-lens photography of May 1958, single lens "S" photography of June 1958 and "H" photography of May 1958 and October 1959. These were supplemented "S" photographs of July and August 1961. The manuscripts were controlled by radial plot using Stereoplanigraph bridge points to supplement field identified control. The field operations preceding compilation included complete field inspection, recovery and identification of horizontal control and establishment of one photo-hydro station. The manuscripts are vinylite sheets 3-3/4' in latitude by 3-3/4' in longitude which were scribed and reproduced on cronaflex following photogrammetric office review. The registered copies under T-10912 and T-10913 will consist of a cronar film positive and a cronar film negative of each scribed manuscript.
<table>
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<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
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<th>LONGITUDE OR X-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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COMPUTED BY: J. Steinberg
DATE: 6/22/60

CHECKED BY: H. R. Rudolph
DATE: 6/24/60
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<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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1 FT. = 304.8005 METER

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*Date: 6/20/60*  
*Checked by: H. R. Rudolph*  
*Date: 6/28/60*
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1 FT = 0.0254006 METER

COMPUTED BY: J. Steinberg DATE: 6/22/60
CHECKED BY: H. R. Rudolph DATE: 6/24/60
COMPILATION REPORT

T-10912 & T-10913

The photogrammetric plot report covering the area of these surveys is part of the combined Descriptive Report T-10926 and T-10927.

The field inspection report for the Virginia area is part of the combined Descriptive Report T-10926 and T-10927; for the Maryland area, see combined Descriptive Report T-10921 and T-10922.

31. Delineation

These manuscripts were compiled by the graphic method.

32. Control

The identification, density and placement of horizontal control was adequate. If triangulation stations CASH, 1934 (S.W. of project limits) and MCDANIELS 2, 1954, had been identified, the strength and accuracy of this portion of the radial plot would have been improved.

33. Supplemental Data

1. Geographic name sheets prepared on the U.S. G.S. King George and Dahlgren quadrangles, approved by L. Heck and dated 10/10/60.

2. Official 1961 Virginia Highway map was used to correct conflicting field inspection data regarding highway numbers.

34. Contours and Drainage

Contours: Inapplicable.

Drainage: With the exception of drainage through marsh areas which could be seen easily on the photographs, all other drainage was concealed under dense foliage. Field inspected drainage was checked against the 1955 U.S.G.S. quadrangles and was accepted only where it did not violate the contours. The balance of the drainage was office interpreted using the quadrangles as a guide.

35. Shoreline and Alongshore Details

The shoreline inspection was adequate.

No low-water or shoal lines were field inspected and none were shown on the manuscripts.

Limits of grass in water were office interpreted from data furnished by the field party.

36. Offshore Details

No comment.
37. **LANDMARKS AND AIDS**

None.

38. **CONTROL FOR FUTURE SURVEYS**

One photo-hydro station, CHIM was established and is listed in item 49.

The field party failed to comply with the project instruction which requires a recoverable triangulation station or a recoverable topographic station about every two miles, in the area southwestward from Metomkin Point (T-10912), or in the area northeastward from Stuart Point (T-10913).

39. **JUNCTIONS**

Junction has been made and is in agreement between these two surveys. Junction has also been made and is in agreement between this unit and:
- T-10906 and T-10907 to the north
- T-10914 to the east
- Shoreline Survey T-12129 to the south of T-10913
- No contemporary survey to the west and south of T-10912

40. **HORIZONTAL AND VERTICAL ACCURACY**

No comment.

41. thru 45.

Inapplicable.

46. **COMPARISON WITH EXISTING MAPS**


47. **COMPARISON WITH NAUTICAL CHARTS**

Chart 559, scale 1:40,000, 5th edition October 17, 1960, corrected through Notices to Mariners No. 4l, October 29, 1960.

Items to be applied to nautical charts immediately: None.
Items to be carried forward: None.
T-10912 & T-10913

Addenda to Descriptive Report

Ratio prints of the following photographs were prepared for the use of the hydro support party:

T-10912
61-8-2091 thru 2093
61-8-3305 thru 3309

T-10913
61-8-2906
61-8-3266 thru 3268
61-8-3303 thru 3305

These photographs were also used in the compilation office to revise shoreline and alongshore details on the manuscripts prior to reproduction.

The centers of the photos have been shown on the manuscripts with dashed circles.

Respectfully submitted
March 19, 1962

R. Glaser
Carto. (Photo.)

Approved and Forwarded

William E. Randall
CDR, C&GS
Baltimore District Officer
PHOTOGRAMMETRIC OFFICE REVIEW

T-10912 & T-10913

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

CONTROL STATIONS
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 sextant fixes ✗
10. Photogrammetric plot report ✓
11. Detail points ✓

ALONGSHORE AREAS
(Nautical Chart Date)
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 alongshore cultural features ✓

PHYSICAL FEATURES
20. Water features ✓
21. Natural ground cover ✓
22. Planetary 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 ✓

Reviewer
Supervisor, Review Section of Unit

40. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

41. 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:
Review Report T-10912 & T-10913

Planimetric

March 29, 1963

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-10912:

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<td>8511</td>
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T-10912 and T-10913 supersede the above prior surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

U.S.C.S. King George, Va.-Md. 1:24,000 1955
U.S.C.S. Dahlgren, Va.-Md. 1:24,000 1955

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

H-8706 1:10,000 1962 (Boat sheet)

T-10912:
A foul area on the manuscript, delineated from field photo 59-N-9561 at Latitude 38° 22.5' Longitude 77° 10', is not shown on the boat sheet.

T-10913:
The manuscript and the boat sheet are in good agreement.

H-8703 1:10,000 1961 (Boat sheet)

T-10913:
The boat sheet covers only a small portion of the shoreline on the manuscript.

In the vicinity of Lat. 38° 19' Long. 77° 03.8', the shoreline of Upper Machodoc Creek on the boat sheet is incorrectly shown. The shoreline on the manuscript was delineated using 9-lens photograph 57339 with minor revisions drawn from photo. 61-S-2908.
65. **COMPARISON WITH NAUTICAL CHARTS**

T-10912:
Several piers delineated on the manuscript are not shown on the chart.

A number of charted bluffs do not appear on the manuscript.

T-10913:
The manuscript shows a marine railway which is not charted.

Three charted piers in the area of Stuart Point are not shown on the manuscript.

Several bluffs shown on the chart are not delineated on the manuscript.

66. **ADEQUACY OF RESULTS AND FUTURE SURVEYS**

The surveys comply with instructions and meet the National Standards of Map Accuracy. Except as noted in Item 38 on page 12.

Future surveys should resolve discrepancies that may exist between the current nautical chart and these surveys with respect to the portrayal of those bluffs which are of importance to navigation.

Reviewed by

R. Glaser

Approved by

Baltimore District Officer

Approved by

Chief, Review Section

Chief, Nautical Chart Division

Chief, Photogrammetry Division
48. Geographic Name List

Amber
Berthaville
Burgess Airfield
Chotank Creek
Deep Creek
Hooes
Metomkin Point
Owens
Pepper Mill Creek
Potomac River
Somerset Beach
Stuart Point
Stuart Wharf
Upper Machodoc Creek
Williams Creek

Geographic Names Section
28 June 1963
INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

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