**DESCRIPTIVE REPORT**

**Type of Survey**  
Planimetric  
T-10903, T-10904,

**Field No.**  Ph-5901  
**Office No.**  & T-10905

### LOCALITY

**State**  Maryland

**General locality**  Potomac River  
**Ironsides, Welcome, and**

**Locality**  Port Tobacco River

---

**1958 - 1961**

**CHIEF OF PARTY**  
G. F. Wirth, Photo Party 723  
M. E. Randall, Baltimore District Officer

**LIBRARY & ARCHIVES**

**DATE**  SEP 26 1963
<table>
<thead>
<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
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<tbody>
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<td>Compilation completed</td>
<td>5/2/61</td>
<td>Superseded</td>
</tr>
<tr>
<td>COMPIIATION RECORD</td>
<td>COMPLETITION DATE</td>
<td>REMARKS</td>
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<td>Superseded</td>
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<td>Shoreline details revised from August 1961 photographs</td>
<td>2/28/62</td>
<td>Supersedes all previous copies. Copy for 1962 photo-hydro support.</td>
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DESCRIPTIVE REPORT - DATA RECORD

T-10903, T-10904; & T-10905

Project No. (II): Ph-5901

Quadrangle Name (IV):

Field Office (II): Faulkner, Md.

Chief of Party: G. F. Mirth

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: W. E. Randall

Instructions dated (II) (III): January 28, 1959

Ltr. from Asst. Dir. dated May 15, 1959

June 29, 1959

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):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): NAV

Mean sea level except as follows:

Elevations shown as (2) refer to mean high water

Elevations shown as (5) refer to soundings datum

I.e., mean low water or mean lower low water

Reference Station (III): HILLTOP, 1934

Lat.:

Long.:

Adjusted

Plane Coordinates (IV):

State: Maryland

Zone: --

\[ y = 301,533.78 \]

\[ x = 2,393,406.10 \]

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.
Areas contoured by various personnel
(Show name within area)
(II) (III)
Field Inspection by (II): G. F. Wirth, R. S. Tibbetts and E. E. Brown

Date: November thru December 1959

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): 1959 field inspection on 1958 photographs.

Projection and Grids ruled by (IV):

Data not available

Projection and Grids checked by (IV):

Date:

Control plotted by (III):

J. Steinberg

Date: 6/30/60

Control checked by (III):

J. Mooney

Date: 6/30/60

Radial Plot or Stereoscopic

Control extension by (III): L. A. Senasack

Date: 11/15/60

Planimetry

Stereoscopic Instrument compilation (III):

Contours

Manuscript delineated by (III): J. Y. Councill

Date: 1/18/61

Manuscript scribed by: J. C. Cregan

Date: 7/25/62

Photogrammetric Office Review by (III): R. Glaser

Date: 5/2/61

Elevations on Manuscript

checked by (II) (III):

Date:
Field Inspection by (II): G. F. Wirth, R. S. Tibbetts, G. E. Brown
Date: November thru December 1959

Planatable contouring by (II): Inapplicable

Mean High Water Location (III) (State date and method of location): 1959 field inspection on 1958 photos.

Projection and Grids ruled by (IV): J. Keefer
Date: 6/2/60

Projection and Grids checked by (IV): W. S.

Control plotted by (III): J. Steinberg
L. A. Senasack
Date: 6/30/60
9/20/60

Control checked by (III): J. Mooney
F. J. Tarcza
Date: 6/30/60
9/20/60

Radial Plot of Stereoscopic

Geodetic Triangulation (III): L. A. Senasack
Planimetry

Stereoscopic Instrument compilation (III): Contours

Manuscript delineated by (III): J. Y. Counciell
Date: 12/14/60

Manuscript scribed by: J. C. Cregan
Date: 7/16/62

Photogrammetric Office Review by (III): R. Glaser
Date: 5/1/61

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

Page 3a
Field Inspection by (II): G. F. Wirth, R. S. Tibbetts and E. E. Brown

Date: November thru December 1959

Planetable contouring by (II): Inapplicable

Completion Surveys by (II):

Mean High Water Location (III) (State date and method of location): 1959 Field inspection on 1958 photographs.

Projection and Grids ruled by (IV): W. S.

Date: 5/16/60

Projection and Grids checked by (IV): (Data not available)

Date: 

Control plotted by (III): J. Steinberg

Date: 7/1/60

Control checked by (III): J. Mooney

Date: 7/1/60

Radial Plotting

Control drawn by (III): L. A. Senasack

Date: 11/15/60

Planimetry

Stereoscopic Instrument compilation (III):

Contours

Date: 

Manuscript delineated by (III): J. Y. Councill

Date: 11/23/60

Manuscript scribed by: J. C. Cregan

Date: 6/4/62

Photogrammetric Office Review by (III): R. Glaser

Date: 4/26/61

Elevations on Manuscript

checked by (II) (III):

Date: 

Page 3 b
T-10903

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): U. S. C. & G. S. nine-lens camera

PHOTOGRAPHS (III)

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<th>Scale</th>
<th>Stage of Tide</th>
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<tbody>
<tr>
<td>57276 &amp; 57277</td>
<td>5/22/58</td>
<td>11:19</td>
<td>1:10,000</td>
<td>0.1' above MLW</td>
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<tr>
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<td>5/23/58</td>
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Tide (III)

From Predicted Tables

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<tr>
<th>Ratio of</th>
<th>Mean</th>
<th>Spring</th>
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<tbody>
<tr>
<td>Ranges</td>
<td>Range</td>
<td>Range</td>
</tr>
<tr>
<td>2.9'</td>
<td>3.1'</td>
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<tr>
<td>0.1'</td>
<td>1.2'</td>
<td>1.4'</td>
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<tr>
<td>0.38'</td>
<td>1.1'</td>
<td>1.3'</td>
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</table>

Reference Station: Washington, D. C.
Subordinate Station: Upper Cedar Point Lt, Md.
Subordinate Station: Riverside, Md.

Final
Washington Office Review by (IV): Both District Office - R. Gliser
Date: 2-28-63

Final Drafting by (IV):
Drafting verified for reproduction by (IV):
Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 13
Shoreline (More than 200 meters to opposite shore) (III): 6.3 mi.
Shoreline (Less than 200 meters to opposite shore) (III): 7.4 mi.
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 2
Number of BMs searched for (II): None
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): None

Remarks:
**PHOTOGRAPHS (III)**

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<tr>
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<th>Scale</th>
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</thead>
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<td>57247 thru 57249</td>
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<td>10:59</td>
<td>1:10,000</td>
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<td>57274 &amp; 57275</td>
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**Tide (III)**

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<th>Spring Range</th>
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<tr>
<td>Washington, D. C.</td>
<td>Chapel Pt., Port Tobacco River, Md.</td>
<td>2:91</td>
<td>3:31</td>
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<tr>
<td></td>
<td>Upper Cedar Pt. Lt., Md.</td>
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<td>1:51</td>
<td>1:71</td>
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<tr>
<td></td>
<td></td>
<td>0.31</td>
<td>1:21</td>
<td>1:41</td>
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</tbody>
</table>


Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

**Land Area (Sq. Statute Miles) (III):** 13

Shoreline (More than 200 meters to opposite shore) (III): 5.0 Mi.

Shoreline (Less than 200 meters to opposite shore) (III): 4.3 Mi.

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 2
Number of BMs searched for (II): None
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): 1

Remarks:
DESCRIPTIVE REPORT - DATA RECORD

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

PHOTOGRAPHS (III)

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<th>Number</th>
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<td>1100</td>
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Tide (III)
From Predicted Tables

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<th>Spring Range</th>
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<td>1.51</td>
<td>1.71</td>
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Final

Date: 2-28-63

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 11
Shoreline (More than 200 meters to opposite shore) (III): 13.2 mi.
Shoreline (Less than 200 meters to opposite shore) (III): 2.7 mi.
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 3
Recovered: 2
Identified: 2
Number of BMs searched for (II): None
Number of Recoverable Photo Stations established (III): 4
Number of Temporary Photo Hydro Stations established (III): 2

Remarks: * 5 previously established stations searched for of which one was recovered. (Five Forms 524 submitted)
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>
<th>Area (Sq. Mi.)</th>
<th>Lin. Mi. Shoreline</th>
<th>Sheet Number</th>
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<td>10905</td>
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TOTALS: Area 275 Sq. Mi. Shoreline 271 Lin. Mi.
Summary to Accompany Descriptive Reports

T-10903, T-10904 & T-10905

Planimetric maps T-10903, T-10904 and T-10905 are the most northerly of 24 similar maps and one Shoreline Survey in project Ph-5901. These maps cover Fort Tobacco River and the northern portion of Nanjemoy Creek. 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 area was covered by 9-lens photography of May 1958, supplemented by single lens "w" photography of October 1959. 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, the establishment of recoverable photo-hydro stations, recovery and identification of horizontal control, recoverable topographic stations and landmarks. 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-10903, T-10904 and T-10905 will consist of a cronar film positive and cronar film negative of each scribed manuscript.
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
WASHINGTON 25

12 September 1960

To: Baltimore District Officer
   Coast and Geodetic Survey
   518 - 32nd St.
   Baltimore 18, Maryland

Subject: Corps of Engineers Horizontal Control,
         Project Ph-5901

There is enclosed one copy of positions and
descriptions of horizontal control established in
the Nanjamooy quadrangle by the Corps of Engineers
in 1943. These are third-order positions according
to the description pamphlet.

Personnel from your office shall recover and
identify stations as required to strengthen radial
plots for Project Ph-5901 in maps T-10903 through
T-10905.

This office shall be advised immediately if
subject control is not recovered so that adequate
steps can be taken to prevent delaying work now in
progress on project 20,000-829.

A copy of this letter shall be inserted in,
and made a part of, the descriptive report of each
effected map.

Charles Pierce
Rear Admiral, CGS
Deputy Director

Enclosure
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</th>
<th>LATITUDE OR $y$-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<tr>
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<td>VA. N. Zone Pg. 45</td>
<td>301.533.78</td>
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<td>MAN4EMOY Quad (USED)</td>
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<td>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</td>
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1 FT. = 0.3048006 METER

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CHECKED BY: H. R. Rudolph  DATE: 6/28/60
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1 FT. = .3048006 METER

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DATE: 6/22/60

CHECKED BY: H. R. Rudolph
DATE: 6/21/60
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1 ft. = 0.3048006 meter

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CHECKED BY: H. R. Rudolph   DATE: 6/23/60
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1 FT. = 0.3048006 METER

COMPUTED BY: J. Steinberg       DATE 6/22/60       CHECKED BY: H. R. Rudolph       DATE 6/23/60
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 these manuscripts is included with the combined Descriptive Report T-10921 and T-10922.

31. **DELINEATION**

These manuscripts were compiled by the graphic method.

An area at the head of Port Tobacco River (T-10905) was shown by the field party as being under construction - the construction consisting of housing and canals. The hydrographic party is being requested to complete this inspection.

32. **CONTROL**

The identification and placement of the control which was available was satisfactory.

Additional horizontal control was identified as per letter from the Deputy Director dated 12 September 1960, a copy of which is part of this report.

After this additional identification was made, the control density is considered adequate, though minimal.

33. **SUPPLEMENTAL DATA**

Geographic name sheets prepared on U.S.G.S. Mathias Point and Nanjemoy quadrangles, approved by L. Heck and dated 10/10/60.

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 under dense foliage and was very difficult to delineate accurately. Field inspected drainage was checked against the 1954 U.S.G.S. quadrangles and was accepted only where it did not violate the contours. The balance of the drainage was office interpreted, then also checked against the drainage as projected onto the manuscript from the quadrangles.

35. **SHORELINE AND ALONGSHORE DETAILS**

The shoreline inspection, although reinterpreted in some areas where there was more recent photo coverage, was considered adequate.

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

No comment.

37. **LANDMARKS AND AIDS**

Forms 567 are herewith submitted for one Landmark for charts and one Landmark for Aeronautical Charts.

38. **CONTROL FOR FUTURE SURVEYS**

Form 524 is herewith submitted for one (1) previously established recoverable topographic station which was recovered. In addition, four (4) Forms 524 are submitted for previously established stations which could not be recovered.

A list of recoverable topographic stations and photo-hydro stations is included in item 49.

39. **JUNCTIONS**

Junctions have been made and are in agreement between these three surveys. Junctions have also been made and are in agreement between this unit and T-10906, T-10907 and T-10908 to the south. There are no contemporary surveys to the north, east and west.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No comment.

41. thru 45

Inapplicable.

46. **COMPARISON WITH EXISTING MAPS**

U. S. G. S. Mathias Point, Md.-Va. quadrangle, scale 1:24,000, dated 1954.

U.S.G.S. Nanjemoy, Md. quadrangle, scale 1:24,000, dated 1954.
17. COMPARISON WITH NAUTICAL CHARTS


Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted
May 3, 1961
R. Glaser
R. Glaser
Carto. (Photo.)

Approved and forwarded

William E. Randall
CDR, C&GS
Baltimore District Officer
T-10903, T-10904, T-10905

Addenda to Descriptive Report

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

**T-10903**
61-S-2209 thru 2212

**T-10904**
61-S-2206 thru 2209
61-S-3289 and 3290

**T-10905**
61-S-2081 and 2082
61-S-2163 thru 2166
61-S-3257
61-S-3299 thru 3301

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

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

Respectfully submitted
March 29, 1962

[Signature]

Raymond Gasser
Carto. (Photo.)

Approved and Forwarded

[Signature]

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


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 x

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines ✓ 32. Public land lines x

MISCELLANEOUS

40. Reviewer: Joseph Steinberg
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:
Review Report T-10903, T-10904 & T-10905
PLANIMETRIC
February 28, 1963

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-10903:
  2635    1:20,000    1902

T-10904:
  2635    1:20,000    1902

T-10905:
  861     1:20,000    1862
  2635    1:20,000    1902

T-10903, T-10904 and T-10905 supersede the above prior surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

U.S.G.S. Mathias Point, Md.-Va.  1:24,000    1954
U.S.G.S. Nanjemoy, Maryland    1:24,000    1954

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

The manuscripts were compared with a copy of boat sheet H-8705, 1:10,000, 1962.

T-10903:

The manuscript and boat sheet were in good agreement except:
  Soundings on the boat sheet appear to be shifted too close to a
  low-water area and a small islet at Lat. 38° 26.9' - Long. 77° 09.2'
  on the manuscript. Neither the islet nor the low-water line were
  delineated on the boat sheet.

T-10904:

The manuscript and the boat sheet are in very good agreement.

T-10905:

Only one disagreement between the manuscript and the boat sheet
was noted. A foul area delineated on the manuscript in Goose Creek is
not reflected on the boat sheet. Field inspection on nine-lens photo-
graph 57250 showed this feature as "old piling scattered in area."
65. COMPARISON WITH NAUTICAL CHARTS

559 1:40,000 5th Edition 10/17/60 Corrected 10/29/60

T-10903:
A number of piers shown on the manuscript do not appear on the chart.
The configuration of the shoreline is in fair general agreement, but many small differences are evident.

T-10904:
A boat house, a bulkhead, and a number of piers shown on the manuscript are not on the chart.

T-10905:
The manuscript shows considerable change at the head of Port Tobacco River where a new marina is under construction.
A 10 to 15 foot bluff at Brentland is not shown on the chart.
A number of piers on the manuscript are not on the chart.
Pier ruins at Chapel Point and Fourth Point are not shown on the chart.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

These surveys comply with instructions and meet the National Standards of Map Accuracy.

Future surveys should check the adequacy of representation of the marina at the head of Port Tobacco River which was under construction at the time of the July 1961 photography. (See T-10905)

Reviewed by:
R. Glasier

Approved by:
Baltimore District Officer

Approved by:
Le Lande
Chief, Review Section

Chief, Chart Division
Nautical
I recommend that the following objects which **have not** been inspected from seaward to determine their value as landmarks be charted on (or whatever the charts indicated).

The positions given have been checked after listing by R. CLASER

<table>
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<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE °</th>
<th>LONGITUDE °</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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<td>38 29 861</td>
<td>77 06 55</td>
<td>N.A. Triang., 3 Dec. 1959 Washington Sectional</td>
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</table>

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 6-36, Fig. 79. Positions of charted landmarks and non-floating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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
TO BE CHARTED

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by R. Claser

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<td>St. Ignatius Ch. Steeple, Ht-95 ft. (236) White wooden spire, brick church</td>
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</table>

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 6-36, Fig. 79. Positions of charted landmarks and non-floating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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

USCOMM-DC 25412-P61
48. Geographic Names List

Barn Cove
Boot Creek
Brentland
Burgess Creek

Cedar Point Neck
Chapel Point
Deep Point

Fourth Point

Goose Creek
Gumtree Cove

Hill Top
Hill Top Fork

Ironsides

Kings Creek

Maryland State Game Refuge
McConchie
Mill Run

Nanjemoy Creek

Port Tobacco River
Potomac River

Tayloe Neck

Wards Run
Warehouse Point
Welcome
Wills Branch
Windmill Point

Geographic Names Section
July 1963
NOTES TO VERIFIER
Ph-5901
T-10903 & T-10905
Boat Sheet No. H-8705
February 1963

T-10903:

Soundings on the boat sheet appear to be shifted too close to a low-water area and a small islet at Lat. 38° 26.9' Long. 77° 09.2' on the manuscript. Neither the islet nor the low-water line were delineated on the boat sheet.

R. Glaser
Review and Edit
**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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<tr>
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<th>REMARKS</th>
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