
Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey: Planimetric

Field No.: Ph-161 Office No.: T-10667

LOCALITY

State: Maryland
General locality: Potomac River
Locality: St. Inigoes

1955-1958

CHIEF OF PARTY
James F. Randall, Chief of Party
W. E. Randall, Baltimore District Officer

LIBRARY & ARCHIVES

DATE

USCGM-DC 5067
DESCRIPTIVE REPORT - DATA RECORD

T = 10667

Project No. (II): Ph-161
Quadangle Name (IV):

Field Office (II): Leonardtown, Maryland
Chief of Party: James P. Randall

Photogrammetric Office (III): Baltimore, Maryland
Office-in-Charge: W. E. Randall

Instructions dated (II) (III): 9/16/57, 73/raa
Ltr. from Ch. Photo. Div. - 7/23/58, 73/rjr
Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000
Stereoscopic Plotting Instrument Scale (III): 1:6,000
(Pentograph Ratio 3/5)

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):
Geographic Datum (III): N.A. 1927

Publication date (IV): Vertical Datum (III):

Reference Station (III): CHESTNUT, 1908
Lat.: 38° 09' 49.126" (1,514.7 m) Long.: 76° 25' 06.511" (159.5 m)

Adjusted

Plane Coordinates (IV):
State:
Zone:

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.
Areas contoured by various personnel
(Show name within area)
(II) (III)
Field Inspection by (II):

James P. Randall
Robert S. Tibbetts
Mathew S. Stewart
Date: June 1958 thru September 1958

Planimeter contouring by (II):

Completion Surveys by (II):

Mean High Water Location (III) (State date and method of location): 11/12/55 and supplemented by photography taken 1/5/58. Photogrammetric

Projection and Grids ruled by (IV):
P. Dempsey
Date: 11/10/58

Projection and Grids checked by (IV):
R. D. Shoup
Date: 11/12/58

Control plotted by (III):
D. M. Brant
Date: 6/3/59

Control checked by (III):
J. C. Richter
Date: 6/3/59

Radial Plot or Stereoscopic
Control extension by (III):
W. Kuncie
Date: May 1959

Stereoscopic Instrument compilation (III):
Planimetry E. L. Rolle
Date: 9/21/59

scribed
Manuscript scribed by (III):
J. C. Cregan
Date: 8/22/61

Photogrammetric Office Review by (III):
D. M. Brant
Date: 3/3/61

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

COMM-DC-57842
DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&DGS types "W" & "S" cameras with 6" focal length and nine-lens camera.

PHOTOGRAPHS (III) (E.S.T.)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>55-W-2374 thru 2376</td>
<td>11/12/55</td>
<td>13:16</td>
<td>1:30,000</td>
<td>1.5' above MHW</td>
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<tr>
<td>55-W-2415</td>
<td>#</td>
<td>14:23</td>
<td>#</td>
<td>1.2' #</td>
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<tr>
<td>55-S-7511</td>
<td>1/5/58</td>
<td>13:00</td>
<td>1:10,000</td>
<td>1.5' #</td>
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<tr>
<td>52186 and 52189</td>
<td>11/12/55</td>
<td>11:18</td>
<td>1:10,000</td>
<td>1.5' #</td>
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Tide (III)

(From Predicted Tables)

<table>
<thead>
<tr>
<th>Ratio of Ranges Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.9'</td>
<td>3.3'</td>
</tr>
<tr>
<td>0.52</td>
<td>1.5'</td>
</tr>
<tr>
<td>1.7'</td>
<td></td>
</tr>
</tbody>
</table>

Reference Station: Washington, D. C.
Subordinate Station: St. Marys City, Maryland

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 14.5
Shoreline (More than 200 meters to opposite shore) (III): 6
Shoreline (Less than 200 meters to opposite shore) (III): 9
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 13 Recovered: 6 Identified: 1
Number of BMs searched for (II): None Recovered: None Identified: None
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): None

Remarks:
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
</tr>
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<tbody>
<tr>
<td>CALVERT MONUMENT</td>
<td>MD p. 105</td>
<td>NA 1927</td>
<td>129.467.61</td>
<td>962.069.14</td>
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<td>ST. MARY'S</td>
<td>G 5461 p. 257A</td>
<td></td>
<td>36° 11' 14.695</td>
<td>76 26 07.288</td>
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<tr>
<td>EPISCOPAL CHURCH</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>CROSS, 1908</td>
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<tr>
<td>SLEEP, 1908</td>
<td>MD p. 121</td>
<td></td>
<td>121.972.13</td>
<td>966.523.34</td>
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<td></td>
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<tr>
<td>CHURCH, 1908</td>
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<td></td>
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<tr>
<td>ST. INIODES CHURCH</td>
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<td></td>
<td>38 08 00.0708</td>
<td>76 25 27.629</td>
<td></td>
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<tr>
<td>CROSS, 1908</td>
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<tr>
<td>FLAGPOLE (MSFC)</td>
<td>MD p. 143</td>
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<td>107.032.58</td>
<td>969.583.20</td>
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<td>1908</td>
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<td>ROCK R.M. (MSFC)</td>
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<td>121.301.21</td>
<td>964.578.49</td>
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<td>BROME RM (MSFC)</td>
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<td>38 10 53.524</td>
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<td>(MSFC) 1908</td>
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<td>DUSKY RM (MSFC)</td>
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<td>38 09 46.072</td>
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<tr>
<td>(MSFC) 1908</td>
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<tr>
<td>COTTAGE RM</td>
<td></td>
<td></td>
<td>38 09 37.062</td>
<td>76 25 52.306</td>
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<tr>
<td>(MSFC) 1908</td>
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<td>RALEY, 1908</td>
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<td></td>
<td>117.430.52</td>
<td>962.653.29</td>
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</tbody>
</table>

1 ft. = 30480.06 meter

COMPUTED BY: J. Steinberg DATE: 11/26/58
CHECKED BY: H. P. Eichert DATE: 12/9/58
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST MARY'S EPISCOPAL CHURCH CROSS, 1906-42</td>
<td>G-5461 p.257A</td>
<td>N.A. 1927</td>
<td>38 11 14.695 453.1 1396.9 177.4 1282.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>76 26 07.288</td>
</tr>
</tbody>
</table>
The photogrammetric plot report and field report for this survey are part of the Descriptive Report for survey No. T-10651.

31. DELINEATION

The Kelsh plotter was used for delineation using the 1955 photography. The map was edited using the 1958 photography which covered the northern half of this map. The changes were of a minor nature such as limits of ground cover and road improvements.

The photo-hydro points Ant (Radar Antenna) and Tow (Flight Tower) have been shown on the Advanced Manuscript as located objects with their descriptive names.

32. CONTROL

Horizontal control consisted chiefly of passpoints from the stereoplanigraph bridging plus two triangulation stations. Two Kelsh models, 2374, 2375 and 2376 which cover most of this map, were difficult to scale. A number of solutions using both models were tried until two passpoints, 7501 and 7503 were isolated, and believed in error. Both of the points were off in the same direction by approximately 5 mm.

Model 2375 and 2376 was set first holding all control with exception of 7501 and 7503. From this solution, new positions were dropped for these two pass points.

Model 2374 and 2375 was then set holding all horizontal positions and checking within 0.5 mm of the new positions for pass points 7401 and 7503. The passpoints in error were not shown on the Advanced Manuscript.

33. SUPPLEMENTAL DATA

Map of Naval Auxiliary Landing Field, Webster Field, Maryland, sheet 8 of 10, scale 1:400, dated 31 December 1957.

34. CONTOURS AND DRAINAGE

Contours: Inapplicable.

Drainage was taken from A.M.S. Series V 833 quadrangle of St. Mary's City, Maryland, scale 1:25,000, dated 1943, and revised in 1950. This drainage was in good agreement with what could be interpreted from stereoscopic examination of the photographs.
35. **SHORELINE AND ALONGSHORE DETAILS**

Shoreline inspection was adequate.

36. **OFFSHORE DETAILS**

One duck blind located in the stereoplanigraph bridging.

37. **LANDMARKS AND AIDS**

None.

38. **CONTROL FOR FUTURE SURVEYS**

An incomplete copy of this survey showing the shoreline along with a set of ratio photographs with passpoints was prepared and submitted for the use of the hydrographic party.

39. **JUNCTIONS**

The following junctions have been made:
- To the north with T-10660
- To the east with T-11288 (Ph-101)
- To the south with T-10673
- To the west with T-10666

40. **HORIZONTAL AND VERTICAL ACCURACY**

No comment.

41. **BOUNDARIES**

A portion of the reservation boundary for the St. Mary's Seminary Jr. College, Maryland was compiled from data from the Topographic Utility and Property Survey dated 27 September 1949.

The reservation boundary for Webster Field (U.S.N. Air Station) was compiled from field inspection and a drawing of the Naval Auxiliary Lending Field, Webster Field, Maryland, sheet 8 of 10, scale 1:400, dated 31 December 1957.
42 through 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

A.M.S. Sheet 5760 III N.W., St. Marys City, Md., scale 1:25,000, dated 1943, revised 1946, 3rd edition 1950. (Based on survey T-8138, 1943)

47. COMPARISON WITH NAUTICAL CHARTS


Items to be applied to nautical charts immediately: None.
Items to be carried forward: None.

Respectfully submitted

[Signature]
Edward L. Rolle
Carto. (Photo.)

Approved and forwarded

[Signature]
William E. Randall
CDR, C&GS
Baltimore District Office
PHOTOGRAMMETRIC OFFICE REVIEW

6. Recoverable horizontal stations of third-order or higher accuracy  7. Photo hydro stations  8. Bench marks

ALONGSHORE AREAS
(Nautical Chart Data)
17. Landmarks  18. Other alongshore physical features  19. Other alongshore cultural features

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines  32. Public land lines

MISCELLANEOUS
33. Geographic names  34. Junctions  35. Legibility of the manuscript  36. Discrepancy overlay

Reviewer
Supervisor

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:
48. Geographic Names:

Beachville
Broom Creek
Brooms Wharf

Church Cove
Church Creek

Jutland Creek
Jutland Neck

Langley Hollow
Lucas Cove

Milburn Creek
Mill Creek
Molls Cove

Smith Creek
St. Inigoes
St. Inigoes Creek
St. Inigoes Neck
St. Marys City
St. Marys River

Tolton Point

Geographic Names Section
19 March 1963
REVIEW REPORT
OF PLANIMETRIC MAPS
T-10658 thru T-10660, T10665 thru T-10667,
T-10672 and T-10673

April 1963

61. General Statement

These are eight (8) planimetric maps of project FH-161, Lower Potomac River, Md. and Va. These maps were prepared to furnish shoreline and control for hydrographic surveys and base maps for nautical charting.

62. Comparison with Registered Topographic Surveys

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>T-8137</td>
<td>1:20,000</td>
<td>1943</td>
</tr>
<tr>
<td>T-8138</td>
<td>1:20,000</td>
<td>1943</td>
</tr>
<tr>
<td>T-8139</td>
<td>1:20,000</td>
<td>1943</td>
</tr>
<tr>
<td>T-8147</td>
<td>1:20,000</td>
<td>1943</td>
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</tbody>
</table>

These surveys agree with subject manuscripts as well as could be expected under consideration of the time interval. Only minor differences exist between the surveys of 1943 and subject manuscripts and are to supersede above listed registered surveys of common area and detailing for nautical charting purposes.

63. Comparison with Maps of Other Agencies

<table>
<thead>
<tr>
<th>Location</th>
<th>Scale</th>
<th>Agency</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piney Point, Md.</td>
<td>1:24,000</td>
<td>U.S.G.S.</td>
<td>1943</td>
</tr>
<tr>
<td>St. Marys City, Md.</td>
<td>1:24,000</td>
<td>U.S.G.S.</td>
<td>1943</td>
</tr>
<tr>
<td>St. George Island, Md.</td>
<td>1:24,000</td>
<td>U.S.G.S.</td>
<td>1943</td>
</tr>
</tbody>
</table>

There are minor cultural and shoreline differences but in general the agreement is good.

64. Comparison with Contemporary Hydrographic Surveys

<p>| | | |</p>
<table>
<thead>
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<th></th>
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<tr>
<td>H-8547</td>
<td>1:10,000</td>
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</tr>
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<td>H-8548</td>
<td>1:10,000</td>
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</tr>
<tr>
<td>H-8550</td>
<td>1:10,000</td>
<td>1960</td>
</tr>
</tbody>
</table>

Shoreline and control of subject surveys was furnished prior to hydrography and as no changes of importance have been made there is good agreement.
65. Comparison with Nautical Charts

558 1:40,000 Nov. 1962

There are only minor differences between the chart and the manuscripts.

66. Adequacy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the required accuracy for Nautical Charting.

Submitted by:

L. O. Lands

Approved by:

Charles Lennon  Leonard D. Taylor
Chief, Cartographic Branch  Chief, Nautical Charts Division

Chief, Photogrammetry Division  Chief, Operations Division
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.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>10166</td>
<td>1/9/64</td>
<td>A. J. Hoffman</td>
<td>Draft No. 557</td>
</tr>
<tr>
<td>12233</td>
<td>6/21/64</td>
<td>D. Black</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No. 45 EXAM NO FURTHER LOAD.</td>
</tr>
</tbody>
</table>

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.