

10667

Original

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Diag. Cht. No. 77-6.

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 P. Randall, Chief of Party	
W. E. Randall, Baltimore District Officer	
LIBRARY & ARCHIVES	
DATE	

USCOMM-DC 5087

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DESCRIPTIVE REPORT - DATA RECORD

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Project No. (II): Ph-161

Quadrangle Name (IV):

Field Office (II): Leonardtown, Maryland

Chief of Party: James P. Randall

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge: W. E. Randall

Instructions dated (II) (III): 9/16/57, 73/rab
Ltr. from Ch. Photo. Div. - 7/23/58, 73/rrj

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
(Pantograph 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):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

~~Mean sea level as determined by the~~ MHW
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): CHESTNUT, 1908

Lat.: 38° 09' 49.126" (1,514.7 m) Long.: 76° 25' 06.511" (158.5 m)

Adjusted
~~Unclassified~~

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.

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

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INAPPLICABLE

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

DESCRIPTIVE REPORT - DATA RECORD

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Field Inspection by (II): James P. Randall
Robert S. Tibbetts
Mathew S. Stewart

Date: June 1958 thru
September 1958

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

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. Kuncis

Date: May 1959

Planimetry E. L. Rolle
Stereoscopic Instrument compilation (III):

Date: 9/21/59

~~Radial Plot~~

Date:

scribed
Manuscript ~~Radial Plot~~ 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):

Date:

DESCRIPTIVE REPORT - DATA RECORD

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

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

Number	Date	Time	Scale	Stage of Tide
55-W-2374 thru 2376	11/12/55	13:16	1:30,000	1.5' above MLW
55-W-2415	"	14:23	"	1.2' " "
58-S-7511	1/5/58	13:00	1:40,000	1.5' " "
52188 and 52189	11/12/55	11:18	1:10,000	1.5' " "

Tide (III)
(From Predicted Tables)

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

Ratio of Ranges	Mean Range	Spring Range
	2.9'	3.3'
0.52	1.5'	1.7'

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

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:
Number of Recoverable Photo Stations established (III): None Identified:
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T-10667 PROJECT NO. Ph-161 SCALE OF MAP 1:10,000 SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR μ -COORDINATE LONGITUDE OR λ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
CALVERT MONUMENT 1908	MD p. 105	NA 1927	129,467.61 962,069.44				
ST. MARY'S EPISCOPAL CHURCH CROSS, 1908	G. 5461 p. 257A	"	38° 11' 14.695 76 26 07.288				
SLEEP, 1908	MD p. 121	"	121,972.13 966,523.34				
CHESTNUT, 1908	"	"	120,825.08 967,208.74				
CHURCH, 1908	"	"	118,855.75 964,273.83				
ST. INIGOEES CHURCH CROSS, 1908	G 5461 p. 257A	"	38 09 00.708 76 25 27.629				
FLAGPOLE (MSFC) 1908	MD p. 143	"	107,032.58 962,583.20				
ROCK R.M. (MSFC) 1908	MD p. 302	"	121,301.21 964,578.49				
BROME RM (MSFC) 1908	MD p. 669	"	38 10 53.594 76 26 04.865				
DUSKY RM (MSFC) 1908	MD p. 669	"	38 09 46.072 76 25 43.686				
COTTAGE RM (MSFC) 1908	"	"	38 09 37.062 76 25 52.306				
RALEY, 1908	MD p. 121	"	117,430.52 962,653.29				

1.000

[illegible]

DATE 7/7/59

COMPILATION REPORT

Ph-161

T-10667

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 stereo-planigraph 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

Geographic Names Standard, dated 19 June 1959.

Topographic - Utility and Property Survey of St. Mary's Seminary, Jr. College, scale 1:480, dated 27 September 1949.

Map of Naval Auxillary 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. Marys 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 Landing 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

Chart No. 557, scale 1:40,000, 7th edition, November 7, 1960, corrected to November 12, 1960.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted



Edward L. Rolle
Carto. (Photo.)

Approved and forwarded



William E. Randall
CDR, C&GS
Baltimore District Office

PHOTOGRAMMETRIC OFFICE REVIEW

T. 10667

1. Projection and grids B 2. Title B 3. Manuscript numbers B 4. Manuscript size B
5. Classification label B

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy B 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) B 7. Photo hydro stations B 8. Bench marks —
9. Plotting of sextant fixes — 10. Photogrammetric plot report B 11. Detail points B

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline B 13. Low-water line B 14. Rocks, shoals, etc. B 15. Bridges — 16. Aids to navigation — 17. Landmarks — 18. Other alongshore physical features B 19. Other along-shore cultural features B

PHYSICAL FEATURES

20. Water features B 21. Natural ground cover B 22. Planetable contours — 23. Stereoscopic instrument contours — 24. Contours in general — 25. Spot elevations — 26. Other physical features B

CULTURAL FEATURES

27. Roads B 28. Buildings B 29. Railroads — 30. Other cultural features B

BOUNDARIES

31. Boundary lines B 32. Public land lines —

MISCELLANEOUS

33. Geographic names B 34. Junctions B 35. Legibility of the manuscript B 36. Discrepancy overlay — 37. Descriptive Report B 38. Field inspection photographs B 39. Forms B
40. W. M. Pratt Henry J. Eicher
Reviewer Supervisor, Review Section or 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:

48. Geographic Names:

Beachville
Broom Creek
Broomes Wharf

Church Cove
Church Creek

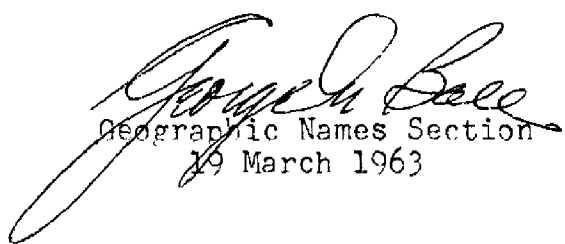
Jutland Creek
Jutland Neck

Lanrley 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, T-10665 thru T-10667,
T-10672 and T-10673

April 1963

61. General Statement

These are eight (8) planimetric maps of project PH-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

T-8137	1:20,000	1943
T-8138	1:20,000	1943
T-8139	1:20,000	1943
T-8147	1:20,000	1943

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

Piney Point, Md.	1:24,000	U.S.G.S.	1943
St. Marys City, Md.	1:24,000	U.S.G.S.	1943
St. George Island, Md.	1:24,000	U.S.G.S.	1943

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

64. Comparison with Contemporary Hydrographic Surveys

H-8547	1:10,000	1960
H-8548	1:10,000	1960
H-8550	1:10,000	1960

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. C. Lande
L. C. Lande

Approved by:

Charles L. Leman Sam G. Taylor
Chief, Cartographic Branch Chief, Nautical Charts Division

J. E. Waugh 6/18/63 Howard S. Conerly
Chief, Photogrammetry Division Chief, Operations Division

