

8112

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

CHARLOTTE HALL, MD.

N 3822.5 - W 7645.0 / 7.5

Type of Survey Air Photographic Topographic

Field No. ~~XXX~~ Office No. T-8112

LOCALITY

State Maryland

General locality Chesapeake Bay (Western Shore)

Locality Charlotte Hall (~~XXXXXX~~)

1943

CHIEF OF PARTY

F. L. Gallen

Fred. L. Peacock

LIBRARY & ARCHIVES

DATE October 6, 1944

B-1870-1 (1)

DATA RECORD

T-8112

Quadrangle (II): Charlotte Hall (7 $\frac{1}{2}$ Minute Quadrangle)
 Project No. (II):
~~Wicomico (15 Minute Quadrangle)~~ N3822.5-W7645.0/7.5 CS-278-A
 Field Office: Chief of Party:
 War Mapping Field Party No. 1 Wm. D. Patterson
 F. L. Gallen
 Compilation Office: Chief of Party:
 Baltimore Field Office Fred. L. Peacock
 Instructions dated (II III): Copy filed in Descriptive
 March 4, 27; June 5, 24; 1942 Report No. T- (VI)
 Aug. 13, 27; September 3, 4; 1942
 Completed survey received in office: - February 26, 1943
 Reported to Nautical Chart Section: - February 27, 1943
 Reviewed: 5/14/43 Applied to chart No. Date:
 Redrafting Completed: 8/28/43
 Registered: October 6, 1944 Published: February 15, 1944
 Compilation Scale: Published Scale: 1:31,680
 1:20,000
 Scale Factor (III):
 none
 Geographic Datum (III): N.A. 1927 Datum Plane (III): Mean Sea Level
 Reference Station (III): Ryceville, 1942
 Lat.: 38° 26' 09.339" 288.0m Long.: 76° 49' 56.982" 1382.0m Adjusted
 (1562.0) (73.2) ~~Unadjusted~~

State Plane Coordinates (VI):

Not available

X =

Y =

Military Grid Zone (VI) "A" and "B"

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
Nine Lens				
8880 - 8883	4/14/42	1:02 - 1:06p.m.	1:20,000	1.7' above M. L. W.
8884 - 8886	4/14/42	1:07 - 1:09p.m.	1:20,000	1.7' above M. L. W.
Single Lens				
AHX 11-2 to AHX 11-10	4/24/38	unknown	1:20,000	unknown
AHX 10-159 - AHX 10-167		unknown	1:20,000	unknown
AHU 30-4	8/28/37	unknown	1:20,000	unknown
AHU 22-87 to AHU 22-94	6/28/37	unknown	1:20,000	unknown
AHU 4-5 to AHU 4-17	6/23/37	unknown	1:20,000	unknown
AHU 4-51 to AHU 4-55	6/23/37	unknown	1:20,000	unknown

Tide from (III): Tables of Predicted Tides, reference station Wash., D. C.
with time correction for Bushwood, Wicomico River, Md.

Mean Range: 1.9 ft. Spring Range: 2.2 ft.

Camera: (Kind or source) U.S. Coast & Geodetic nine lens camera (focal length 8 1/4") 9" x 9" single lens - Soil Conservation Service, contact Prints
9" x 7" single lens - U. S. Dept. of Agriculture

Field Inspection by: Horizontal Control: R. D. Trace date: May-June, 1942
Shoreline: R. D. Trace July, 1942

Cultural Features: W.A. Rasure, G.B. Bowker July-Dec., 1942
Field Edit by: date:

Louis Levin

Date of Mean High-Water Line Location (III):

Date as given on above mentioned photographs

Projection and Grids ruled by (III) Washington Office date: Aug. 30, 1942

" " " checked by: Washington Office date: Sept. 2, 1942

Control plotted by: Charles C. Tropp date: Sept. 7, 1942

Control checked by: George O. Fellers date: Sept. 9, 1942

Radial Plot by: J. Edward Deal, Jr. date: Sept., 1942

Detailed by: Harold R. Brooks date: 9/18-10/15/42
Contours by: Charles C. Tropp Feb. 25, 1943

Reviewed in compilation office by: Henry P. Eichert date: Nov., 1942 &
Feb. 25, 1943

Elevations on Field Edit Sheet
checked by: L.G. Chambers date: 3/21/43

STATISTICS (III)

Land Area (Sq Statute Miles): $55\frac{1}{2}$

Shoreline (More than 200 meters to opposite shore): 2 Statute Miles

Shoreline (Less than 200 meters to opposite shore): 1 Statute Mile

Number of Recoverable Topographic Stations established: 10 Stations

Number of Temporary Hydrographic Stations located by radial plot:

none

Statute

Leveling (to control contours) -/miles: 50.5

Roman numerals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks: Contours by: W. A. Rasure & Gordon Bowker, July 1942-Jan. 1943

FIELD INSPECTION REPORT
QUADRANGLE T-8112
Project - CS-278-A
F. L. Gallen, Chief of Party

1. DESCRIPTION OF AREA - The Wicomico River, a tidal stream, cuts across the southwest corner of this quadrangle and all of the drainage is to the above river except for a small area in the northeast corner of the quadrangle which drains east to the Patuxent River. Adjacent to the Wicomico River the land has a gentle slope for about 1/2 mile and then rises steeply to an upland which was originally flat to gently rolling but is now badly cut-up by numerous stream valleys and gullies. The land is rugged adjacent to all of the major streams due to the greater erosion as compared to other areas, but near the headwaters of the streams there is a noticeable decrease in the number of deep draws. Most of the valleys are of the type encountered with mature stream erosion, being u-shaped with a flat gradient in the lower part and V-shaped with a steep gradient near the head. Most of the larger valleys have perennial streams flowing in the bottom, the streams being spring or seepage fed at the source. The elevation of the upland varies between approximately 150 and 180 feet, with a maximum of about 200 feet in one locality.

Considerable land is cleared and farmed, either in the wide bottoms of some of the major streams or on top of the ridges between the valleys, but the cleared land is not uniformly distributed and there are a few large timbered areas. The area not cleared is moderately to heavily timbered with pine and deciduous trees and brush. Pine trees predominate on the ridges and deciduous trees in the valleys.

There are no extensive marsh areas in this quadrangle. A small amount of marsh is found at the mouth of Budds Creek. Gilbert Swamp shown on the old U. S. Geological Survey quadrangle sheet is now mostly cleared and farmed or else used for pasture land.

2. COMPLETENESS OF FIELD INSPECTION - The field inspection is complete on most items. The marsh at the mouth of Budds Creek was not outlined on the photograph. A new highway is being constructed east of Maryland State Highway No. 5 and some houses are being moved. The new highway and adjacent buildings should be field inspected on the Map Manuscript. A few road names will be added to the Map Manuscript.
3. INTERPRETATION OF PHOTOGRAPHS - The photographs are typical for areas of this type.??
4. HORIZONTAL CONTROL - Same as for T-8143.

5. VERTICAL CONTROL - Same as for T-8148.

A few elevation points were found misplaced on the photographs and were corrected.

The location of AL 19 was indefinite and this elevation was rejected in the level record.

6. CONTOURS AND DRAINAGE - Same as for T-8148.

By W. M. Rasure - Southwest part of quadrangle.

Streams were drawn in under a stereoscope and also all draws that could be seen. In the open regular planetable topography was done but in the woods a different system was used. A planetable traverse was run and adjacent contours were sketched and elevations were spotted in the stream bottoms and identified so that they could be recovered by a two-man party using an Abney level. The area to be contoured by the level party was then outlined on a piece of acetate, the adjacent contours, streams, vegetation changes, trails, etc. being transferred to the acetate. The hand level party then traversed the draws measuring distance with a graduated rope and elevations with an Abney hand level and plotting on the acetate placed over a 100 foot grid drawn on a sketch book cover. At intervals short side lines were run out and the adjacent contours sketched in. The vertical closure was usually within 2 feet and the system was not used in an area where ground control was not available. An alternative system was used when working on one photograph where a spare copy of the same photograph was available. Here the spare photograph was cut in pieces and used in place of the acetate, the distances being scaled off with dividers. This system is preferable to using the acetate as more control is available to the hand level party.

While the hand level party was sketching out the draws the two-man planetable party traversed the outer edge of the woods and the more accessible areas. The Locke hand level was used to obtain supplemental elevations in draws.

All contours were checked at night under the stereoscope before being inked and any apparent discrepancy corrected. It was found that stereopsis was aided by the field inspection.

Drainage was checked in the field where possible, either by planetable traverse or by measuring from the edges of pines, etc. and no stream was found to be more than 100 feet out in location, and the larger errors were usually found in wide, flat bottomed valleys where the streams could meander from side to side.

There were no large vertical traverse closures and the average was about 0.5 feet. Some vertical traverses were closed on marsh areas or on M.H.W. and the elevation obtained was about 2 feet in these instances.

About 0.2 mile south of triangulation station RYCEVILLE, in an open field and on top of a hill there was a magnetic attraction that prevented the use of the Declinatoire and the table was oriented by recognizable features on the photograph.

By Gordon Bowker - All except southwest part of quadrangle.

Streams were drawn in under a stereoscope and were checked in the field. Some streams not visible under the stereoscope were located by a traverse and others were checked by reference to vegetation changes.

The acetate was used for supplemental sketching the same as outlined above. Some times the Locke hand level and pacing were used for control and sometimes the Abney hand level and a graduated rope were used for control. In some heavily wooded areas where identifiable detail was lacking on the photograph supplemental hand level lines were controlled in direction with an Engineers compass and the line was tied to the nearest identifiable point.

No large vertical traverse closures are involved.

7-15. Same as for T-8148.

17. BOUNDARY MONUMENTS AND LINES - The Charles-Saint Marys County Line cuts across this quadrangle. It is partly shown on Photograph No. 8881 and additional boundary monuments were obtained by the horizontal control party. The Original Survey of this Boundary Line is on file at the Saint Marys County Court House and a copy of this survey was obtained and is included with the photographs for this quadrangle.

The Political Districts will be shown on the Map Manuscript.

18. Same as for T-8114.

Submitted by,

G. R. Fish

G. R. Fish,

Lieutenant, U. S. C. and G. S.

Approved and forwarded:

F. L. Gallen

F. L. Gallen,
Chief of Party.

26 Control:

Seven U. S. Coast & Geodetic Survey triangulation stations within the limits of this survey and two stations beyond the limits, were used as control. Those within the limits are:

Airway Beacon No. 11, 1942
(Washington - Norfolk)
Barber, 1908
Charlotte Hall, 1942
Charlotte Hall Tank, 1942
Owens, 1942
Ryceville, 1942
Wheatley, 1942

The triangulation stations just outside the detailed limits are:

Edwards, 1942
Key, 1908

The geographic position of triangulation station "Owens" as plotted from data taken from the list of geographic positions could not be held in the radial plot. To check the listed geographic position, distances to triangulation station "Owens" from four other triangulation stations in the vicinity were plotted, and a discrepancy of 10 seconds of Longitude between the position thus obtained and the listed position was noted. The presence of an error of 10 seconds in the listed geographic position was later confirmed in a communication from the Washington Office.

27 Radial Plot:

The radial plot for this map manuscript is described in Section 2 of the descriptive report for radial plot of Sub-projects CS-278-A and CS-278-D, which has been previously submitted. *Filed in Photogrammetric Section.*

28 Detailing:

Nine lens photographs were used for detailing the entire area of the map manuscript. The single lens photographs obtained from the U. S. Soil Conservation Service were found to be very useful for supplementary reference, especially in locating and identifying buildings which did not show distinctly on the nine lens photographs. They were also used for the detailing of areas where relief caused distortion of detail on the nine lens photographs. Field inspection was complete as to elevations, contours, and buildings. Cultural detail and shoreline were in some instances incomplete, but in general were well covered by the field inspection.

29 Supplemental Data:

Previous Survey No. T-1105 covers a small portion of the area of this survey. However, a copy of that survey is not available for comparison with Survey No. T-8112. Tracing of map showing St. Marys Col. Charles County boundary line as surveyed by J. H. Chum, July 29, 1902 and recorded in Liber EBA No. 2 - 526 was furnished by the Field Inspection Party.

30 Mean High Water Line:

The location of the mean high water line was determined from the nine lens photographs. Where field inspection omitted portions of the shoreline, these areas were detailed from office examination of the photographs with the aid of the stereoscope.

31 Low Water & Shoal Lines:

Shoal lines were interpreted from the single lens photographs. There were no low water lines discernible on the nine lens photographs.

32 Details Off-Shore from the High Water Line:

There were no off-shore details discernible on the nine lens photographs.

33 Wharves & Shoreline Structures:

No shoreline structures were visible on the nine lens photographs and none were indicated by field inspection.

34 Landmarks & Aids to Navigation:

There are no data available to the compilation office covering landmarks or aids to navigation for charting in the area of this survey.

35 Hydrographic Control:

There is one recoverable topographic station within the limits of this survey which may be useful for future hydrographic surveys. It is:

Tick, 1942

In addition 4 other recoverable topographic stations have been radially plotted on this map manuscript. They are:

St. Marys - Charles County	
Boundary Line Marker No. $\frac{2}{3}$	1942
Boundary Line Marker No. 3	1942
Boundary Line Marker No. $4\frac{1}{2}$	1942
Boundary Line Marker No. 6	1942

Descriptions for these 5 stations are submitted herewith on Form No. 524.

37 Azimuth Reference Marks:

Four Azimuth Reference Marks within the limits of the survey and one beyond the limits were located by radial plot. Those within the detailed limits are:

Azimuth (Wheatley)	1942
Azimuth (Charlotte Hall)	1942
Azimuth (Owens)	1942
Azimuth (Rycesville)	1942

37 Azimuth Reference Marks: (cont'd)

The Azimuth Reference Mark beyond the detailed limits is:

Azimuth (Edwards) 1942

Geographic positions for these 5 Azimuth Reference Marks are being submitted on Form No. 524.

38 Discrepancy Overlay:

A discrepancy overlay has been prepared to accompany this map manuscript. On it are noted requests for additional information needed to make this map manuscript complete. Such comments, questions, and notes as are deemed likely to be of assistance in the course of the field edit, have also been included. *Filed in photographic section.*

39 Geographic Names:

Geographic names were noted on the 15 min. U. S. Geological Survey. Wicomico Quadrangle by the field inspection party. All geographic names appearing on this map manuscript are undisputed names according to the field inspection. Disputed names tabulated in the attached list were not shown on the map manuscript.

40 Horizontal Accuracy:

Horizontal accuracy of the location of points of well-defined and less well-defined detail is believed to be within the limits set forth in the instructions for Project CS-278, Paragraph 54, dated March 4, 1942.
See page 9 for test comparisons.

41 Recommendation for Future Survey:

The planimetric detail as presented on this map manuscript is believed complete but is subject to field edit for corrections, deletions and additions.

42 Junctions:

The following junctions have been made with survey No. T-8112:

To the South: Survey No. T-8115 - complete
To the West: Survey No. T-8113 - complete

There are no contemporary surveys to the North* or East.

43 Remarks:

**T-8240 to the north has since been completed.*

H. C. Reel 9-8-44

An adequate description of the area encompassed by this survey will be found in Paragraph 1 of the Field Inspection Report.

44 Comparison with existing Topographic Quadrangles:

Because of scale differences, no accurate comparison of this survey with the U. S. Geological Survey Quadrangle of this area is practicable. An approximate comparison reveals several changes in roads and in the drainage of Gilbert Swamp.

45 Comparison with Nautical Charts:

In comparing this map manuscript with Chart No. 558 issued July 29, 1942, no important changes in detail are noticeable.

Respectfully submitted,
February 26, 1943

Harold R. Brooks.
Harold R. Brooks
Senior Engineering Aid

Map Manuscript, Discrepancy
Overlay, & Descriptive Re-
port reviewed by,

Henry P. Eichert
Henry P. Eichert
Junior Photogrammetric Engineer

Compilation of Map Manuscript
Supervised by,

J. Edward Deal, Jr.
J. Edward Deal, Jr.
Asst. Photogrammetric Engineer

and

Joseph Steinberg
Joseph Steinberg
Asst. Photogrammetric Engineer

Approved & Forwarded,
March 1, 1943

Fred. L. Peacock
Fred. L. Peacock
Officer-in-Charge
Baltimore Field Office

FIELD EDIT REPORT
T-8112

46. The field edit was done by visual inspection noting all deletions, additions and corrections on the map manuscript and transferred to a smooth copy while inking.

The inking was done in accordance with the following scheme:

<u>Features</u>	<u>Colors</u>
Additions, bench marks, wye level elevations and crosses	Black
Deletions	Green
Drainage features	Blue
Contours	Brown
Political boundaries	Violet

47. The position and amount of detail is believed to be complete and accurate.

48. Horizontal accuracy tests were run in Quadrangles T-8112^{*} and T-8139.
** Copy of test comparisons on following pages*

The vertical accuracy test is the subject of a report by Lieut. G. R. Fish for Project 278-A.

Submitted by,

Louis Levin per H. G.

Louis Levin,
Photogrammetric Aid.

Approved and forwarded:

F. L. Gallen

F. L. Gallen,
Chief of Party.

HORIZONTAL ACCURACY TEST
PROJECT CS-278-A TRAVERSE LINE NO. 1
QUADRANGLE T-8112

This test consists of a traverse between triangulation stations CHARLOTTE HALL, 1942, and RYCEVILLE, 1942. The traverse is 5.28 statute miles long and the closing error is 0.94 meter or 1 part in 9,000. The closing error was adjusted through the traverse. Sixteen test points were computed. In the tabulation the geodetic position from the traverse computations is referred to as T. No. and the scaled position from the Map Manuscript is referred to as M. No. The "direction of displacement" refers to the direction of the scaled position from the geodetic position.

TABULATION OF TEST POINTS

Description of point	Test Point Number	Latitude	Longitude	Displace- ment in mm.	Direc- tion of dis- placement
SW corner	T. No. 1	38-28-1169.3	76-46-1133.0	.42	ESE
large school building	M. No. 1	1167	1125		
Int. of road	T. No. 2	38-28-671.7	76-46-918.2	.35	SE
and RR. 90 deg.	M. No. 2	666	914		
Int. of road	T. No. 3	38-28-341.4	76-46-800.4	.15	NW
and RR. 80 deg.	M. No. 3	343	803		
Center of house	T. No. 4	38-27-1781.3	76-46-1013.1	.52	NW
	M. No. 4	1789	1020		
Center of sch.	T. No. 5	38-27-1784.4	76-46-1117.6	1.13	SW
	M. No. 5	1767	1132		
Center of house	T. No. 6	38-27-1044.9	76-46-1374.9	.76	SE
	M. No. 6	1034	1364		
Road Inter.	T. No. 7	38-27-793.0	76-46-1439.4	.26	SE
	M. No. 7	789	1436		
Center of house	T. No. 8	38-27-155.1	76-47-210.4	.74	SW
	M. No. 8	144	220		
Road inter. 60 deg.	T. No. 9	38-26-1648.0	76-47-536.8	.34	SSW
	M. No. 9	1642	540		
Center of T-rd. int. 90 deg.	T. No. 10	38-26-1519.0	76-47-619.1	.11	NW
	M. No. 10	1520	621		

- X -

Description of point	Test Point Number	Latitude	Longitude	Displace- ment in mm.	Direc- tion of dis- placement
Center of T-rd. int. - 90 deg.	T. No. 11 M. No. 11	38-26-780.6 779	76-47-1231.9 1238	.31	WSW
Center of house	T. No. 12 M. No. 12	38-26-230.4 228	76-48-299.8 284	.80	ESE
Center of T-rd. int. 90 deg.	T. No. 13 M. No. 13	38-26-190.2 182	76-48-557.1 561	.47	SSW
Center of T-rd. int. 90 deg.	T. No. 14 M. No. 14	38-26-1828.6 1835	76-48-1097.2 1110	.72	NW
Center of T-rd. int. 90 deg.	T. No. 15 M. No. 15	38-26-200.5 205	76-49-714.4 711	.29	NE
Center of T-rd. int. 90 deg.	T. No. 16 M. No. 16	38-26-189.4 195	76-49-1099.2 1097	.30	NNE

Number of test points scaled - 16; number of test points with a displacement exceeding .5 mm. - 5 (31%); maximum displacement - 1.13 mm.

All of the above are well defined points. Of the five points with more than 0.5 mm. displacement, four were buildings and one a road intersection. The maximum error (1.13 mm.) was the Charlotte Hall Elementary School building.

Points M. 1 to M. 9 scaled by T. B. R., checked by E. L. M.
Points M. 10 to M. 16 scaled by E. L. M., checked by P. F. C.

Submitted by,

Thos. B. Reed,
Lieut. Comdr., C. & G. S.

Approved and forwarded:

F. L. Gallen,
Chief of Party.

LIST OF GEOGRAPHIC NAMES

Undisputed

✓ Budds Creek (town)
✓ Burroughs Run
✓ Chaptico Creek
✓ Charlotte Hall
✓ Coffee Hill
✓ Coffee Hill Road
✓ Denton Run
✓ Dubois
✓ Dyson Bridge
✓ Ford Run
✓ Forrest Hall Branch
✓ Gilbert Creek
✓ Hayden Run
✓ Indiantown Run
✓ Jenkins Run
✓ Killpeck Creek
✓ Lacy Run
✓ Locks Swamp Creek
✓ Luckton Landing

✓ Luckton Point
✓ Luckton Run
✓ Newmarket
✓ Oaks
✓ Oaks Run
✓ Oden Run
✓ Orrers Shop
✓ Reavess Creek
✓ River Road
✓ Ryceville
✓ Smoots Pond
✓ Smoots Pond Run
✓ Swamp Run
✓ Thompson's Corner
✓ Trinity Church Run
✓ W. P. & C. R. R.
✓ Wheatley Run
✓ Wicomico
✓ Wicomico River

not here Gilbert

New under Navy

LIST OF GEOGRAPHIC NAMES

Recommended	Disputed
Budds Creek (Stream)	Budd's Creek
/Coffee Hill Run	Gardner's Run
✓St. Mary's Co. (County Line)	St. Marys Co. (vs. G. R.)

Remarks

Decisions

1		383767
2		"
3		"
4		383768
5		"
6		"
7		384768
8		383768
9		382768 USGB
10		383768
11		"
12		"
13		"
14		"
15		384768
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8112

CHARLOTTE HALL quadrangle

No. 1 Name on Survey

	A	B	C	D	E	F	G	H	K	
Chaptico Creek ✓✓										1
Hayden Run ✓✓										2
Forrest Hall Branch ✓✓										3
Coffee Hill Run ✓✓										4
Coffee Hill ✓✓										5
Coffee Hill Road ✓✓										6
Budds Creek ✓✓										7
Budds Creek ✓✓										8
Wicomico River ✓✓										9
Luckton Run ✓✓										10
Luckton Landing ✓✓										11
Luckton Point ✓✓										12
Burroughs Run ✓✓										13
Jenkins Run ✓✓										14
Wicomico ✓✓										15
Oden Run ✓✓										16
Ford Run ✓✓										17
Ryceville ✓✓										18
Trinity Church Run ✓✓										19
Dyson Bridge ✓✓										20
Gilbert Swamp Run ✓✓										21
Olivers Shop ✓✓										22
Wheatley Run ✓✓										23
Gilbert Creek ✓✓										24
Dubois ✓✓										25
Oaks Run ✓✓										26
Smoots Pond Run ✓✓										27

(part of No. 234, Wicomico to Chaptico)

(village)

(small, scattered crossroads settlement)

~~Gilbert Creek~~

Remarks

Decisions

1		384767
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		384768
12		384767
13		
14		USGB
15		Road Maps
16		"
17		"
18		
19		Charles Co. Map
20		"
21		St. Marys Co. Map
22		"
23	Applies to swamp area; Gilbert Swamp Run flows through it and Gilbert Creek is a tributary at its northeastern end.	Gilbert Swamp Run 384768
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No.

T-8112

No. 2

Name on Survey

	A	B	C	D	E	F	G	H	K	
Charlotte Hall										1
Oaks										2
Smoots Pond										3
Newmarket										4
Locks Swamp Creek										5
Thompson Corner										6
River Road										7
Lacy Run										8
Reaves Creek										9
Killpeck Creek										10
Denton Run										11
Newmarket										12
Charles County										13
St. Marys County										14
Md. Highway No. 234										15
Md. Highway No. 232										16
(northward from No. 234, west of Budds Creek)										
Md. Highway No. 236										17
(northeastward from Budds Creek)										
Md. Highway No. 5										18
(under construction)										
Allens Fresh No. 4										19
(political subdivision)										
Bryantown No. 8										20
Mechanicsville No. 5										21
Chaptico No. 4										22
Gilbert Swamp										23
										24
										25
										26
										27

James Underhill in red approved
Heck on 5/4/43

RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

Registered and Filed in the Vault

Cloth-mounted copy of the published quadrangle.

Black and white cloth-mounted copy of the map manuscript. This copy is filed to preserve original survey detail shown on the manuscript at 1:20,000 scale which may not have been shown on the published sheet. For political boundaries, woodland, marsh, and swamp limits, refer to the published quadrangle for the finally adopted positions.

Descriptive Report.

Filed in the Photogrammetric Section - Surveys Branch

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Reviewing Unit.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Copies of specifications and all instructions to field parties and field offices.

Filed in Reproduction Branch

Glass negatives of the color separation drawings.

Filed in the Library

Special report on field work by Commander K. T. Adams, 1944.

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L. Gallen, 1944.

Season's report on field work by Commander R. L. Schoppe, 1944.

Delivered to the Army Map Service in accordance with the contract

Film negatives and film positives of the color separation drawings.

All color separation drawings.

Original celluloid manuscript.

A correction sheet consisting of a copy of the first edition of the quadrangle with notes in red indicating changes desirable at the next printing.

General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project C.S.278-A, was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U. S. Coast Guard. The photographs were taken to the scale of 1:20,000. (This photography was supplemented by the use of single-lens photographs.) Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs.

Contouring by planetable directly on the photographs. Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, drive-ways, and numerous other points identifiable on the photographs.

COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templates) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the Baltimore ~~Tempa~~ Photogrammetric Office.

FIELD EDIT

Comparison of a copy of the manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc.

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blue-line" copies of the manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8112

CHARLOTTE HALL QUADRANGLE

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

Horizontal and Vertical Accuracy

The result of the horizontal accuracy test comparisons is on page 9 of this Descriptive Report. There is no evidence of systematic error. The vertical accuracy is reported satisfactory by the field party in accordance with the test made on a field photograph. This test could not be Previous Surveys identified during review.

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

T-1105	1:20,000	1868-1904	
"Wicomico"	1:62,500	1890	U.S.G.S.

Comparison with Nautical Charts Nos. 558

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

Only small differences in shoreline exist.

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

Only minor corrections were necessary.

Reviewed 5/14/43 By Jack Rihn
under direction of D. H. Benson *DHB*

Inspected by B. G. Jones *BGJ*

Examined and approved:

Robert W. Knaul
Chief, Surveys Branch

K.T. Adams
Chief, Topography Section

J. B. Borden
Chief, Div. of Charts

G. W. Rude
Chief, Div. of Coastal
Surveys

SURVEY NO. T. 8112

Record of Application to Charts

[illegible]

M-216B-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.