

Revised Original

8114

41100

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Topographic
Field No.	Office No. T-8114
LOCALITY	
State	Maryland
General locality	Chesapeake Bay
Locality	Morgantown (Wisconsin)
1942-1943	
CHIEF OF PARTY	
F. L. Gallen	
Fred. L. Peacock	
LIBRARY & ARCHIVES	
DATE	October 6, 1944

## DATA RECORD

T-8114

Quadrangle (II):

Morgantown (7 $\frac{1}{8}$  minute Quad.)

~~Wicomico (15 minute Quad.)~~

Field Office:

War Mapping Field Party No. 1

Compilation Office:

Baltimore, Maryland

Project No. (II):

CS-278-A

Chief of Party:

Lieut. Comdr. Wm. D. Patterson

Lieut. Comdr. F. L. Gallen

Chief of Party:

Comdr. Fred. L. Peacock

Instructions dated (II III):

March 4, 27; June 5, 24;) 1942

Aug. 13, 27; Sept. 3, 4;)

Copy filed in Descriptive  
Report No. T- (VI)

Completed survey received in office: - December 2, 1942

Reported to Nautical Chart Section: *December 3, 1942*

Reviewed: 5/4/43

Applied to chart No.

Date:

Redrafting Completed: 7/14/43

Registered: *October 6, 1944*

Published: February 9, 1944

Compilation Scale:

**1:20,000**

Published Scale: 1:31,680

Scale Factor (III):

**none**

Geographic Datum (III): N.A. 1927 Datum Plane (III): Mean Sea Level

Reference Station (III): Pico, (Maryland) 1929

Lat.: 38° 20' 1.981" 61.1m Long. 76° 57' 17.531" 425.8m Adjusted  
(1788.9) (1031.5) ~~Uncorrected~~

State Plane Coordinates (VI):

### Maryland coordinate system (single zone)

$$X = 812,945.96$$
$$Y = 182,291.48$$

Virginia coordinate system, North zone

$$x = 2,443,196.90$$
$$\bar{x} = 246,701.74$$

Military Grid Zone (VI) "A" &amp; "B"

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
8864	4/15/42	12:36p.m.	1:20,000	1.9' above M. L. W.
✓8865	4/15/42	12:36p.m.	1:20,000	1.9' above M. L. W.
8866	4/15/42	12:36p.m.	1:20,000	1.9' above M. L. W.
8854	4/15/42	12:20p.m.	1:20,000	0.8' above M. L. W.
8855	4/15/42	12:20p.m.	1:20,000	0.8' above M. L. W.
8856	4/15/42	12:20p.m.	1:20,000	0.8' above M. L. W.
8880	4/15/42	12:18p.m.	1:20,000	1.1' above M. L. W.

Tide from (III): Predioted tables, reference station Washington, D. C.

with time corrections for Lower Cedar Point Light, Maryland

Mean Range: 1.4 ft. Spring Range: 1.6 ft.

Camera: (Kind or source) U.S. Coast & Geodetic Survey, nine lens camera  
(focal length 8 $\frac{1}{4}$ " )

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

Cultural features; W.A.Rasure, C.A.Moritz Sept.-Oct., 1942

Field Edit by: and G. B. Wood date:  
Louis Levin March-April 1943

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

Same as date of photographs

Projection and Grids ruled by (III) Wash. Off. W.C.B. date: Sept., 1942

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

Control plotted by: Charles C. Tropp date: Sept. 8, 1942

Control checked by: James A. Merriam date: Sept. 9, 1942

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

Detailed by: Charles C. Tropp Sept. 19, 1942 to  
James J. Brazil date: Oct. 15, 1942

Reviewed in compilation office by: Dec. 29 & 30, 1942  
Henry P. Eichert & January 7, 1943  
Nov. 1942 & Jan. 1943

Elevations on Field Edit Sheet  
checked by: L.G.Chambers date: 3/23/43

### STATISTICS (III)

Land Area (Sq. Statute Miles): 27

Shoreline (More than 200 meters to opposite shore): 22 Statute Miles

Shoreline (Less than 200 meters to opposite shore): 10 Statute Miles

Hydrographic and  
Number of Recoverable/Topographic Stations established:

19 within limits; 10 outside limits

Number of Temporary Hydrographic Stations located by radial  
~~photo~~ intersections:

6 stations

Leveling (to control contours) - miles: 13.3 Statute Miles

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, G.B.Wood; C.A.Moritz; July-November, 1942



FIELD INSPECTION REPORT  
QUADRANGLE T-8114  
F. L. Gallen, Chief of Party  
Project CS-278-A

1. DESCRIPTION OF AREA - The land area north of the Potomac River is a peninsula lying between the Potomac and Wicomico Rivers. Along the Potomac River, and at the lower end of the peninsula there is a wide, flat or gently sloping area lying below, or only slightly above the 20 foot contour, with a small bluff along the Potomac River, and the tidal streams entering the river. Along the Wicomico River this strip is reduced to a relatively narrow width. Back of this flat, or gently sloping land, the ground rises quickly to a maximum elevation of about 150 feet. All of the master streams drain south to the Potomac River, and the high land is cut up by numerous valleys. These valleys are characteristic of the type which are found in a region that has reached physiographic maturity and the gradient is greater near the source and flattens out toward the mouth of the streams. Similarly, the valleys are narrower and more V-shaped along the upper limits of the streams and tend to become more U-shaped at or near the point where the streams have reached base level. The most conspicuous physiographic feature found within this quadrangle are the steep-sided, almost V-shaped, small valleys along the Potomac River north of the Potomac River Bridge.

The majority of the streams are perennial and are fed by springs and seepages near the upper ends of the valleys. With few exceptions all of the larger valleys have flowing streams. In wide-bottom, U-shaped valleys the streams tend to meander from one side of the valley to the other and often split into two or more channels.

The land area south of the Potomac River is relatively flat and varies from slightly above to below the 20 foot contour, with a small bluff along the shoreline of the Potomac River, and the tidal streams entering the river.

Large areas of cleared land are found along both the Potomac and Wicomico Rivers and smaller areas in the center of the peninsula wherever flat land with sufficient fertility is available. The remainder of the area is thinly to heavily wooded with pine and deciduous trees with a heavy undergrowth. Deciduous trees predominate in the valleys and pine trees on the higher land.

2. COMPLETENESS OF FIELD INSPECTION - The field inspection is complete on all items. Prior to the receipt of the clarifying instructions for classifying buildings some buildings, and dwellings, were circled on the photographs, which should have been deleted, but no attempt was made to change the field inspection already completed.

3. to 5. Same as for T-8148.

6. Same as for T-8148.

All streams were drawn in under a stereoscope in the field office and were checked in the field where possible. Some checks were by stadia traverse and others were by pacing where the distance was not too great and the position of the stream fairly well determined. The positions of most streams were found to be within the allowable accuracy as drawn in under the stereoscope, but where the discrepancy was greater than allowable, the position was shifted to agree with the newly determined position.

The bottoms of all valleys as drawn in under the stereoscope were inked on the photograph as intermittent streams. Where perennial streams were found in the valleys the stream was inked in with a solid blue line, but where no stream of sufficient importance for mapping was found in the field the intermittent stream symbol was left on the photograph.

All long planetable traverses were closed vertically within limits varying from a few tenths of a foot to about 1 foot, either on previously established points or on the mean high water line or marsh area along a tidal stream. The elevation of the mean high water line usually varies between 2 and 3 feet above mean sea level for this area.

A 23 foot error was found on one short traverse line north of the Potomac River Bridge, and this was adjusted by shifting all contours one contour interval and correcting the junction with the previous work. The error was discovered at the end of the half-day in which the error originated.

7. to 16. Same as for T-8148.

17. BOUNDARY MONUMENTS AND LINES - The Maryland-Virginia State Line will be added to the Map Manuscript. //

18. GEOGRAPHIC NAMES - A Report covering Geographic Names was submitted by A. J. Wraight. L. H.

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.



- 4 -  
COMPILATION REPORT

26 Control:

The projection was extended beyond the detailed limits of the map manuscript to the west by 4 minutes to include Longitude  $77^{\circ} 44'.04''$

Triangulation Stations Owens, 1934; and Dahlgren Proving Ground, Striped Stack (Va.) 1934 were plotted in the extended area of this projection to control the west sides of photographs Nos. 8854, 8855, and 8856.

Nine triangulation stations are within the detailed limits of this map manuscript, namely:

Boundary Mon. No. 28,	1929
First	1928
Victoria	1934
Picco	1929
Crain	1918
Morgan, R.M. 2	
Lower Cedar Pt. Lighthouse,	1918, 1929
Cuckold R.M. 1	
Admiral (Va.)	1918, 1929, 1934

Fifteen triangulation stations used for the control of secondary points and detail on this map manuscript, fall outside the detailed limits, namely:

Pumpkin Witness Mark,	1929, 1934
Owens, Va.	1934
Persimmon Pt. Shoal Beacon (Va.)	1901
Hickey,	1934
Dahlgren Proving Ground, Striped Stack (Va.)	1934
Mathias Point Shoal Lighthouse,	1928
Club Eccentric,	1934
Key, 1908, M.S.F.	
Cohouck, 1908, M.S.F.	
Burr, 1908, M.S.F.	
Eedling, 1908, M.S.F.	
Gust, 1908, M.S.F.	
Hard, 1908, M.S.F.	
Cobb, R. M. 2	
Boundary Mon. No. 29,	1929, 1934, Va. & Md.

27 Radial Plot:

The radial plot for this map manuscript is part of a combined plot covering several surveys. A report covering the combined plot will be submitted in the near future as part of a complete report for radial plots that were run for sub-project CS-278-A. *Filed in Photogrammetric Section*

28 Detailing:

Fairly complete field inspection of inshore details, including complete contouring data, were furnished this office by the field party. Those portions of the map manuscript such as inshore limits of marsh, location of minor drainage and bluffs were interpreted by stereoscopic examination of the office photographs.



28 Detailing: (cont'd)

Single lens contact prints size 7" x 9" were obtained from the Soil Conservation Service, U. S. Department of Agriculture. These furnished very material aid in detailing buildings and other features where elevation distorted the nine lens photographs.

29 Supplemental Data:

The following surveys covering portions of the area in this survey, have been previously made:

T-859; 860; 861 dated 1847-1862  
T-1105; 1106; dated 1863-1873  
T-2598; 2599; 2600 dated 1898-1903  
T-2730 dated 1904-1932

No copies of these surveys were available for comparison with T-8114.

30 Mean High Water Line:

Partial field inspection of the shoreline was available for use. This served as a guide for interpretation of all the shoreline. The stage of the tide for all photographs was computed before detailing on the shoreline was begun. This facilitated the locating of the mean high water line.

31 Low Water and Shoal Lines:

These were detailed from field inspection notes with the aid of office interpretation.

32 Details Offshore from the High Water Line:

All such details were shown whenever indicated by the field inspection. Items such as duck blinds and piling were detailed and labeled.

33 Wharves and Shoreline Structures:

All wharves, docks, and piers that were visible on the nine lens photographs were detailed. Several of these were selected and cut in as temporary hydrographic signal sites.

34 Landmarks and Aids to Navigation:

No data is available at this office concerning landmarks or aids to navigation for this map manuscript.

35 Hydrographic Control:

Nineteen recoverable hydrographic and topographic stations occur within the limits and 10 stations fall west of the limits of this survey.

Descriptions for these stations have previously been submitted on Form No. 524.

### 37 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, and questionable interpretations, comments, questions, and notes such as are deemed likely to be of assistance in the course of the field edit, have also been included.

### 38 Geographic Names:

All geographic names appearing on this map manuscript are undisputed names according to the field inspection. Disputed names tabulated on the attached list were not shown on the map manuscript. Geographic names were noted on a U. S. Geological Survey quadrangle in the field. Very marked discrepancies between the U. S. G. S. quadrangle and this survey were encountered, particularly with regard to the location of drainage and named creeks. An ozalid print of this map manuscript was obtained from the Washington Office, the questionable locations of names features were noted thereon, and the ozalid together with the field inspection quadrangle were returned to the field party for investigation to clear up these uncertainties.

### 39 Horizontal Accuracy:

Horizontal accuracy of the location of points of well-defined and less well-defined points of detail is believed to be within the limits set forth in instructions for project CS-278, paragraph 54, dated March 4, 1942.

### 40 Recommendation for Future Survey:

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

### 41 Junctions:

The following junctions have been made with survey No. T-8114:

To the North, T-8113.

To the East, T-8115.

To the South, T-8112.

To the West, no survey at this time.

### 44 Comparison with Existing Topographic Quadrangles:

Comparison with the Wicomico Quadrangle U. S. Geological Survey, edition of 1914, was attempted. Due to scale differences, no accurate comparison is practicable.

### 45 Comparison with Nautical Charts:

Comparison with Chart No. 558 dated July 29, 1942, scale 1:40,000 was made.

45 Comparison with Nautical Charts: (cont'd)

This map manuscript will adequately portray topographic details and shoreline structures and should supercede the charted information after the field edit has been made.

This descriptive report supercedes and cancels the descriptive report for T-8114 submitted November 30, 1942.

Respectfully submitted,  
January 7, 1943

Charles C. Tropp  
Charles C. Tropp  
Senior Photogrammetric Aid

Reviewed by,

Henry P. Eichert  
Henry P. Eichert  
Jr. Photogrammetric Engineer

Compilation Supervised by,

Joseph Steinberg  
Joseph Steinberg  
Asst. Photogrammetric Engineer

Approved,

Carl W. A. Supp  
Asst. Photogrammetric Engineer  
Carl W. A. Supp

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

Approved & Forwarded,  
January 11, 1943

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



FIELD EDIT REPORT  
T-8114

46. The field edit was done by visual inspection using the map manuscript in the field and all additions, deletions and corrections were transferred to the 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 on this manuscript is believed to be complete and accurate.

48. A horizontal accuracy test was run in Quad. T-8112. The horizontal accuracy test for the Virginia area is the subject of a report for Project 278-A by L. G. Chambers. The vertical accuracy test is the subject of a report by Lieut. G.R. Fish for Project 278-A.

11. The hydrographic stations at Morgantown, "Hod" and "Low" were found to be aids to navigation. Form #567 has been submitted for them.

17. Due to the controversial nature of the Maryland-Virginia boundary, the exact location was left to be determined by the Washington Office. (Added to manuscript during review)

Submitted by,

*Louis Levin* per *J. L. 9*

Louis Levin,

Photogrammetric Aid.

Approved and forwarded:

*F. L. Gallen*

F. L. Gallen,  
Chief of Party.



28  
25  
KTA  
8.26  
POST-OFFICE ADDRESS:

601-613 Gorsuch Avenue, Baltimore, Maryland

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

1943 JAN - 2 - PM 1:35

Coastal Surveys

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

January 1, 1943

To: The Director  
U.S. Coast and Geodetic Survey  
Washington, D.C.

From: The Chief, Air Photographic Party No.2  
U.S. Coast and Geodetic Survey  
Baltimore, Maryland

Subject: Discrepancy Overlays and Descriptive  
Reports - Surveys T-8113 and T-8114

When the map manuscripts for surveys T-8113 and T-8114 were returned to this office for completion, the discrepancy overlays and descriptive reports previously submitted did not accompany them.

We are now about to prepare the new discrepancy overlays and the new descriptive reports for the completed map manuscripts of these two surveys.

The return of the discrepancy overlays or copies thereof and the canceled descriptive reports is respectfully requested since these will be of considerable assistance to us at this time.

*Fred. L. Peacock*  
Fred. L. Peacock

Chief, Air Photographic Party No.2

*This sheet when returned to  
this office 1/12/42 had not been field  
edited.*



826 4/2

28-PFA  
1990

December 4, 1942

To: Commander Fred. L. Peacock,  
U. S. Coast and Geodetic Survey,  
601 Gorsuch Avenue,  
Baltimore, Maryland.

From: The Director,  
U. S. Coast and Geodetic Survey.

Subject: Topographic Maps, T-8113 and T-8114.

The map drawing for the planimetry of T-8113 was received from your office on November 26 and that for T-8114 was received on December 2. Referring to your letter of December 2, your forwarding of these map drawings in an incomplete state was inexplicable. It was informally understood that one quadrangle was being handled as a special case to provide the field party with the planimetry prior to the addition of contours and it was supposed that T-8113 was that quadrangle.

It is believed that the field edit should not be made until map drawings are complete with contours and based on all of the field inspection notes. Any which can be so completed in the near future should be forwarded to the Washington office so that copies can be made and field edited before the field party departs from this area. Any which cannot be completed before such date will be held for field edit early in the spring.

It is not intended to add the contours to the planimetry in this office. Copies of T-8113 have already been made and forwarded to Lieutenant Fish. Map drawings T-8113 and T-8114 will be returned to your office for completion.

(Signed) J. H. HAWLEY

Acting Director.

(Char Ltr 2:87-1943)

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## LANDMARKS FOR CHARTS

PERMANENT AIDS TO NAVIGATION  
Colonial Beach, Virginia

March 8, 1943

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks, be charted on (~~deleted from~~) the charts indicated.

The positions given have been checked after listing

**F. L. GALLER** - - - - - *Chief of Party*

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. 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.

# LIST OF GEOGRAPHIC NAMES

✓ Bachelor's Hope Point	✓ *Persimmon Point Creek
✓ Banks O'Dee	✓ Potomac Beach
✓ Bluff Point	✓ Potomac River
✓ *Clifton Creek	✓ Potomac View
✓ Cobb Neck	✓ Piccowaxen Creek
✓ Colonial Beach	✓ Shiloh
✓ Goldman Creek	✓ Swan Point
✓ Harris Lot	✓ Swan Point Neck
✓ Issue	✓ *Swindler Creek
✓ Lloyd Drain	✓ Tompkinsville
✓ Lloyd's Point	✓ Trunk Gut
✓ Lone Holly	✓ Wayside
✓ Lower Cedar Point	✓ *Wayside Creek
✓ Morgantown	✓ *Waverly Creek
✓ Middletown	✓ Waverly Point
✓ Middletown Brook	✓ Weir Creek
✓ Neale Sound	✓ White Point
✓ Pasquahansa Pond	✓ Wilkerson Creek
✓ Perry Brook	✓ Wilkerson Wharf
✓ *Persimmon Point	✓ Wise Marsh
	✓ Woodland Point

\*Location questionable as explained in paragraph 38 of this report.

LIST OF GEOGRAPHIC NAMES

Recommended Name

Cuckold Creek

Ditchley Prong

Dolly Bearman's Creek

Laidlow's Ferry

Lloyds Creek

Mount Victoria

Potomac River Bridge

Disputed Name

Curcles Creek

Dooleys Prong  
Sunnyside Prong

Dolly Borman Creek  
Bowman Creek

Ludlow Ferry

Mt. Holly Creek

Cooksey

Morgantown Bridge

T-8114

No. 1

Remarks

Decisions

1		USGB
2		382768
3		" USGB
4		"
5		" USGB
6		"
7		"
8		" USGB
9		382769
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		383769
21		"
22		"
23		"
24		"
25		"
26		"
27		" USGB

# GEOGRAPHIC NAMES

Survey No. T-8114

MORGANTOWN (Md-Va) quad.  
No. 1 Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A	B	C	D	E	F	G	H	K	
Potomac River	✓								1
Potomac View	✓								2
Nenle Sound	✓								3
Issue	✓								4
Cobb Neck	✓								5
Woodland Point	✓								6
Wise Marsh	✓								7
Wicomico River	✓								8
Swan Point	✓								9
Weir Creek	✓								10
Swan Point Neck	✓								11
Lone Holly	✓								12
Colonial Beach	✓								13
White Point	✓								14
Bluff Point	✓								15
Wilkerson Wharf	✓								16
Wilkerson Creek	✓								17
Potomac Beach	✓								18
Goldman Creek	✓								19
Cuckold Creek	✓								20
Bachelors Horse Point	✓								21
Middletown Branch	✓								22
Banks o' Dee	✓								23
Lloyd Creek	✓								24
Lloyd Point	✓								25
Harris Lot	✓								26
Piccowaxn Creek	✓								27

T-8114

No. 2

Remarks

Decisions

1		383769
2		" USGB
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		" USGB
13		"
14		"
15		"
16		383768
17		"
18		"
19		"
20		"
21		" USGB
22		"
23		"
24		
25		
26		Charles Co. Map
27		



# GEOGRAPHIC NAMES

Survey No. T-8114

No. 2

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A	B	C	D	E	F	G	H	K	
Perry Branch	✓								1
Ditchley Prong	✓								2
Wayside <del>Shiloh</del>	✓								3
Shiloh	✓								4
Waverly Point	✓								5
Waverly Creek	✓								6
Morgantown	✓								7
Lower Cedar Point	✓								8
Lower Cedar Point Lighthouse		✓							9
Pasquahanza Pond		✓							10
Pasquahanza Creek		✓							11
Wayside Creek		✓							12
Laidlow Ferry		✓							13
Potomac River Bridge		✓							14
Trunk Gut		✓							15
Cliffton Creek		✓							16
Lloyd Drain		✓							17
Persimmon Point		✓							18
Persimmon Point Creek		✓							19
Swindler Creek		✓							20
Mt. Victoria		✓							21
Dolly Boarmans Creek		✓		Maddox cr					22
Tompkinsville		✓							23
Middletown		✓							24
Charles County		Md.							25
Westmoreland County		Va.							26
Harris Lot No. 5		Md. political subdivision							27
Washington District		Va.							28



T-8114

No. 3

Remarks

Decisions

1		Road Maps
2		"
3		"
4		
5		"
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# GEOGRAPHIC NAMES

Survey No. T-8114

No. 3

Name on Survey

	A	B	C	D	E	F	G	H	K	
U.S. Highway No. 301		✓								1
Md. Highway No. 3		✓								2
" 229 (Morgantown-Wayside)										3
" 230		✓								4
Va. Highway No. 205		✓								5
Maddox Creek		✓								6
										7
N.B. Par. 38 (page 6) of Desc. Report discusses application of										8
certain names of minor features marked with an * in list										9
of names in report.										10
										11
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										26
										27

Names underlined in red approved  
by L. Heck on 6/5/43

## 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.278A, 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.

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 ~~Temp~~ 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-8114

MORGANTOWN 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

See the Descriptive Report for T-8112 for an attached copy of the result of the closest horizontal accuracy test comparisons. There is no evidence of systematic error. The closest vertical accuracy test was performed on T-8113 on a field photograph. This test was reported satisfactory by the field party; it could not be identified during review.

Previous Surveys

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-859	1:20,000	1862	
T-860	1:20,000	1862	
T-1105	1:20,000	1868	
T-2599	1:20,000	1902	
T-2600	1:20,000	1902	
T-2730	1:20,000	1905	
"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:

The Virginia-Maryland boundary line was added in red ink to the manuscript during review. The source of information for the location of the Virginia-Maryland boundary is the "Report on the Marking of the Boundary Line Along the Potomac River in Accordance with the Award of 1877", Mathews and Nelson, 1930. This report is filed in the Library.

Reviewed 5-4-43

By H. H. Belling

under direction of D. H. Benson *M.B.*

*per H.E.B.*

Inspected by B. G. Jones *B.G. Jones*

Examined and approved:

Robert W. King  
Chief, Surveys Branch

J. B. Borden  
Chief, Div. of Charts

K. T. Adams  
Chief, Topography Section

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