

5809

5809

Form 504 Rev. June 1941	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Air Photographic Plane Table Hydrographic	Survey No. T-5809 (Field)
LOCALITY	
State <u>Maryland</u>	
General locality <u>Cheasapeake Bay</u>	
Locality <u>Choptank R. - Warwick R. to</u>	
<u>Blinkhorn Creek - Cabin Creek</u>	
<u>1942</u> and vicinity	
CHIEF OF PARTY	
Lieut. L.W. Swenson	

Applied to chart 1225 Nov. 24, 1942
compared Feb. 17, 1944

G.H.S. (before review)
J.M.A. (after review)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.
T5809

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. T-5809

REGISTER NO.

State Maryland
General Locality Chesapeake Bay- Eastern Shore
Locality Choptank River from Warwick River to Blinkhorn Creek
Scale 1:10,000 Date of survey Nine lens-March 12, 1940
Vessel Air Photographic Party No. 2
Chief of party Lieut. L. W. Swanson
Surveyed by Field inspection by J. Lajoie- Fall 1941
Inked by R. P. Lathrop (rough draft)
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line interval feet
Instructions dated 3/31/38, 6/1/38, 6/19/38, 8/28/39, 19
Remarks: ~~XXXXX~~ Map drawing completed to limits except
on eastern boundary.

DATA RECORD T-5809

PHOTOGRAPHS

Nos.	Date	Time	Scale	Alt.	Stage of tide*
4772-4792	3/12/40	12:06-12:26	1:10,000		0.11' below M.L.W.

*Tide from predicted tables. Mean between Cambridge and Dover Bridge on the Choptank River. Mean range 1.7'. Reference station Baltimore, Md.

Camera....U.S. Coast & Geodetic Survey nine lens .
Focal length $8\frac{1}{4}$ inches.
Negatives on file in the Washington Office.

SUPPLEMENTAL SURVEYS

Graphic control surveys.....none
Hydrographic surveys.....none
Field inspection by.....J. Lajoye, Fall 1940
Name investigation by.....J. Lajoye, Fall 1940
The detail on this map drawing is of the date of the above listed photographs.

GENERAL INFORMATION

Chief of Party.....Lieut. L.W. Swanson
Projection by....Washington Office,rule mach.....Date unknown
Projection checked by..Washington Office.....Date unknown
Hydrographic signals pricked on office photos by..R.P. Lathrop
Control plotted by W. VanLoon.....3/12/41
Control checked by..W.E. Schmidt & J.E. Deal.....1941
Additional control plotted by..R.P. Lathrop.....2/26/42
Additional control checked by..Lieut L.W. Swanson.....2/27/42
20,000 radial plot by...W. VanLoon.....1940
10,000 radial plot by....(1st)..I. Zeskind.....Date unknown
10,000 radial plot by....(2nd)..W.E. Schmidt & J.E. Deal..1940
10,000 radial plot by....(3rd, partial)..J. Steinberg.....1942
Secondary control by.....W. VanLoon.....1940
Radial points by.....W. VanLoon.....1940
Additional radial points by.....R.P. Lathrop.....2/9/42
Detail,rough draft(shoreline and interior) by..R.P. Lathrop..3/1/42 to
5/11/42
Scale-1:10,000
Preliminary review by.....

STATISTICS

Area (land).....23.0 sq. statute miles
Shoreline(more than 200 meters from opp. shore)..15.6 statute miles
Shoreline(less than 200 meters from opp. shore)..14.0 statute miles
Roads, trails, streams and ditches.....144.8 statute miles
Time required for detailing(shoreline and interior,rough draft) 45 days

REFERENCE STATION

Morris, 1934 North American Datum-1927 (adj.)
Latitude 38° 38' 58.204" 1794.7 m.
Longitude 76° 01' 01.582" 38.3 m.

Maryland system of plane coordinates $X=1,080,707.87$ Ft, $Y=298,139.27$

DESCRIPTIVE REPORT

to accompany

Air Photographic Survey Map Drawing No.T-5809

STATE OF MARYLAND

Chesapeake Bay.....Eastern Shore.....Choptank River

Date of this report.....5/15/42

INSTRUCTIONS:

This rough draft map drawing is a part of project No.HT-215 dated May 13,1938 and supplemental instructions contained in the Director's letters dated 3/31/38, 6/1/38, 6/19/38, and 8/28/39.

CONTROL:

The control consists of the following stations shown by the triangulation symbol:

U.S.C & G. sta. outside boundary of sheet:

Morris, 1934 (supplemented by F.I.S. "Turk" & "Rey")

Navratel, 1934 (supplemented by F.I.S. "Pine Bush")

Windsor, 1934 (supplemented by F.I.S. "Pear")

E. New Market, water tank, 1934

Maryland Shell Fish Sta. within boundary of sheet

Blind, 1909

Raccoon, 1909

House, 1909

Myrtle, 1909

PHOTOGRAPHS:

For photographs used on this map drawing see "DATA RECORD".

RADIAL PLOT:

Two special reports have been submitted, describing in detail the procedure followed in laying the radial plot of this map drawing. One a report of the 20,000 plot and the second the main 10,000 plot. It is recommended that these two reports be consulted when this map drawing is reviewed. ^{Special Report Swanson, L.W. 1941/124 (Library)}

After the above two plots were layed and points established on this map drawing four additional Maryland Shell Fish stations were recovered and located on the photographs. These were then located on the map drawing by the radial line method. Stations Raccoon and House were within one meter of their computed positions. Stations Myrtle and Blind were considerably in error. The station Myrtle was again field inspected and an error in the original field inspection was found. The correct position of Myrtle was then again pricked on the photographs and its position was then determined graphically by the radial line method. This position then checked with the computed position. The plot for this map drawing was again relayed using the above mentioned additional control. It was found necessary to change several former points (20,000 and 10,000). After laying this last plot the results obtained were considered accurate enough to proceed with the detail.

RADIAL PLOT(cont.):

Listed below are the photographs used and the degree of their tilt:

Photo. No.	Tilt	Photo. No.	Tilt
4772	0° 53'	4780	0° 21'
4773	none	4781	2° 01'
4774	0° 32'	4788	none
4775	unknown	4789	2° 47'
4777	none	4790	2° 11'
4778	none	4791	none
4779	1° 04'	4792	1° 11'

DETAILING:

The area within the western half of this map drawing was covered by a sufficient number of photographs but the eastern half was covered by only one flight and due to tilt and paper distortion of some of these photographs difficulty was encountered in detailing the greater part of the eastern half of this map drawing. No single lens photographs were on hand for use in detailing this section. The detail was of course carried as far eastward as possible keeping in mind the allowable error permitted for map drawings.

Drainage on this map drawing was examined under the stereoscope when there was any doubt as to its location.

Wherever possible all buildings along the shoreline were shown. It is believed that all buildings in the interior part of this map drawing have been shown except the small out buildings. In places where trees obscured the position of the houses or other buildings no attempt was made to show them on this map drawing.

All roads over six meters in width were labeled as to size and class. Those not labeled as to width are to be detailed to six meters.

All trails were shown with the dash symbol----- or labeled.

All fences were labeled or shown thusly----x---x----x

All ditches were labeled.

Intersections that could not be defined as of a rough draft were shown as of a smooth draft.

The use of the projector was very helpful in detailing this map drawing.

All field inspection photographs were used and faithfully referred to in the detailing of this map drawing.

Approximate limits of shoal water are shown with a dash line (acid ink-black) for use of the hydrographer only.

State and federal highways were labeled. Information from Maryland State Highways Maps.

FIELD INSPECTION:

Field inspection by J. Lajoie in the Fall of 1941.

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GEOGRAPHIC NAMES:

Geographic names shown on this map drawing are listed on form M234 in the appendix.

Geographic names were investigated by J. Lajoie in the Fall of 1941.

BRIDGES:

There are two bridges over navigable streams on this map drawing. One over the south branch of Warwick River and the other over Cabin Creek. They are both fixed bridges. Other data appears on the map drawing.

RECOVERABLE HYDROGRAPHIC & TOPOGRAPHIC ^{station}~~SIGNALS:~~

XX

A tank (elev. water) in the town of Secretary on the Warwick River.

This is submitted on form 524 in the appendix.

Shown with $2\frac{1}{2}$ mm. black acid ink circle on the map drawing.

This station is changed to triangulation station (1942)

LANDMARKS FOR CHARTS:

A tank (elev. water) in the town of Secretary on the Warwick River. This landmark for charts is shown on the map drawing with a $2\frac{1}{2}$ mm/ black ink (acid) circle. Position is submitted on form 567 in the appendix.

It is recommended that any additional landmarks be selected by the hydrographic party.

JUNCTIONS:

This survey joins the following map drawings:

T-5810 on the north. Junction is in good agreement as far as the detail has been completed on T-5810 up to the date of this report.

No map drawing is to the east of this survey.

T-5717 on the west. At latitude $38^{\circ} 37'$ and longitude $76^{\circ} 01'$ a single dash line is shown on T-5809 whereas on T-5717 a hedge is shown. Check on field photographs shows single dash line with trees on both sides. It is recommended that T-5717 be corrected to agree with T-5809. All other points common to the junction of these two map drawings were in good agreement.

T-5808 on the south. Junction in agreement.

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COMPARISONS WITH PREVIOUS CHARTS AND SURVEYS:

T-2495-In protected areas little change was noted along the shoreline. In unprotected areas the following changes were noted that were considered to be of some importance:

Latitude 38° 36' 790 meters and longitude 75° 57' 900 meters, the shoreline has receded about 9.0mm.

Latitude 38° 36' 1470 meters and longitude 75° 57' 830 meters, the shoreline has built out about 4.0 mm.

Latitude 38° 36' 1780 meters and longitude 75° 57' 670 meters, the shoreline has receded about 6.0mm.

T-2495- Interior detail that was common to both map drawings seemed to be in fair agreement.

T-254- Latitude 38° 38' 1340 meters and longitude 75° 57' 1400 meters, the shoreline has receded about 7.0mm.

Latitude 38° 38' 1790 meters and longitude 75° 57' 1240 meters, the shoreline has receded about 8.0mm.

Latitude 38° 39' 930 meters and longitude 75° 57' 950 meters, the shoreline has receded about 7.0mm.

Latitude 38° 39' 1200 meters and longitude 75° 57' 130 meters, the shoreline has receded about 7.0mm.

Latitude 38° 39' 350 meters and longitude 75° 59' 300 meters, part of a neck of land at this point has been washed away and a small island has formed.

The majority of streams in the marsh areas along the Choptank River have changed their courses.

Chart No. 1225- A fixed bridge now crosses Cabin Creek at latitude 38° 37' 1670 meters and longitude 75° 56' 1180 meters. No other comparison was made with this chart due to the scale.

RECOMMENDATION FOR FUTURE SURVEYS:

The detail on this map drawing is believed to be complete in all importance for charting and no additional surveys should be required.

The probable error of radial points and well defined objects along the shoreline is not greater than 0.5mm. The error of other detail of importance on this map drawing is probably not greater than 1.0mm. where the radial points have been determined by three or more photographs.

Respectfully submitted,

R.P. Lathrop
R.P. Lathrop

Photogrammetric Aid (Field)

Preliminary Review W.F. Schmidt

Forwarded
Approved

Date:.....

June 2, 1942
L.W. Swanson
Lieut. L.W. Swanson, Chief of Party.

Remarks

Decisions

1	Pending with U.S.G.B. apply Warwick River pending its decision.	386759
2		"
3		"
4		"
5	* Shown on U.S. Geological Quad. (Hurlock) as Blinthorn Creek.	
6	Referred to U.S.G.B. but apply Blinthorn Creek pending its decision	U.S.G.B.
7		"
8		386762
9		386759
10		"
11	stream in NW corner of sheet.	"
12	* Delaware R.R., Cambridge Br. (P.R.R. System)	← Railway Guide
13		
14		
15		
16		
17		
18		
19	2-H.M. Webster 50 years resident 3-Harold Todd 27 years resident 4-Joseph Wanex 60 years resident	
20	on N. side Cabin Creek, as far as Blinthorn Cr.	386759
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No.

T-5809

Name on Survey

	On Chart No. 1225	On previous survey No. 2-2495	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	
✓ Warwick River	x	A	X 2-3-4	C					1
✓ Secretary	✓	A	X 2-3-4	D					2
✓ Cabin Creek	✓	A-B	X 2-3-4	C-D					3
✓ Cabin Creek (Town)	✓		X 2-3-4						4
✓ Blinkhorn Creek	✓		*X 2-3-4						5
✓ Wright Wharf	✓		X 2-3-4						6
✓ Jamaica Point	✓	A	X	C					7
✓ Choptank River	✓		X						8
✓ Raccoon Creek	✓		X						9
✓ Bruceville	✓		X	C					10
Miles Creek	✓								11
✓ Cambridge & Seaford R.R. (P.R.R. System)			2-3-4	*D					12
Daily Railroad Cambridge R.R. (P.R.R. System)									13
U.S. Highway #331				D					14
✓ State Highway #307				D					15
✓ State Highway # 16				D					16
✓ State Highway #14				D					17
State Highway # 342				D					18
									19
Cabin Creek Neck ✓									20
									21
									22
									23
									24
									25
									26
									27

LANDMARKS FOR CHARTS

TO BE CHARTED } **STRIKE OUT ONE**

Baltimore, Md.

May 16, 1948 193

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.

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." 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.

DIVISION OF CHARTS

SURVEYS BRANCH

Review of Air Photographic Survey T-5809

Radial Plot:

The plot is discussed on page 1 of the descriptive report, with reference to a detailed report on radial plotting for this entire area. The conditions were unusual. The plot has not been checked in detail in this office, but is accepted as given an accuracy of 1.0 millimeter for well-defined points.

Field Inspection and Map Detailing:

Shortly after completion of the manuscript for T-5809 it was used as a base map for surveys of topographic maps T-8243, T-8244, and T-8250. The quadrangles were carefully field edited and were published prior to completion of the review of T-5809. The quadrangles have been compared with T-5809 and this has resulted in correction of interior details on this planimetric map. These corrections included revision of stream lines and addition of buildings, particularly at the town of Secretary.

Comparison with Previous Topographic Surveys:

Refer to page 4 of the descriptive report. T-5809 is adequate to supersede the sections of the following surveys which it covers:

T-2495	(1900)	1:20,000
T-254	(1848)	1:20,000
T-253	(1848)	1:20,000

Comparison with Chart 1225:

T-5809 was applied to this chart prior to this review. Changes in T-5809 during the review are shown in red on the celluloid manuscript.

Reviewed by W. W. St. John

Under direction of D. H. Benson

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

Charles Pease
Chief, Nautical Chart Br.

K.T. Adams
Chief, Section of Topography

H.B. Borden
Chief, Division of Charts

G.F. Lunde
Chief, Division of Coastal
Surveys