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Form 501

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey **Planimetric Map**

Field No. **T-5810** Office No. _____

LOCALITY

State **Maryland**

General locality **Choptank River**

Locality **Choptank and Vicinity**
Photographs taken 1937 and 1940.
Supplemented by ground surveys to
1941.

1941

CHIEF OF PARTY

Lieut. L. W. Swanson

LIBRARY & ARCHIVES

DATE **Aug 20 - 1946**

Applied to Chart 1225
Compared 1225

Nov. 24, 1942
Feb. 17, 1944

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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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-5810

REGISTER NO.

State Maryland

General locality Chesapeake Bay - Eastern Shore

Locality Choptank River from Barker Creek to Hunting Creek

Scale 1:10,000 Date of survey Nine-lens Mar. 12, 1940

Party ~~Wessex~~ Air Photographic Party No. 2

Chief of party Lieut. L. W. Swanson

Surveyed by Field Inspection by J. Lajoie - Fall, 1941

Inked by H. P. Eichert (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: Map Drawing Completed to limits except on northern and eastern boundaries.

DATA RECORD T-5810

PHOTOGRAPHS

<u>NUMBER</u>	<u>DATE</u>	<u>TIME</u>	<u>SCALE</u>	<u>ALT</u>	<u>STAGE OF TIDES</u>
4769 to 4770	Mar. 12, 1940	12:06-12:26	1:10,000		*0.3ft. above M.L.W.
4782 to 4783	Mar. 12, 1940	12:06-12:26	1:10,000		*0.3ft. above M.L.W.
4786	Mar. 12, 1940	12:06-12:26	1:10,000		*0.3ft. above M.L.W.
4841 to 4842	June 30, 1940	8:40- 8:47	1:10,000		*0.7ft. above M.L.W.
4771 to 4772	Mar. 12, 1940	12:06-12:26	1:10,000		**0.1ft below M.L.W.
4780 to 4781	Mar. 12, 1940	12:06-12:26	1:10,000		**0.1ft below M.L.W.
4787 to 4789	Mar. 12, 1940	12:06-12:26	1:10,000		**0.1ft below M.L.W.
75-93	Dec. 11, 1937	Time Unknown	1:10,000		
75-94	Dec. 11, 1937	Time Unknown	1:10,000		

*Tide from predicted tables for Baltimore, Md., with correction to Dover Bridge, Md. Mean range 2.0 feet.

**Mean between Cambridge and Dover Bridge used for determining stage of tide. Mean range 1.7 feet.

Camera: U.S. Coast and Geodetic Survey Nine Lens (Focal length, 8 1/4 inches)
Negatives on file in the Washington Office

SUPPLEMENTAL SURVEYS

Surveys
 Graphic Control Sheets.....None
 Hydrographic Surveys.....None
 Field Inspection By.....J. Lajoie.....Fall, 1941
 Name Investigation By.....J. Lajoie.....Fall, 1941

The detail of this map drawing is of the date of the above listed photographs.

GENERAL INFORMATION

Chief of Party.....L. W. Swanson
 Projection by Washington Office...Ruling Machine
 Projection checked by.....Washington Office
 Hydrographic signals pricked on
 office photos by.....J. E. Deal.....June, 1941
 Control plotted by.....William H. VanLoon.....Mar. 12, 1941
 Control checked by.....J. L. Rihn.....July 25, 1941
 20,000 radial plot by.....J. E. Deal, W.E.Schmidt,
 W. A. Rasure.....Aug., 1941
 10,000 radial plot by.....J. E. Deal, W.E.Schmidt,
 W. A. Rasure.....Aug., 1941
 10,000 radial plot by.....(2nd partial) J. Steinberg...Feb. 1942
 Secondary Control by.....J. E. Deal, W.E.Schmidt,
 W. A. Rasure

GENERAL INFORMATION (CONTINUED)

Radial points by.....J. E. Deal.....June, 1941
 Additional radial points by.....H. P. Eichert.....Feb, Mar, April
 Detail rough draft (shoreline & interior) by.....H. P. Eichert.....Mar. 1, 1942¹⁹⁴¹
 Descriptive report by.....H. P. Eichert.....June 10, 1942¹⁹⁴¹
 Preliminary review by.....W. E. Schmidt

STATISTICS

Area (land).....18.0 Sq. Statute Miles
 Shoreline (more than 200 meters from opposite shore)...18.0 Statute Miles
 Shoreline (less than 200 meters from opposite shore)...5.6 Statute Miles
 Roads, trails, streams, and ditches.....131.3 Statute Miles
 Time required for detailing (shoreline and interior)
 rough draft.....50 Days

REFERENCE STATION

Lloyd, 1934 North American Datum - 1927 (adj.)

Latitude 38° 41' 51.709" 1594.4 (255.7) m.
 Longitude 75° 59' 56.412" 1363.3 (86.5) m.

X coordinate: 1,085,685.24 FT.
 Y " 316,346.32 FT.

DESCRIPTIVE REPORT
TO ACCOMPANY
AIR PHOTOGRAPHIC SURVEY MAP DRAWING NO. T-5810
STATE OF MARYLAND
CHESAPEAKE BAY...EASTERN SHORE...CHOPTANK RIVER

Date of this Report

June 10, 1942

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 March 31, 1938, June 1, 1938, June 19, 1938, and August 28, 1939.

CONTROL:

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

U.S.C.&G. Stations within the boundary of this map drawing

- Preston Water Tank, 1934
- Navstatel, 1934 (supplemented by F.I.S. "Pine Bush")
- Lloyd, 1934 (supplemented by F.I.S. "Tree")

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: a report of the 20,000 plot; a report of 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)*

In addition, this map drawing was re-layed with map drawing 5809, and several minor control points adjusted to make proper junction.

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

<u>Photo No.</u>	<u>Tilt</u>	<u>Photo No.</u>	<u>Tilt</u>
4769	0° 31'	4783	1° 01'
4770	0° 50'	4786	1° 34'
4771	0° 41'	4787	None
4772	0° 53'	4788	None
4780	0° 21'	4789	2° 47'
4781	2° 01'	4841	None
4782	2° 53'	4842	1° 04'

DETAILING:

The lack of sufficient photographs made it impossible to complete this map drawing. As a result, an area in the northeast section has not been detailed. In order to detail the eastern portion of this map drawing, it was necessary to utilize the outer wings of several nine lens photos. Some difficulty was encountered in detailing accurately the upper east portion of this survey due to tilt, especially photo #4782. However, it is believed that the accuracy of the detail in this area is within the limits of error.

Whenever possible, all buildings along the shoreline ^{are} shown. Buildings in the interior ^{are} shown except small out buildings. Where trees obscured the position of houses or other buildings, no attempt was made to show them on this map drawing.

All roads over six meters in width are labeled as to size and class. Roads not labeled as to size are to be shown six meters in width.

All trails are shown by the dash symbol (——).

All fences are labeled or shown by the symbol (——~~X~~——~~X~~——~~X~~——).

All ditches are labeled (dch)

Road intersections that could not be defined by rough draft are shown by smooth draft.

Drainage was examined under the stereoscope as an aid to its location when it could not be located otherwise.

The projector was used frequently in detailing.

All field inspection photographs were used and faithfully referred to.

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

State and federal highways are labeled. Information from the Maryland State Road Maps.

FIELD INSPECTION:

The field inspection was made by J. Lajoie in the fall of 1941.

GEOGRAPHIC NAMES:

Geographic names shown on this map drawing are listed on form M-234 in the appendix.

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

BRIDGES:

There is one bridge over a navigable stream (near the mouth of Hunting Creek). This is a retractable type bridge. Other information for this bridge appears on the map drawing. Two other wooden fixed bridges appear on this map drawing; one over Miles Creek; and the other over Marsh Creek.

HYDROGRAPHIC SIGNALS:

A number of objects have been located on this map drawing for use as hydrographic signals. These objects are shown by black acid ink, circles 1.5 mm. in diameter.

RECOVERABLE TOPOGRAPHIC AND HYDROGRAPHIC STATIONS

Several objects have been located on this map drawing for use as recoverable hydrographic and topographic stations and are shown by black acid ink circles, 2.5 mm. in diameter.

Submitted on form 524 in the appendix.

LANDMARKS FOR CHARTS:

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

JUNCTIONS

This survey joins the following map drawings: T-5809 on the south...This junction has been completed and is in good agreement; T-5714 on the west...This junction is not entirely in agreement. The detail that is not in agreement is shown on map drawing T-5810, and it is recommended that T-5714 be corrected accordingly. T-5811...This map drawing has not been completed and, therefore, no junction has been made.

Note map drawing is to the east of this survey.

COMPARISON WITH PREVIOUS CHARTS AND SURVEYS

T-254

The shoreline in general and all streams and creeks are in poor agreement.

COMPARISON WITH PREVIOUS CHARTS AND SURVEYS: (Continued)

T-254

A retractable bridge now crosses Hunting Creek at Lat. 38° 40' 62" and Long. 75° 56' 30".

Chart No. 1225

Retractable bridge, mentioned above, not shown. No other comparison was made because of scale difference.

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

Respectfully submitted,

Henry P. Eichert
H. P. Eichert
Ass't Photogrammetric Aid (Field)

Preliminary Review By:

W. G. Schmidt

Forwarded:

Approved:

Date:

June 19, 1957
L. W. Swanson
Lieut. L. W. Swanson
Chief of Party

GEOGRAPHIC NAMES

Survey No.

T-5810

Name on Survey

	A	B	C	D	E	F	G	H	K
	On Chart No. 1225	On previous survey No. T-254	On U. S. quadrangle Maps	From local information	A-Talbot County B-Caroline County	C-Talbot County D-Caroline County	P. O. Guide of Map Rand McNally	U. S. Light List	
✓ Choptank (town)	X		X	5,6		D			1
✓ Windyhill	X		X		A	C			2
✓ Choptank River	X	X	X		A,B	C,D			3
✓ Hunting Creek	X	X	X	2,3,4		D			4
✓ Marsh Creek		X	X	5,6,7		D			5
✓ Miles Creek			X	5,6		C			6
✓ Barker Creek			X						7
✓ Skeleton Creek		*X	X	5,6,7		D			8
✓ Lloyd Landing	X		X	5,6					9
✓ State Highway #324					B				10
									11
									12
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Remarks.

Decisions

1		386759
2		"
3		386762
4		386759
5		"
6		"
7		387760
8	* Shown on old survey T-254 as Skilton Creek	386759
9		386759 U.S. G. B.
10		
11		
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14		
15		
16		
17		
18		
19		
20	2 H.M. Webster 50 years res.	
21	3 Harold Todd 27 years res.	
22	4 Joseph Wanex 60 years res.	
23	5 W. E. Dillon 40 years res.	
24	6 J. F. Spence 50 years res.	
25	7 Mrs. M. Hubbard Life res.	
26		
27		

DIVISION OF PHOTOGRAMMETRY

REVIEW OF PLANIMETRIC MAP T-5810

Radial Plot:

The radial plot is discussed in detail in Special Report No. 124, 1941, by L. W. Swanson, filed in the library. The plot was unusual. Because of scarcity of control, a 1:20,000 scale plot was first made with nine-lens photographs. Pass points located on this plot were then scaled and transferred to the 1:10,000 scale manuscript and used to control the 1:10,000 scale radial plot. Examination in this office indicated that points of well defined detail are located within 1.0 millimeter of true geographic position.

Detailing:

Numerous small changes were made by the reviewer in the interior details such as streams, fences, ditches, and roads. These are shown in red on the manuscript.

Comparison with Previous Topographic Surveys:

T-5810 has been compared with T-254, 1:20,000, 1848, and supersedes that part of the older survey which it covers.

Comparison with Nautical Chart 1225:

T-5810 was applied to Chart 1225 prior to this review, but was compared again with Chart 1225 after review.

Topographic Quadrangles:

T-5810 was compiled in March 1942 but smooth drafting printing, and registration were delayed until 1946 because of war map work of the Bureau. Meanwhile, the Coast and Geodetic Survey produced 1:20,000 scale topographic quadrangle manuscripts of this area for the War Department. The planimetric details from T-5810 were used as a base sheet for contouring quadrangle T-8251, which was completed in 1945. The quadrangle is more recent and more complete for details than T-5810, but is on a smaller scale.

Reviewed by Walter B. Russell, Jr. - April 1943

Under the direction of D. H. Benson

Review report prepared by B. G. Jones from reviewer's
notes - July 1946

Approved by:

B. G. Jones 7/46
B. G. Jones, Technical Asst.
Div. of Photogrammetry

Robert W. Krey
Chief, Nautical Chart Branch
Division of Charts

K. T. Adams
Chief, Div. of Photogrammetry

Raymond P. Egan
Chief, Div. of Coastal Surveys