

5719

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Form 504
Rev. April 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Air Photographic

~~Topographic~~

~~Hydrographic~~

Sheet No. T-5719

State Maryland

LOCALITY

Chesapeake Bay LITTLE CHOPTANK RIVER

Fishing Creek & Little

Choptank River and Vicinity

Photos taken May 1, and July 8, 1937

1937

CHIEF OF PARTY

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.
T5719

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-5719

REGISTER NO.

State Maryland

General locality Chesapeake Bay - Little Choptank River

Locality Fishing creek & ~~Little Choptank River~~ Vicinity

Scale 1:10,000 Date of ~~Survey~~ ^{Photographs} May 1, 1937
July 8, 1937

Vessel Air Photographic Survey Party No. 2.

Chief of party L.W. Swanson

Surveyed by Field Inspection By D.A. Jones J.N. Jones

Inked by W.H. VanLoon

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated May 13, 1938

Remarks: _____

DATA RECORD T-5719

PHOTOGRAPHS

Numbers	Date	Time	Scale	Altitude	Stage of tide
1334-1337	5/1/37	9:14-9:45	1:10,000	Unknown 6700 ft	0.9 ft. above M.L.W.
1341-1343	5/1/37	9:14-9:45	"	"	0.9 ft. above M.L.W.
1418-1419	5/1/37	10:27-10:49	"	"	0.7 ft. above M.L.W.
1422	5/1/37	10:27-10:49	"	"	0.7 ft. above M.L.W.
1655-1657	7/8/37	10:44-11:08	"	"	0.7 ft. above M.L.W.

Tide from prediction tables for Sharps Island, Md. mean range 1.3 ft.
spring range 1.5 ft.

Camera: U.S. Coast and Geodetic Survey nine lens camera.

Focal length of $8\frac{1}{4}$ inches.

Negatives on file in Washington office.

Single lens pictures covering about seventy percent of this sheet were obtained from the Department of Agriculture. They were originally to a scale of 1:20,000 but have been enlarged to a scale of 1:10,000 and now measure $18\frac{1}{2}$ inches square. They were taken on May 1, 1938. The time of day, stage of tide, altitude of flight, and focal length of camera are unknown.

The numbers of these photographs which were usable for either detailing or strengthening of radial points on this sheet are as follows: ANJ 29-4 to ANJ 29-6 ANJ 14-18 to ANJ 14-22, ANJ 14-32 to ANJ 14-36.

SUPPLEMENTAL SURVEYS

Graphic control surveys -----None
Hydrographic surveys -----None
Field inspection ----- D.A. Jones J.N. Jones

The details on T-5719 are of the date of the photographs shown above.

GENERAL INFORMATION

Chief of Party ----- L.W. Swanson
Projection by ----- Washington Office J.P. Dunich
Control plotted by ----- J.L. Rihn ----- 1/23/41
Control checked by ----- C. Supp ----- 1/25/41
Radial plot by ----- N. Kaslow & J.L. Rihn ----- 2/15/41
Radial points pricked by ----- W.H. VanLoon ----- 1/15/41
Additional points by ----- W.H. VanLoon ----- 3/20/41
Shore line inked by ----- W.H. VanLoon -----
Detail inked by ----- W.H. VanLoon -----
Scale ----- 1:10,000 (no scale factor)

Total work days on detailing shoreline ----- 20 days
Total work days on detailing interior ----- 32 days

STATISTICS

Area (land) ----- 35.0 sq. statute miles
 Shoreline (more than 200 meters from opposite shore) 24.5 statute miles
 Shoreline (less than 200 meters from opposite shore) 18.0 statute miles
 Roads, streams, and trails ----- 185.0 statute miles
 Time required for detailing shoreline ----- 17 working days
 Time required for detailing interior ----- 32 working days

REFERENCE STATION

Church, 1934 *03.157" 973* Datum: North American 1927 (adjusted)
 Latitude 38° 30' ~~07.8~~ (~~1762.8~~ meters)
 Longitude 76° 09' ~~579.6~~ (~~874.8~~ meters)
23.920 579.6

Maryland system of plain coordinates: $X = 1,041,357.91 \text{ ft}$ $Y = 244,217.58 \text{ ft}$

DESCRIPTIVE REPORT
to accompany
AIR PHOTOGRAPHIC SURVEY SHEET NO. T-5719
STATE OF MARYLAND
CHESAPEAKE BAY

Date of this report ----- June 20, 1941

INSTRUCTIONS:

The topography on this sheet is part of Project HT-215, the instructions for which are dated May 13, 1938.

CONTROL:

The control consists of ten stations shown on this sheet by the triangulation symbol. The following is a list of the control. Church, 1934. Harrington, 1934. Town, 1934. Jackson, 1934. Mary, 1910. Etta, 1910. Laney, 1910. Ross, 1910. Seth, 1901. (R.M.) Madison Spire, 1901.

This sheet also had secondary control points obtained from a radial plot of 1:20,000 scale control sheet.

RADIAL PLOT

A radial plot of 1:20,000 scale control sheet No. 4 was made by the customary celluloid template method. Good radial points were transferred from this plot to the 1:10,000 scale sheets T-5716, T-5719, and T-5720.

Tilt was computed for practically every 1:10,000 scale photograph in the area covered by these sheets. The amount of tilt for the photographs whose centers fall on T-5719 are as follows:

1418	---	XXXXXXXXXX	0° 38'
1419	---	tilt inappreciable but wings badly twisted	
1334	---	1'	08'
1335	---	2°	26'
1336	---	2°	08'
1337	---	0°	31'
1341	---	0°	50'
1342	---	inappreciable	
1343	---	XXXXXXXXXX	0° 45'
1655	---	0°	53'
1656	---	0°	57'
1657	---	2°	13'
1422	---	1°	12'

When the 1:10,000 scale templates were made, the isocenter was the origine of radials for pictures with 0° 50' or more of tilt, while the mechanical center was the origin of radials for pictures with tilt less than 0° 50'. Therefore mechanical centers of the less tilted pictures were pricked on the smooth sheet and isocenters of pictures tilted 0° 50' or more were pricked.

unnecessary to correct for tilts of less than 2° and the radial point probably would have been the best radial center though this is debatable in flat country. JMG

RADIAL PLOT: (continued)

The laying of the 1:10,000 radial plot of which this sheet is part was accompanied with considerable difficulty due to apparent twist in the wings of the photographs, and it was considered advisable to lay some of the single lens photographs and out in additional radial points from them in order to strengthen points which cut in weakly from the 1:10,000 plot. The single lens photos which could be laid with satisfaction are listed below, and their mechanical centers are shown with large double purple circles.

ANJ 14-18	ANJ 14-33
ANJ 14-19	ANJ 14-34
ANJ 14-20	ANJ 14-35
ANJ 14-21	ANJ 14-36

Nine lens photo. No. 1419 which covers a large portion of the southwest corner of this sheet could not be laid, but it is thought that by making use of the above mentioned single lens photos. the radial points and detailing on this portion of the sheet is probably as accurate as that in any other part of the drawing.

SCALE:

The scale of this sheet is 1:10,000. there is no scale factor.

DETAILING:

The interior detailing of this sheet was for the greater part accomplished by making use of the single lens photos. as they showed no appreciable tilt and were more nearly to scale than the nine lens photos.

The shoreline, and in many cases the houses, showed sharper on the nine lens photos which therefore were used in this phase of detailing.

The stereoscopes were freely used to examine all drainage on this sheet. However, due to the low and swampy condition of most of this part of the country, in many cases the courses of streams were found to be quite confusing and often entirely untraceable, therefore in cases where sufficient doubt existed the streams were left out altogether.

COMPARISON WITH PREVIOUS SURVEYS:

Chart No. 1225 --- The shoreline on this chart agrees as well as can be determined by ordinary observation, as the great difference of scales would not permit a detailed comparison.

Topographic Survey No. 2561 --- The detail as a whole on sheet No. 2561 appears to be approximately twenty meters to the north and twenty meters to the east of that on sheet No. T-5719 and taking this difference into account, the shoreline on both sheets, with the exception of minor changes, agree exceptionally well. A detailed account of disagreements not considering the above mentioned difference is as follows.

COMPARISON WITH PREVIOUS SURVEYS (continued)

Topographic survey No. 2561 --- Shoreline at tip of Cherry Point has eroded southward about 30 meters.

South and west shoreline of Fishing Creek has moved southward an average of 30 meters and westward an average of 20 meters.

East shoreline of Fishing Creek from Lat. 38 32' 400.0m to Lat. 38 32' 750.0 m. has eroded eastward an average of thirty meters.

West shoreline of Madison Bay has moved south and west an average of 20 meters.

Eastern shoreline of Ross Neck has moved westward an average of 20 meters.

All southerly indentations along the south shoreline of Little Choptank River have moved westward an average of 20 meters.

Both shorelines of Smith Cove have moved westward an average of 20 meters.

Both shorelines of Church Creek have moved southward an average of 20 meters.

Both shorelines of N.E. branch of Little Choptank River have moved southward and westward an average of 30 meters.

Both shorelines of S.E. branch of Little Choptank River have moved southward and westward an average of 30 meters.

All interior detail on this sheet agrees within 50 meters with that on T-5719, azimuths of fences and minor roads showing the greatest amount of distortion. Maryland State Hwy. No. 16 which is the principal road on this sheet and runs completely across the sheet from East to West agrees almost perfectly as to both azimuth and location.

Projection lines based on N.A. 1927 Datum were plotted on Topographic Sheet No. 2561 in order that a more accurate comparison could be accomplished.

JUNCTIONS:

Good junctions were made ^{with} map drawing T-5716 on the north, T-5715 and T-5718 on the west, Map drawing T-5720 on the east has not been detailed yet, and there is no drawing south of ~~XXX~~ T-5719.

GEOGRAPHIC NAMES:

The geographic names appear on the overlay sheet and are also listed on form M234 in the appendix.

LANDMARKS:

Form 567 --- Landmarks to be charted will be found in the appendix of this report, it is recommended that any additional landmarks be chosen by a ~~boat~~ ^{hydrographic} party.

REMARKS:

This sheet is believed to be complete in all detail of importance for charting and no additional surveys are required.

ERROR:

The probable error is not greater than five meters for radial points shown in red on the back of this sheet and well defined objects along the water front. The error of other detail is not greater than ten meters.

Respectfully Submitted,

William H. Van Loon

William H. VanLoon
Senior Photogrammetric Aide (field)

Forwarded/ approved:

Lee Swanson
Chief of Party:

6/27/41

Remarks

Decisions

1		385762 U.S.G.B
2	Tobacco Stick Bay	385762
3		385762
4		385762
5		385761
6		(385761)
7		(385761)
8		384760-61
9		385762
10		385762
11		385761
12	* M ^o Keils Pt. ** M ^o -Keil Pt.	See McKeil Pt., below
13		385762 U.S.G.B
14		385762
15		Submitted to U.S.G.B Pending their action
16	Milton P.O.	385762 apply Woolford as name of P.O.
17	Church Cr. P.O.	385761
18	Dalesville P.O.	385761 U.S.G.B
19		385760
20		385761
21		385762
22		(385761)
23	* M ^o Keils Pt. ** Cherry Pt. *** Cherry Pt.	385762 U.S.G.B
24		
25		385762
26	Names underlined and approved	
27	by L. Heck on 9/18/41	

GEOGRAPHIC NAMES

Survey No. T-5719

GEOGRAPHIC NAMES		Survey No. T-5719									
Name on Survey	On Chart No. 1225 On previous survey No. 2561 On U. S. quadrangle Maps From local information State Hwy. Map of Dorchester Co. 1938 On local Maps P. O. Guide or Map Rand McNally Atlas U. S. Light List Local Sign										
	A	B	C	D	E	F	G	H	K		
Little Choptank River	X	X	X		X					1	
Madison Bay		*	X	3	X					2	
Fishing Creek	X	X	X	124	X				X	3	
Church Creek	X	X	X	124	X					4	
Smith Cove			X	124	X					5	
North-East Branch		X								6	
South-East Branch		X								7	
Little Blackwater River			X		X					8	
Ross Neck	X		X							9	
Town Point Pt.	X	X	X	124	X					10	
Pt.											
Town Point Neck	X		X		X					11	
Cherry-Pt.	**	*	X		X					12	
Woolford Neck			X	23						13	
Madison	X	X	X	12	X				X	14	
Woolford P.O.					X					15	
Milton	X	*	X	124	X				X	16	
Church Creek	X	*	X	12	X		X		X	17	
Dailsville	X	*	X	124	X					18	
Christs Rock			X	14	X					19	
Windmill Pt.	X	X	X	24				X		20	
Cedar Pt.	X	X	X	14						21	
North Branch		X	X							22	
Mc Keil-Pt.	X	*	**	123	***					23	
Salt Works Bar								X		24	
South Branch										25	
										26	
										27	
										M 234	

REVIEW OF AIR PHOTO COMPILATION NO. T-5719

Chief of Party: L. W. Swanson

Compiled by: W. H. Van Loon

Project: HT 215

Instructions dated: May 13, 1938.
3/31/38; 6/1/38 and 8/28/39

1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b, ~~d~~, e, ~~f~~ and ~~g~~; 26; and 64)
2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 ~~d~~, n)
- ~~4~~. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d, e)
There are no ground surveys.
- ~~4~~. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)
None are forwarded with this map drawing.
- ~~4~~. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.
There are no contemporary surveys.
6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; ~~44~~; and 66 c, ~~d~~, ~~e~~)
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and ~~44~~)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs." W-87

- ~~8.~~ The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)
9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. ~~28~~, ~~38~~, and 57) Form 524 is not submitted with this survey. Natural objects located for hydrographic purposes are described on the overlay sheet.
10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)
- ~~11.~~ All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c) Where are no bridges over navigatable waters.
12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U. S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and ~~65~~)
13. The geographic datum of the compilation is N. A. 1927 and the reference station is correctly noted.
14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66f)
15. The drafting is satisfactory and particular attention has been given the following:
1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report.
 2. The degrees and minutes of Latitude and Longitude are correctly marked.

3. All station points are exactly marked by fine black dots.
4. Closely spaced lines are drawn sharp and clear for printing.
5. Topographic symbols for similar features are of uniform weight.
6. All drawing has been retouched where partially rubbed off.
7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground.

(Par. 34, 35, 36, ~~37~~, ~~38~~, ~~39~~, 40, ~~41~~, 42, 43, ~~44~~, 45, 46, ~~47~~)

16. No additional surveying is recommended at this time.

17. Remarks:

18. Examined and approved;


Chief of Party

6/27/41

19. Remarks after review in office:

Reviewed in office by:

Examained and approved:

Chief, Section of Field Records

Chief, Section of Field Work

Chief, Division of Charts

Chief, Division of Hydrography
and Topography.

DIVISION OF CHARTS

SURVEYS BRANCH

Review of Air Photographic Survey T-5719

Radial Plot:

For a discussion of the radial plot, refer to pages 3 and 4 of this report. The photographs used were oriented under the map manuscript during this review. The plot does not appear to comply with Coast and Geodetic Survey usual standards. All points are probably within a maximum of 1.2 mm. of their true positions.

Field Inspection and Map Details:

Not all of the photographs used during field inspection were available during this review. The notations made on field prints at hand are incomplete. After careful examination many small changes on detailing were made, especially drainage. These changes are shown in red on the map manuscript.

Contemporary Topographic Surveys:

T-8108, T-8109, T-8242, and T-8243 (1942) 1:20,000

These surveys, although showing less detail, (such as fence and ditch lines) are in good agreement with T-5719.

Previous Topographic Surveys:

T-250, 1847, and T-2561 (1901) 1:20,000

T-5719 is adequate to supersede these old surveys for the area in common. For a detailed discussion of comparison with T-2561 see pages 4 and 5 of this report.

Nautical Charts:

Chart 1225 1:80,000 8-19-42

T-5719 has already been applied to this chart at the date of this review. The changes made during this review and subsequently to the application of T-5719 to chart 1225 are shown in red on the manuscript T-5719.

Reviewed by W. W. Belling

March 31, 1943

Under direction of D. H. Benson

Inspected Bygones 4/19/45

Charles Price
Chief, Nautical Chart Br.

K.T. Adams
Chief, Section of Topography

J.B. Gordon
Chief, Div. of Charts

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

NAUTICAL CHARTS BRANCH

SURVEY NO. 75719

Record of Application to Charts

[illegible]

M-2168-1

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.