

5811

Diag'd on Diag. Ch. No. 77-4

Form 504
Rev. June 1941

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Air Photographic
~~Plane Table~~
~~Hydrographic~~

Survey No. T-5811
(Field)

LOCALITY

State Maryland

General locality Chesapeake Bay

Locality Choptank River

Kings Creek and Vicinity

1942

CHIEF OF PARTY

Commander Fred. L. Peacock

5811

applied to chart 1225 1/4/42 g. H.S. (before review)
after review 2/2/44
g. H.S.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

T5811

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-5811

REGISTER NO.

State Maryland

General Locality Chesapeake Bay

Locality Choptank River

Scale 1:10,000 Date of Photographs March 12,
June 30, 1940

~~Vessel~~ Air Photographic Survey Party No. 2

Chief of party Commander Fred. L. Peacock

Field Inspection by: Jack LaJoye

~~Surveyed by~~

Inked by C. Reese, C. Hamilton, W. VanLoon

Heights in feet above --- to ground to tops of trees

Contour, Approximate contour, Form line interval --- feet

Instructions dated H. T. 215; May 13th, 1938

Remarks: _____

DATA RECORD T-5811

PHOTOGRAPHS

NUMBERS	DATE	TIME	SCALE	ALTITUDE	STAGE OF TIDE
4783-4786	3/12/40	12:15	1:10,000	Unknown	0.7' above M.L.W.
4793	3/12/40	12:36	1:10,000	Unknown	0.6' above M.L.W.
4802	3/12/40	12:48	1:10,000	Unknown	0.6' above M.L.W.
4841-4844	6/30/40	8:45	1:10,000	Unknown	0.7' above M.L.W.

Tide from predicted tables (Dover Bridge, Choptank River) mean range 2.0'; spring range 2.3'.

Camera: U. S. Coast & Geodetic Survey nine lens, Focal Length $8\frac{1}{4}$ ".
All negatives are on file in the Washington Office.

GENERAL INFORMATION

Chief of Party.....Comdr. Fred. L. Peacock
Projection by.....Washington Office.....Date Unknown
Projection Checked by.....Washington Office.....Date Unknown
Radial points pricked by.....J.Edward Deal, Jr.....June, 1941
Additional Radial points by.....Walter E. Schmidt, G.Calvin Reese, Wm.VanLoon
Control Plotted by.....Lt. L. W. Swanson.....July 27, 1941
Control Checked by.....Jack L. Rihn.....July 27, 1941
Radial Plot by.....J.Edward Deal, Jr.....July, 1941
 Wm. A. Rasure.....July, 1941
 Walter E. Schmidt.....July, 1941
Shoreline Inked by.....G.Calvin Reese; Wm. VanLoon.....August, 1942
Detail Inked by.....G.Calvin Reese; Wm. VanLoon &.....Aug-Sept-'42
 Charles N. Hamilton.....Aug.-Sept.'42
Preliminary review by.....Wm. H. Van Loon.....
Completed by.....Wm. H. Van Loon.....

STATISTICS

Area (land).....	23.0	sq. Statute Miles
Shoreline (more than 200m. from opposite shore).....	16.3	statute miles
Shoreline (creeks).....	92.4	statute miles
Roads, streets, and trails.....	77.3	statute miles

REFERENCE STATION

Kingston, 1934

North American Datum 1927 (adj)

Latitude ~~38° 46' 1607.2 (243.0)~~ 38° 46' 52.12" (1607.2m)
Longitude ~~75° 57' 1373.0 (75.2)~~ 75° 57' 56.883" (1373.0m)

x coordinate: 1,094, 816.58 FT.
y " " 346, 840.21 FT.

DESCRIPTIVE REPORT
TO ACCOMPANY
AIR PHOTOGRAPHIC SURVEY NO: T-5811
STATE OF MARYLAND
CHESAPEAKE BAY, CHOPTANK RIVER

Date of this report

September 10, 1942

INSTRUCTIONS:

The topography on this map drawing is part of Project HT-215D, the instructions for which are dated May 13, 1938; and the Director's letter of August 28, 1939.

CONTROL:

One control station falls within the limits of this map drawing.

U. S. C. & G. S. Kingston, 1934 North American 1927 (adj.)

A field inspection station was located for this station that could be picked direct, called "Gable" Kingston.

This survey was mainly controlled from the radial plot of 20,000 - *a scale?* photographs. Refer to Special Report 20,000 scale Radial Plot, previously forwarded to Washington Office. *Special Report; Swanson, L.W., 1941/124 (Library)*

SCALE PLOT:

No scale plot was run for this survey, and the projections were ruled to a scale of 1:10,000.

DETAIL:

All buildings except small out-buildings were shown. Buildings in the southeast corner of this map drawing, within an area outlined with red ink, were difficult to detail as to their exact shapes, due to excessive layover, and shadows caused by the necessity of working well out into the wings of the photographs, and some discrepancies may be expected in this area. Attention should also be called to the fact that most buildings and drainage on the pictures suitable for use in detailing, had previously been obliterated by having been covered with orange ink in order to make them visible in the Projector, this made it next to impossible to check these features in most areas previously detailed.

The detailing of this map manuscript was further hampered by the fact that many of the photographs contained considerable tilt. The computed tilt for the several photographs is as follows.

4842 - 1° 40'
4843 - 0° 41'
4782 - 2° 53'
4783 - 1° 01'

4786 - 1° 34'
4844 - 1° 13'
4802 - 1° 14'

Wm. Van Loon

REMARKS:

The probable error is not greater than 0.5mm. for all radial points and well-defined objects in close proximity thereof. The error of other detail of importance is probably not greater than 1.0mm.

JUNCTIONS:

Junctions were made with adjoining map drawings Nos. T-5812, T-5813 & T-5814 on the North, T-5713 on the west, and T-5810 on the South. There are no adjoining sheets on the East.

COMPARISON WITH PREVIOUS SURVEYS:

Comparison was made with Plane Table survey No. T-254 and it is observed that the marsh area protruding from the Southeast bank of the River opposite triangulation Station Kingston, has reduced in size an average of 30m. all around. Marshy shoreline on both sides of River at approximate Latitude $38^{\circ} 47' 20''$ Longitude $75^{\circ} 56' 10''$ has receded an average of 20m. for a distance of 300m. along both shores. West bank of River at curve, approximate Latitude $38^{\circ} 46' 30''$ Longitude $75^{\circ} 58' 20''$ has receded an average of 30m. apparently due to force of current against this shore. South shoreline for about 1500m. Northeast of Dover Bridge has receded an average of 30m. Small streams and interior detail show only fair agreement, while the general agreement of the main shoreline of Choptank River is quite good.

U.S.C. & G.S. Chart No. 1225 could only be visually compared due to the large difference of scales between these two surveys.

LANDMARKS:

There appear to be no landmarks suitable for charting within the area of this compilation.

GEOGRAPHIC NAMES:

A list of geographic names shown on the map manuscript are included on Form M-234 in the appendix.

ADDITIONAL CONTROL POINTS:

Additional control points were pricked on the photographs at convenient intervals where well-defined features allowed identification of these points on the photographs. Points circled with purple ink are ones established by at least three or more cuts, while points circled with green ink are ones established with only two cuts, or with three cuts, but having a small triangle of error within the cuts.

NOTE ON BRIDGE:

Dover Bridge, Choptank River
Type.....Turn Draw
Vertical Clearance 3.4meters
Horizontal Clearance...Easton side 24.5meters. Preston side 24.5meters.
Tender on duty 24 hours (above M.H.W.)

- 4 -

Respectfully submitted,

William H. Van Loon
William H. VanLoon
Sr. Photogrammetric Aide

Reviewed by,

William H. Van Loon
William H. VanLoon
Sr. Photogrammetric Aide

Approved, 9/10/42

L. W. Swanson
L. W. Swanson, Lieutenant
U. S. Coast & Geodetic Survey

Approved & Forwarded,

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

GEOGRAPHIC NAMES

Survey No. T-5811

GEOGRAPHIC NAMES		On Chart No. 1225		On previous survey No. T-254		On U. S. quadrangle Maps		From local information		Hwy. Map On local Maps Caroline Co., Md.		P. O. Guide or Map		Rand McNally Atlas		U. S. Light List	
Name on Survey		A.	B.	C.	D.	E.	F.	G.	H.	K.							
✓	Choptank River	✓	X	X	X		X										1
✓	Dover Bridge	✓	X	X	X		X										2
✓	Kings Creek	✓		X	X	13&14											3
	Mitchell Run	✓			X	8	X										4
✓	Beaverdam Branch	✓			X	13&14	X										5
✓	Crowberry Creek	✓			X	9&10	X										6
✓	Bell Creek	✓			X	9&10	X										7
✓	Hog Creek	✓			X	1&8	X										8
✓	Berry Run	✓			X	9&10	X										9
✓	Dawson Branch	✓			X												10
✓	Fowling Creek	✓			X	8,9,10	11 X		X								11
✓	Kingston Landing	✓	X	*	X	13&14	X										12
	McCarthy Wharf	✓	X	X	*	1,8,9	*										13
✓	B.C. & A.R.R.		X				*	*									14
✓	Ganey Wharf	✓	X		X	9,10,11	X										15
✓	Gilpin Point	✓	X		X	9,11,14	X		*								16
✗	High Bank			X													17
✗	Wings Landing			X													18
✗	Sullivan			X													19
✗	Clarke's			X													20
✗	Cook			X													21
✓	Providence Landing	✓			X	8	X										22
✗	Willis			X													23
✓	Tanyard	✓			X	7&8	X	X	*								24
✓	Newton	✓			X	1,7,8	*	X	X								25
✗	Providence			X													26
✓	Bethlehem	✓				7&8	X	X	X								27

M 234

Remarks.

Decisions

1		386762
2		387759
3		"
4		387759
5		"
6		387759
7		"
8		"
9		"
10		"
11	NE corner of sheet	388759
12	*Kingstown on previous survey No. T-254	387759 U.S.G.B
13	*McCarty Wharf by local information. 1,8&9 Insp. by J. LaJoye	u.s.g.B (1938) =
13	*McCarty Wharf on U. S. Quadrangle Map	387759 McCarty wh
14	*Baltimore & Eastern on Caroline County P. O. Guide.	Railway Guide
14	*Baltimore & Eastern Hwy Map of Caroline County	
15		388759 U.S.G.B.
16	*Gilpin on Caroline County P. O. Guide	"
17		Delete
18		"
19		"
20		"
21		"
22		387759
23		Delete
24	*West Tanyard on Caroline County P. O. Guide.	387759
25	*Smithson by local information 1, 7 & 8 by J. LaJoye	"
26		Delete
27		387759

Notes on sheet 12/19/42
P. L. Heck

REVIEW OF PLANIMETRIC MAP T-5811

Division of Photogrammetry

Radial Plot and Detailing:

The radial plot is described in detail in the Special Report by L. W. Swanson, 1941/1-24 (filed in the library). This plot was accepted as adequate on the basis of the report and was not checked in this office.

The detailing of the manuscript has been verified during this review and a few corrections and additions made in the shoreline of Choptank River and in various interior details. These changes are shown in red on the manuscript.

Comparison with Previous Surveys:

T-5811 has been compared with T-254 (1:20,000) 1848, and is adequate to supersede that section of the older survey which it covers.

Comparison with Nautical Charts:

T-5811 was applied to Chart 1225 in 1942, that is prior to this review. (T-5811 was reviewed in 1943. It was again applied to Chart 1225 after the review in February 1944 - BGJ.)

Subsequent Topographic Maps:

T-5811 was used as a base planimetric map for the field contouring for the preparation of quadrangle T-8260. This was one of the war mapping quadrangles prepared for the War Department between 1942 and 1944.

T-8260, together with all of the war mapping quadrangles, was carefully reviewed and field edited prior to publication. This review and field edit showed no serious errors in the original planimetric base (T-5811). The quadrangle does show contours and additional interior details, particularly buildings, not contained on this planimetric map.

Reviewed under direction of D. H. Benson - 1943

Report prepared from review notes by B. G. Jones - Feb. 1946

Approved by:

B.G. Jones

B. G. Jones, Technical Asst.
Div. of Photogrammetry

Robert W. Kneaf

Chief, Nautical Chart Branch
Division of Charts

K.T. Adams

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