

5715

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

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey **Planimetric Map**

Field No. **T-5715** Office No.

LOCALITY

State **Maryland**

General locality **Chesapeake Bay**

Locality **Little Choptank River
Hudson Creek and Vicinity**

**Photos. taken in 1937-38. Supplemented
by field surveys to 1941**
1941

CHIEF OF PARTY

L. W. Swanson

LIBRARY & ARCHIVES

DATE

5715

Applied to chart 1225 Sept. 1941 H.T.G.

Applied to Chart Comp. 533 Aug. 8, 1942 H.E. MacEwen

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 - 5715

REGISTER NO.

State MARYLAND

General locality Chesapeake Bay - LITTLE CHOPTANK RIVER

Locality ~~Ragged Point to Cook Point~~ HUDSON CREEK

Scale 1 : 10,000 Date of Photos. Nine lens, May 1, 1937.
~~Survey~~ Single lens, May 1, 1938 and July 3, 1938

Vessel Air Photographic Party No. 2

Chief of party L. W. Swanson

Field Inspection by D. Jones (Date Unknown) & J. Jones 8/39

Surveyed by Radial Plot--J. L. Rihn & N. Kaslow 2/10/41.

Inked by J. E. Deal Jr. (rough draft.)

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated 3/31/38, 5/13/38, 6/1/38, 6/19/39, 19
8/28/39.

Remarks: _____

Sheet completed to limits.

DATA RECORD T-5715
PHOTOGRAPHS

Nos.	Date	Time	Scale	Alt.	Stage of tide*
Nine Lens					
1423 to 1427	5/1/37	16:27-10:49	1:10,000	unknown	0.7' above M.L.W.
1429-1430	5/1/37	10:27-10:49	1:10,000	"	0.7' above M.L.W.
1452 to 1455	55/1/37	2:02- 2:09	1:10,000	"	0.2' above M.L.W.
Single Lens					
ANJ 13-14	5/1/38	unknown	1:10,000	"	unknown
13-15	"	"	"	"	"
29-6	"	"	"	"	"
29-7	"	"	"	"	"
29-8	"	"	"	"	"
29-9	"	"	"	"	"

Dept. Agriculture

* Tide from predicted tables, Sharps Island, mean range 1.3 ft., spring range 1.5 ft. Reference station, Baltimore, Md.

Camera: U.S. Coast & geodetic Survey nine lens, Focal length 8 1/2 inches.

Negatives on file in Washington, D.C. Office.

Camera: AAA single lens. Focal length unknown. Photographs were *enlarged* increased from 1:20,000 to 1:10,000

SUPPLEMENTAL SURVEYS

Graphic control surveys-----none

Hydrographic surveys-----none

Field Inspection-----D. Jones (Date unknown) & J. Jones 8/39 *and 4/41 details on*
T 5715 are of the date of the photo graphs.

GENERAL INFORMATION

Chief of Party-----L. W. Swanson

Projection by-----Washington Office---Ruling Machine---J.P.Dunigh---Date Unknown

Projection checked Washington Office---Date unknown.

Hydrographic signals on field inspection photos pricked by---D.Jones, J.Jones, L. W. Swanson and J. N. Kaslow.

Hydrographic signals pricked on office photos by ---J.E.Deal & N. Kaslow 5/41

Control plotted by-----J.L.Rihn--1/24/41

Control checked by-----C.Supp---1/27/41

Radial plot by--- J.L.Rihn and N.Kaslow 2/10/41

Main radial points pricked by---W. Van Loon 1/41.

Additional radial points pricked by---J.E.Deal 3/41

Compiled by---J.E.Deal (shoreline and interior; rough draft)

Preliminary review by-----

STATISTICS

Area (land)-----12.0 Sq. statute miles

Shoreline (more than 200 meters from opposite shore)-----11.8 statute miles

Shoreline (less than 200 meters from opposite shore)-----12.5 statute miles

Roads, trails, streams, ditches-----46.0 statute miles

Total time required for detailing (working days) for shoreline and interior -----29 days

REFERENCE STATION

DOLAN--1934 (adj) N.A. 1927

Latitude : 38° 34' 23.002" (~~1140.8m~~) 709.3 (1140.8)✓

Longitude: 76° 18' 10.187" (~~1205.9m~~) 246.6 (1205.9)✓

Page 80--Geographic positions.

x coordinate: 999,321.65 ft.
y coordinate: 270,149.65 ft.
OK. M. Bell.

DESCRIPTIVE REPORT
to accompany
AIR PHOTOGRAPHIC SURVEY SHEET NO. T - 5715

CHESAPEAKE BAY - RAGGED POINT TO COOK POINT

Date of this report-----May 29, 1941.

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 stations shown on this sheet by the triangulation symbol. The following is a list of the control and its sources:

U. S. C. & G. S.	
DUPONT,	1934
CHRYSLER,	1934
DOLAN,	1934
*STARRET,	1934
BACK,	1910
LOUISE,	1910

* At the time of the original field inspection STARRET, 1934 was recovered. Subsequent field inspection disclosed that the station has been washed out. It was deemed advisable not to delete this station on the rough draft map drawing owing to its value for orienting photographs.

RADIAL PLOT:

The customary celluloid template method was used to determine the positions of radial points. Radial points were pricked on the 1:20,000 scale photographs, templates were made, and the plot for Control Sheet No. 4 was laid. The radial points obtained from this plot were transferred to the 1:10,000 scale smooth sheets Nos. T - 5715, T - 5716, T - 5718, T - 5719 and T - 5720, to be used as secondary control points.

At the first attempt it was found possible to lay a radial plot for four sheets but not including T - 5716. Using the points obtained from this plot and the 1:20,000 scale plot, the amount of tilt was computed on 28 photographs suspected of being tilted appreciably. It was found that 17 of these photographs were tilted in excess of one degree, and that 6 were tilted more than two degrees.

New templates were drawn for all photographs having fifty minutes or more of tilt, using the isocenters as the origin of all radial cuts. It was not found necessary to rerun the plot for T - 5715.

The template for photograph No. 1419 could not be laid. This photograph and the other three photographs in this flight Nos. 1418, 1417, and 1416 seemed to have their outer chambers twisted in relation to the center chamber.

RADIAL PLOT CONTINUED:

Listed below are the tilted photographs used on this sheet and the calculated tilt for each

Photograph No.	Tilt
1452	1 - 22'
1453	2 - 18'
1454	0 - 34'
1426	1 - 22'
1425	1 - 30'

*tilts probably
not large enough
to offset the plot
error*

The relationships of the photo centers and the radial points at the North-South junctions of Sheets Nos. T - 5716 and T - 5719 with sheets T - 5715, T - 5718 and T - 5720 were recorded on three overlapping pieces of celluloid. The making of these overlaps was an attempt to strengthen the accuracy of the maps of the various sheets at these borders and bring the junctions into closer agreement.

No single lens photograph was used in laying this plot.

DETAILING:

The area within this sheet was covered by a sufficient number of photographs but due to tilt and twisted chambers difficulty was encountered in detailing the interior. Bad chambers have been noted on the photographs. Wherever possible single lens photographs were used for the interior detail. All the shoreline was detailed from the nine lens photographs except in the vicinity of Hills Point. As considerable change has developed in this area the single lens photographs were used for this shoreline detail, they being of more recent date.

Owing to the low elevation of the area covered by this sheet the stereoscope was found of little value in examining the photographs for drainage.

During the detailing of this sheet a symbol was used for pine trees that is in error. The symbol shown denotes cypress trees but as all wooded areas have been designated on the sheet the error was not corrected. There are no cypress trees in this area and a note has been added to the smooth sheet to avoid any confusion.

At lat. 38 - 36 - 45 and Long. 76 - 14 - 30 houses, barn and pier shown on the plot of ground between two ditches, road and shoreline are approximate location. Their position was determined from Field Inspection Photograph NO. 1426.

Location of new piers shown on the single lens pictures were detailed from these photographs.

No U. S. Highways appear on this sheet. All state highways have been noted (from late revision of Maryland State Highways Maps-Planning Board.)

Wherever possible all buildings along the shoreline were shown. All buildings in the interior part of this sheet were shown except small outbuildings. The small outbuildings in some few cases were shown where they could be plainly seen and detailed without very much loss of time.

DETAILING (CONTINUED):

All roads were labeled (width and classification).
All fences marked with ("f")
All trails were shown with the proper dashed symbol and were not labeled.
Ditches were labeled.
The use of the projector was helpful in detailing this sheet.
All shoal areas shown on this sheet are approximate.

FIELD INSPECTION:

Field inspection by D. Jones, Lieut. J. Jones and Lieut. L. W. Swanson 8/39 and 4/41.
This sheet was carefully detailed according to this field inspection.

HYDROGRAPHIC SIGNALS:

A number of natural objects have been located on this sheet for use as hydrographic signals. These objects are shown by black circles 1.5 mm in diameter.

RECOVERABLE TOPOGRAPHIC SIGNALS:

No ^{marked} recoverable topographic stations are shown on this sheet as none occur in this area.

RECOVERABLE HYDROGRAPHIC SIGNALS:

No ^{marked} recoverable hydrographic signals are shown on this sheet as none occur in this area.

LANDMARKS FOR CHARTS:

No landmarks for charts are shown on this sheet as few prominent objects occur in this area. This office recommends that the hydrographic party ~~establish and~~ recommend any landmarks for charts for this sheet.

GEOGRAPHIC NAMES:

Geographic names shown on this sheet are listed on form M 234 in the appendix.

JUNCTIONS:

On the North: no junction (water area).
On the East: no junction (water area).
On the South: T - 5718 no junction (water area).
On the west: T - 5716 Junction is in good agreement with this sheet.
T - 5719 Junction is in good agreement with this sheet.

COMPARISON WITH PREVIOUS SURVEYS:

T - 2494: In protected areas and interior there has been little change. In unprotected areas there has been considerable change due to erosion.

T - 2561: Same as T - 2494. Attention is called to Hills Point. Four small islands have developed in this area due to erosion.

COMPARISON WITH PREVIOUS SURVEYS CONTINUED:

Chart No. 1225 No comparison was made due to difference
in scale.

Chart No. 77 Same as Chart No. 1225.

RECOMMENDATION FOR FUTURE SURVEYS:

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

The probable error of radial points and of well defined
objects along the shoreline is not greater than five meters. The error of
inland detail of importance and radial points is not greater than 10 meters.

Respectfully submitted,

J. Edward Deal
J. Edward Deal,
Photogrammetric Aid (Field)

June 2, 1941
Approved:

L. W. Swanson
L. W. Swanson,
Chief of Party.

LOCAL INFORMATION

- 1 - L. R. Slacum, Cambridge, Md.
 2 - W. F. Moore, Oxford, Md.
 3 - James Seward, James, Md.
 4 - H. M. Nevins, Trappe, Md.
 5 - Wm. Kasten Huber, Easton, Md.

Remarks

Decisions

1	* T - 2494 Shows Cooks Point * U. S. Light list ditto	386762 U.S.G.B
2	* T - 2494 shows Cooks Point Cove	386762 U.S.G.B
3	* Also Known locally as Covey Cove	386762
4	* T - 2494 Shows Todd Point	386762 U.S.G.B
5	* T - 2494 Shows Tripps Bay * U. S. Light list Ditto	386762 U.S.G.B
6		385762
7	* T - 2494 Shows Brannocks Bay	385762 U.S.G.B
8		385763
9		385763
10		385762
11		385762
12		385762
13		385762
14		385762
15		385762
16	Should probably be removed from chart	(385762)
17		385762 U.S.G.B
18		385762 USGB
19	* T - 2561 Shows Casons Point * U. S. Light list Ditto	385762
20	Fovrillage apply "Point" in full, not Pt.	386762 USGB
21		385762
22		385762
23		385762
24		385762
25	Names underlined in original	385762 U.S.G.B
26	by L. Heck on 9-17-41	385762
27		

GEOGRAPHIC NAMES

Survey No. T - 5715

Name on Survey	GEOGRAPHIC NAMES									
	Survey No. T - 5715									
	A.	B.	C.	D.	E.	F.	G.	H.	K.	Local Signs
Cook Point	A & B	A*	A	1 & 2				X*		1
Cook Point Cove	A & B	A*	A	1 & 2				X		2
Covey Creek	A & B		A	1, 2 4 & 5						3
Todds Point	A & B	A*	B	3					X	4
Trippe Bay	A & B	A*	A	1 & 2				X*		5
Mills Point			B	1 & 4						6
Brannock Bay	A & B	A*	A	1, 2 4 & 5						7
Hills Point (Now an island)	A & B	B	A	2				X		8
Hills Point Cove			A	2						9
Hills Point Neck	A & B	B		2						10
Thomas				3					X	11
Rioll Cove			A	1, 4 & 5						12
Ragged Island	A & B	B	A	1 & 2				X		13
Ragged Point	A & B	B	A	1 & 4				X		14
Hudson	A & B		A	3	X					15
*Speddens Wharf.	A & B			5						16
Brooks Creek	A & B	B	A	1, 4 & 5						17
Casson Neck	A & B		A	5						18
Casson Point	A & B	*B		1 & 5				*X		19
Hills Point (Village)	A & B		B		X				X	20
Hudson Creek	A & B		B	X	X					21
Ross Neck	A & B		B	X					X	22
Butter Pot Point	A & B	B		1 & 5				X		23
Back Creek	A & B	B	B	2						24
Little Choptank River	A & B	B	B	X						25
James	B		A	3	X					26
										27
										28

REVIEW OF AIR PHOTO COMPILATION NO. T-5715

Chief of Party: L. W. Swanson

Compiled by: J.E.Deal Jr.

Project: HT-215

Instructions dated: 5/13/38
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,c,d,e,g and i; 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 g,n)
3. 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)
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 submitted.
5. 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.
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,h,i)
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."

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. 29, 30, and 57)

Form 524 is not submitted.

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)

This party has not recommended any landmarks for charting.

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)
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. 66j)
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:

It can be noted that a detailed comparison of the two previous surveys covering this area, (T-2494 and T-2561) has not been made. The changes along the exposed shore and the points especially, have eroded several hundred meters, such inland detail common to the two surveys and the Creeks are in good agreement.

After thereview of this map drawing TRIANGULATION STARRET, 1934 should be deleted from the sheet as it has been washed out.

18. Examined and approved;

R. W. Swanson
Chief of Party

June 2, 1941

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 PHOTOGRAMMETRY
REVIEW OF PLANIMETRIC MAP T-5715

Radial Plot:

The radial plot was unusual. Because of scarcity of control, a 1:20,000 scale plot was first laid. Pass points were then scaled from this plot and transferred to the 1:10,000 scale manuscript for control of the 1:10,000 scale radial plot. The plot is described in detail in Special Report No. 124, 1941, by L. W. Swanson, filed in the library. No check of this radial plot was made in this office. The plot is accepted as adequate and well defined points of detail are believed to be within 1.0 millimeter of correct position.

Field Inspection and Detailing:

Adequate

Comparison with Previous Topographic Surveys:

T-5715 supersedes those sections of the following older surveys which it covers:

T-2494	1:20,000	1900
T-2561	1:20,000	1901-02

Comparison with Nautical Chart 1225:

T-5715 was applied to Chart 1225 prior to the review. No changes of importance to the chart have been made during review. T-5715 was applied to Chart 553 after review.

Topographic Quadrangles:

T-5715 was compiled in 1941, but processing in the Washington Office was delayed because of war map work of the Bureau and not completed until July 1946. Meanwhile, the Coast and Geodetic Survey produced topographic quadrangles for the War Department of this same area. The quadrangle manuscripts were made at scale 1:20,000. Planimetric details from T-5715 were used as a base for preparing parts of quadrangles T-8241, T-8242, T-8248, and T-8249. These quadrangles completed in 1943 are more recent and more complete as regards map details than T-5713, but are at a smaller scale.

Reviewed by F. H. McBeth, May 29, 1942

Inspected by B. G. Jones, June 2, 1942

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. Jones
Chief, Nautical Chart Branch
Division of Charts

K. T. Adams
Chief, Div. of Photogrammetry

Raymond C. Egan
Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T-5715

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.