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Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey AIR PHOTO SURVEY

Field No. Compiled Office No. T. 5693

LOCALITY

State Maryland

General locality Eastern Shore of Chesapeake Bay

Locality Morgan Creek

Photographs taken April, May, July, 1937

1940

CHIEF OF PARTY

Swanson

LIBRARY & ARCHIVES

DATE

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

T5693

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-5693

REGISTER NO.

State Maryland

General locality Eastern Shore Chesapeake Bay

Locality Morgan Creek

Scale 1:10,000x0.985 Date of survey, 19

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

Chief of party L.W. Swanson

Field Inspection --- W.C.R. D.A.J.
Surveyed by Compilation ---- J.N.J. D.A.J. R.A.G. W.V.L.

Inked by W.H. VanLoon

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated H.T. 215 May 13, 1938

Remarks:

DATA RECORD T-5693

PHOTOGRAPHS

No.	Date	Time	Scale	Stage of Tide
1561-1563	May 2, 1937	9:15 A.M.	1:10000	1.0ft. ab. M.L.
1689-1690	July 8, 1937	11:20 A.M.	1:10000	0.8ft. " W
1322-1323	Apr 30, 1937	3:10 P.M.	1:10000	0.3ft. " "
1375-1377	May 1, 1937	9:55 A.M.	1:10000	1.2ft. " "

CAMERA: U.S. Coast and Geodetic Survey nine lens, F $8\frac{1}{4}$ inches.
 Negatives on file in the Washington Office.
 Stage of the tide is from predicted tables, U.S.C. & G.S. mean
 range 1.9 ft. spring range 2.2 ft.

SUPPLEMENTAL SURVEYS

Field Inspection, Land areas -----W.C.Russell & D.A.Jones
details on T5693 are of Shoreline -----D.A.Jones
the date of the photographs. The field inspection found no details new details
 STATISTICS *later than the date of the photographs.*

CHIEF OF PARTY ----- L.W.Swanson
 PLACE OF COMPILATION -----Baltimore, Md
 SCALE FACTOR ----- L.W.Swanson, R.A.Gilmore, & W.C.Russell
 PROJECTION -----Ruling Machine, Washington Office.
 PROJECTION CHECKED BY -----Washington Office.
 CONTROL PLOTTED BY --- L.W.Swanson, W.C.Russell, D.O.Jones 5/8/39
 RADIAL PLOT BY ----- W.C.Russell, & A.L.Wardwell ----- 5/17/39
 HYDROGRAPHIC SIGNALS PRICKED BY ---R.A.Gilmore, W.C.Russell
 ADDITIONAL RADIAL POINTS PRICKED BY -- N.L.Koslow, W.H.VanLoon
 SHORELINE INKED BY -----D.A.Jones
 DETAIL INKED BY -----W.H.VanLoon ----- 8/8/40 to 9/21/40
 SHORELINE (creek) ----- 3.8 statute mi.
 AREA (land) ----- 33.0 sq. stat.mi.
 AREA (marsh) ----- 1.5 sq. stat.mi.
 ROADS, STREETS & TRAILS ----- 95.0 statute mi.
 TIME REQUIRED FOR COMPILATION EXCLUSIVE OF RADIAL PLOT.
 PRICKING & LOCATING ADDITIONAL RADIAL POINTS ----- 4 days
 SHORELINE ----- 1 day
 DETAILING ----- 30 days
 Total Time Required ----- 35 Days

DATUM -----¹⁹³⁴North American 1927
 REFERENCE STATION ----- TRAVILLA, (N.A. 1927, ~~unadjusted~~)
 Lat. $39^{\circ}14'49.459''$ 1525.2 m.
 Long. $75^{\circ}59'03.284''$ 78.8 m.

x coordinate: 1,087,670.71 FT.
 y coordinate: 516,461.76 FT.

DESCRIPTIVE REPORT
to accompany

AIR PHOTOGRAPHIC SURVEY SHEET NO. T-5693
MORGAN CREEK
EASTERN SHORE CHESAPEAKE BAY
MARYLAND

T5693

Date of this report *----- Sept. 24, 1940

INSTRUCTIONS

Instructions for Project HT-215, of which this sheet is a part, are dated May 13, 1939.

CONTROL

The control for this sheet consists of two (2) triangulation stations shown on the sheet by the triangulation symbol. Following is a list of the control and its source:

1. Triangulation executed by John Bowie, Jr., 1934 (adjusted, North American 1927 datum)
STILLPOND, 1896-1933
TRAVILLA, 1934

A list of the above stations and the geographic positions used in plotting same on this sheet appear in the appendix of this report.

Also, a copy of the recovery notes for the triangulation stations and the data used to prick the stations on the photographs are in the appendix.

This does not include all control for the radial plot which was made as a unit of several sheets.

SCALE PLOT

The scale plot for this sheet was run by flight lines; Celluloid templates made from the photographs showing flight lines and a minimum of radial lines to control points and well defined objects were layed down and oriented so that flight lines intersected adjacent centers and so that the best possible intersections of the most radials existed.

In order to hold these orientations the templates were secured together with Scotch Tape. A comparison was then made between distances taken from triangulation or scaled from charts, and the corresponding distances (on 1/10,000 meter bar) as scaled from the resulting layout of templates. This method was carried out for each of the flight lines falling on the sheets to be radially plotted together. The average resulting ratio equalled 0.985. The scale factor to which the projections for the map drawings of these sheets were drawn was therefore 1/10,000x0.985.

T5693^v

NAME	CONTROL STATIONS			METERS (N.A. 1927 Datum)	(0.985) SCALE FACTOR APPLIED
	o	'	"		
STILLPOND. 1896-1933	39	18	54.409	1677.9 (172.4)	1652.7 (169.8)
	76	02	39.100	936.7 (500.7)	922.6 (493.1)
TRAVILLA. 1934	39	14	49.459	1525.2 (325.1)	1502.3 (320.2)
	75	59	03.284	78.8 (1360.6)	77.6 (1339.6)
(STILLPOND) F.I.S. RED	39	18	1598.4	1598.4 (251.9)	1574.4 (248.1)
	76	02		1106.7 (330.7)	1090.1 (325.7)
(TRAVILLA) R.M. #1 F.I.S.	39	14		1552.9 (297.4)	1529.6 (292.9)
	75	59		77.7 (1361.1)	76.5 (1340.7)

Copied by W.V.L. 9/24/40

RECOVERY NOTES

Notes concerning the recovery of both Triangulation Stations appearing on this sheet have previously been sent to the Washington Office. ~~See appendix for reference ties to TRAVILLA.~~

RADIAL PLOT

A combined radial plot involving sheets 5693, 5694, 5696, 5697, 5699, and 5700 was run November 21, 1939 by the usual template method (see General notes for sheets 5692, 5695, 5698, 5701, and 5703).

The same radial points as pricked on the 20,000 pictures in this area were pricked on the 10,000 pictures and where necessary to give a good distribution of points, additional points were pricked. 150 control points, as determined from the 20,000 plot, previously run, were plotted on the map drawing sheets and transferred to the dummy sheets and were held to (in most cases) in conjunction with the triangulation in running the new 10,000 plot.

It is believed that although the triangulation stations in the area covered by these 6 sheets were sparse, the addition of so many additional auxiliary points resulted in a very good plot. A greater amount of strength could have been added to the plot had the 20,000 pictures been flown with more overlap both as to pictures and to flight lines. (see letter dated Dec 5, 1939, in regards to this.)

A junction of points was made with sheets 5692, 5695, 5698, and 5701 by running an auxiliary plot to eliminate any differences that occurred between the plot involving the above sheets and the present 6 sheets.

Note: The entire area of the six sheets was first radial plotted from 1:20,000 photos and points located by the 1:20,000 plot, then used to control the 1:10,000 plot from which the map details were located. See Review 75896 for detailed discussion.

FIELD INSPECTION

The field inspection on this sheet was accomplished by W.C. Russell and D.A. Jones, sufficient notes having been made to allow clear interpretation of all hydrographic and cultural features.

Date of field inspection was about as follows

DETAIL

1. Interior Details Sept 1938
2. Shoreline Sept 1939

All buildings except small out-buildings were shown. there were no towns of sufficient size to show only the street layout.

An inconsistency with standard topographical nomenclature occurred in registering the symbol for BRUSH, which however was covered by notations at intervals frequent enough to allow a tracer to understand what is intended by the symbol used.

Pictures Nos. 1689 and 1690 are badly out of scale and tilted, therefor wherever possible these photographs were disregarded and those from an adjacent and supplementary flight were used instead, These supplementary photographs are Nos. 1375, 1376, & 1377.

The detailing on this sheet was first completed, after which its junctions were compared with those of adjoining sheets Nos. 5657, 5658, 5659, 5692, and 5696, by means of red line prints brought to scale in a projector and were found to agree very well in all cases.

REMARKS

The probable error is not greater than 5 meters for all radial points and well defined objects in close proximity thereof. The error of other detail of importance is probably not greater than 10 meters.

Respectfully Submitted

W.C. VanLoon

Photographic Aide.

JUNCTIONS

Junctions were made with adjoining sheets Nos. 5657, 5658, 5659, 5692, and 5696, by means of ozalid prints brought to scale in a projector.

COMPARISONS

There are no contemporary surveys in the area covered by this sheet, and the chart of this area is not detailed so no comparisons were feasible.

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 most photographs. Points circled in blue are original points used in laying the plot, those circled in red are strong points having at least a perfect 3 out intersection, those circled in green are either ~~2 out~~ 2 out points ~~or 3 out~~ or 3 out points showing a small triangle of error.

October 3, 1940.

Forwarded,

L. W. Swanson
L. W. Swanson.

Chief of Party.

Respectfully submitted,

W. H. Van Loon

W. H. VanLoon
Photogrammetric Aide.

NOTE

Detailing continued North of Lat. 39 19' and between Long. 75 58' and 75 59' shows correct location for the features shown. Compilation T-5659 should be made to agree with this.

DIVISION OF CHARTSSection of Field Records

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-5693

There are no contemporary graphic control surveys in this area.

Hydrographic Surveys

The 1940 hydrographic survey of Morgan Creek has not yet been received in the office.

Previous Topographic Surveys

T-3024 (1910) 1:10,000

T-5693 supersedes the small section of T-3024 which it covers.

Comparison with Charts 548 and 1226

T-5693 shows minor revision of the shoreline. No detailed description is necessary.

Radial Plot

The plot is discussed in detail on page 3 of the descriptive report.

The radial plot has not been checked in this office. All of the plots in this area were made under rather adverse conditions due to the following:

(1) Incomplete calibration of the camera and transforming printer.

(2) The wide spacing of the 1:20,000 photographs which were used to control the 1:10,000 scale plot.

Because of the above conditions the accuracy of the plots cannot be estimated closely. It is accepted as adequate for charting, and it is believed that located points are within 5 to 10 meters of correct geographic position.

Field Inspection and Detailing

The field inspection and detailing of T-5693 were complete as received from the field, with the exception of minor revisions of a few buildings and the relocation of a number of the streamlines.

The errors in location of streamlines are apparently due to the insufficient examination of photographs under the stereoscope. The same applies to the relocations of buildings, but to a less extent.

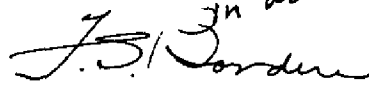
Reviewed by: H. D. Benson

Inspected by: B. G. Jones (4/4/41)


Examined and Approved:


Chief, Section of Field Records.


Chief, Topography Section.


Chief, Division of Charts.

*Redrafted
in Washington office*


Chief, Division of
Coastal Surveys.

GEOGRAPHIC NAMES

Survey No. T5693

T5693

Name on Survey	A. On Chart No. 77	B. On previous survey No.	C. On U. S. quadrang. Maps	D. From local information	E. Kent County Map On local Maps	F.	G. P. O. Guide or Map	H. Rand McNally Atlas	K. U. S. Light List	
MORGNEC			X							1
KENNEDYVILLE	X		X		X					2
WORTON	X		X		X					3
MORGAN CREEK	X		X		X					4
BIGWOODS			X							5
LYNCH			X		X				*	6
HEPERON			X		X				*	7
										8
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T5693

	Remarks	Decisions
1		392759
2		393759
3		392760
4		392760
5		392760
6	Shown as Lynch's P.O. on Kent County Atlas dated 1879	392760
7	Shown as Stillpond Sta. " " " " " "	392760
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11	L Heck 3/18/41	
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REVIEW OF AIR PHOTO COMPILATION NO. T 5693

Chief of Party: L. W. Swanson

Compiled by: W.H. Van Loon.

Project: H. T. 215

Instructions dated: May 13, 1938

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 ~~f~~; 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)
None were made.
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 used.
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)
- 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)

None
- 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)

None
- Directly on map drawing.

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 66k)
- 13. ✓ The geographic datum of the compilation is N.A. 1927 adj. 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, ~~48~~)

15. No additional surveying is recommended at this time.

17. Remarks:
This is a rough draft sheet.

18. Examined and approved;


Chief of Party

19. Remarks after review in office:

Reviewed in office by:

Examined and approved:

Chief, Section of Field Records

Chief, Section of Field Work

Chief, Division of Charts

Chief, Division of Hydrography
and Topography.

meeting room

Mail to
K.C. Polster
forms from #20

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Applied to Reconstruction of Chart 548 - Aug 1, 1941 - J. W. Albee