5695

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

ir Photographic Survey

Sheet No.

T-5695

State Maryland

LOCALITY

Chesapeake Bay

Tolchester Beach and Vicinity

Date of photographs May 1, 1937

July 8, 1937

XXX 1940

CHIEF OF PARTY

U. S. GOVERNMENT PRINTING OFFICE 102221

applied to chart drawing 549 May 28, 1941. Hom.

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-5695

REGISTER NO.

State <u>Maryland</u>
General locality Chesapeake Bay
Locality Tolchester Beach
Date of photographs May 1, 1937 Scale 1:10,000x 0.955 DEXECUTE STREET July 8, 1937 19
Vessel Air Photographic Survey Party No. 2
Chief of party L. W. Swanson
Surveyed by Field inspection by W. C. Russell and D. A. Jones
Inked by J. L. Rihn (Rough draft); D. A. Jones (Shore line)
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line interval feet
Instructions dated
Remarks:

DATA RECORD T-5695

PHOTOGRAPHS

Numbers	Date	Time	Scale	Altitude	Stage of tide*
1365-1367 1396-1398 1472-1473 1678-1680	5/1/37 5/1/37 5/1/37 7/8/37	9:14-9:45 10:17-10:24 2:18-2:25 10:44-11:08	1:10,000 x 0.955	0.8	ft. above M.L.W. ft. above M.L.W. ft. above M.L.W. ft. above M.L.W.

* Tide from predicted tables for Tolchester Beach, Md. mean range 1.3 ft., spring range 1.5 ft.

Camera: U. S. Coast and Geodetic Survey nine lens camera. Focal length $8\frac{1}{4}$ inches. Negatives on file in Washington office.

SUPPLEMENTAL SURVEYS

Graphic control surveys ----- Nome
Hydrographic surveys ----- None
Field inspection :--W. C. Russell and D. A. Jones ---- Fall, 1939

The details on T-5695 are of the date of the photographs with the exception of minor items noted in the last paragraph of the review.

GENERAL INFORMATION

Statistics

Area (land)	25.0	sq. statute miles
Shoreline (more than 200 meters from opposite sh	iore) 7.0	statute miles
Shoreline (less than 200 meters from opposite sh	iore) 5.0	statute miles
Roads, streams, and trails	166.0	statute miles
Time required for detailing	40.0	working days

REFERENCE STATION

Clough, 1896, 1933 Datum: North America 1927 (Adj.)

Latitute: 39° 12' 06.132" (189.1 meters) Longitude: 76° 11' 27.492" (659.7 Meters)

Maryland system of plane coordinates: x

x coordinate: 1,029,272.68 FT. y coordinate: 499,353.15 FT. Y

DESCRIPTIVE REPORT

to accompany

AIR PHOTOGRAPHIC SURVEY SHERT NO. T-5695 STATE OF MARYLAND CHESAPEAKE BAY-TOLCHESTER BEACH

Date of this report -----September 23, 1940

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 and its source:

U. S. Coast and Geadetic Survey Triangulation

Tol, 1935

Lee, 1935

Clough, 1896 1933

Chy., Center, Yellow House, 1935

Cupola, Red Barn, 1935

Cupola, Ferry Wharf, 1935

Light, Ferry Wharf, 1935

Light, Ferry Wharf, 1935

Mitchells Bluff, Tower No. 11, 1918 1933

Gales Farm, Tower No. 12, 1919 (adjusted)

Top White Silo, 1935

Reference marks for stations Tol, 1935, Lee, 1935, and Clough, 1896 1933 were also plotted because they were much easier to prick than the stations themselves. They are shown by small blue squares.

When the radial plot was run, it was found that stations Cupola, Ferry Wharf, 1935 and Light, Ferry Wharf, 1935 1936 could not be held. These two stations were destroyed by storm

RADIAL PLOT:

The radial plot for this sheet was run in conjunction with that of sheets 5692, 5698, 5701, and 5703. A description of the radial plot is given in the descriptive report for sheet 5698.

SCALE:

The scale of this sheet is 1:10,000 x 0.955. The results of the scale plot can be found in the descriptive report for sheet 5692.

DETAILING:

Except for control and geographic names, all information on this sheep was taken from the field inspection notes and from the photographs. The number and spacing of the photographs were quite adequate for detailing.

COMPARISON WITH PREVIOUS SURVEYS:

- 1. Chart No. 549 (1938) -- As nearly as could be ascertained, the shoreline agrees with that of Chart No. 549. Because of the large difference in scale, no detailed comparison could be made.
- 2. Map Drawing No. T-5427 (1933) -- The shoreline and inland topographic features agree remarkably well
- 3. Map Drawing No. T-5428 (1953) -- The fast shoreline agrees fairly well althoughin some places erosion has caused a difference of ten meters and in one place twenty meters. Much of the shoreline in marshy areas has changed twenty to thirty meters. Roads and other inland topography are in good agreement.

4.(U. S. G. S. Quadrangle "Chestertown, Md.) An examination of this map shows a conflict with both the existence or nonexistence of some of the roads and also the location of the drainage.

Recomparison needed because of date of the quadrangle

JUNCTIONS:

Good junctions were made with map drawing T-5692 on the north and map drawing T-5698 on the south. T-5699, also on the south, has not been detailed yet. Considerable difficulty was encountered in making a good junction of radial points with map drawing T-5696 on the east, because of the large difference in scale factors: 0.955 for T-5695 and 1.000 for T-5696. This was overcome by the use of a Dummy sheet and the projecting machine.

NAMES:

The geographic names are on the overlay sheet and are listed on form 234 in the appendix.

LANDMARKS:

Landmarks for this sheet are listed on Form 567 in the appendix. Turned over to Nautical Charts Section 7/31/41

RECOVERABLE HYDROGRAPHIC AND TOPOGRAPHIC STATIONS:

These stations are indicated by the proper symbol on the rough draft sheet No. T-5695.

REMARKS:

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

intersected The probable error is not grater than five meters for radial points shown in blue on the back of this sheet and well defined abjects along the water front. The error of other detail is not greater than ten meters. It was a way and a way and a way a way of the probable plat.

Respectfully submitted,

Jack L. Rihn

Jack L. Rihn

Photogrammetric Aide (Field)

Sorward Offrome Oct 3, 1940 LW Swampe Oh of Puty.

GEOGRAPHIC NA Survey No. T-	5695	, av. 00	8/ _{2, 1.} 6	ious sur	diadia	ncol ital	And a series	Arrie of	To or ENOUS	N Seri	<u>ن</u>
	. (Chart of	Chor Or	No. Or	D D D	Serior dior		Con Contract	H H	7.2. C	5
Name on Surve	<u>/</u>	<u>A,</u>	B ,	<u>/ c,</u>	<u> </u>	/ E `	F	G S	/н	<u>/ K</u>	=
Chesapeake Bay	ж <u>.</u>	x	x-542	3 x	х	x	x	x		x	_
Tolchester Beach	,	x	x "	x	x	*		x	*	x	_
Mitchell Bluff		x	x "		x					x	
Pairlee Creek		x	x "	x	x	ж	#				
George town		x	x "			x					
Tavern Creek	x	x	x-542	' x	x	*				х	
Swan Creek	x	x	x "	х	x	х	x			х	
Shipyard Creek	х	x	x-229)	x	x	х					
Poplar Neok	х	x	x "	x	*						
West Fork	x	, x	* n	x	x	x	x				
Fairlee		ж		x		ж	x	x			
Sandy Bottom				x	,	x					
Langford				x		x	@				
							,				
											_
		,									
			_			_					
] 					_	
				_							
								_			
											_
		i								~	_
							_				

			U.S.G. B
2	* Only the word "Tolchester"	392762	
3	•	11	
4	# Fairlee's Creek	392762	D.S.G. U
5		392761	
6		391762	
7		Ц	
8		391761	
9		391761	
10	* West Arm of Langford Creek	į i	;
11		392761	U · S · G · B ·
12		391761	
	@ Lankford	391761	v·s. 6.1B
14.			
15			
16	Previous surveys nos. 5428 & 5427 were made in 1933;		
17	survey no. 2291 was made 1897-1905.		
18			_
19			
20			
21	by L. Heck on Stell 1		
22			
23			
24			
25			
26			
27			
м 234			

REVIEW OF AIR PHOTO COMPILATION NO. T 5695

Chief of Party: L. W. Swanson Compiled by: Jack L. Rihn.

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, 0,4,d,e,g and 4; 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,h)

See remarks this review.

- 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
- 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
- 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)
 See Report T 5698
- 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."

- 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)
- 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. 166, e; and 60)
- 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)
- 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 664)
- 16. 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, 57, 58, 29, 40, 42, 43, 44, 45, 46, 49)

- 18. No additional surveying is recommended at this time.
- 17. Remarks: Cupola Ferry Wharf, 1935 and Light Ferry Wharf, 1935 were destroyed by storm during1936. There is considerable change in the ferry wharf at Tolchester.

 The greatest change along shore of Chesapeake Bay, approximately 20 meters, is in Latitude 39 13.9 to 39 14.1.

 Some changes were noted in the upper reaches of Fairlee Creek.

18. Examined and approved;

Oct. 3, 1940

Chief of Party

19. Remarks after review in office:

Reviewed in office by:

Examained and approved:

Chief Section of Field Records

Chief, Division of Chapts

Chief, Section of Field Work

Chief, Division of Hydrography and Topography.

Division of Charts

Surveys Lection

Review of Circ Photographie Survey T-5695

July 28, 1941

There are no contemporary graphic control

surveys in this area.

Comparison with Hydrographic Surveys

H-C372 1/10000 Sept-Ort. 1938

Tuly the offer reaches of Fairles Creek are

only the upper reaches of Fairles Creck are common to both surveys. The shoreline is the same for both surveys.

H-6374 /10000 Sept 1938

The shoreline for H-637+ was taken from air photographic survey sheets 7-5427 and 7-5428 (1933).

There are shoreline differences between H-6374 and
T-5695 up to 20 weters where the shore is gradually wearing away.

The Tolchester berry what has been changed

She Islander form whoof has been changed somewhat in shofe and the location prerouting the form on H-6374 the sound worth of that about on T-5695. The Descriptione Report T-5695 states that the light was destroyed by storm and relocated, the new position being reported on form 567 here. I fender eftending that the water some fish at her, a rock award, and two short pieces

*

are shown on H-6314 but are and shown on T-5695 as they could not be identified on the platographs and one not mentioning in the field impation which is later than the hydrographic during It is not necessarily that the thingship that the content to agree with 13635 prints To, H 5574 has been presented and off the things to the day. Chesaponke Bay abordine corneides in planes and at other planes apparently has receded from 10 to 20 meters. Have are changes (received) up to so meters in the soloreline of Failer Creck both along cliffs and marchy are no but on 7-5695 the draining lives have been delimented in fuller detail than on 7-5428. The steps of the Follow Ferry who for her changed sine the earlier compolation and the two triangelation stations formerly located on the what have been destroyed amording to a rute on the field Infation T-5695 supersedes T-5428 for charting purpose. Comparison with T-5427 (Air Photo Compilation) 1/10000 -1933 The shoreline 1the two sheets were practically

Comparison was sort made with earlier C. F.S. top genfelic surveys so T-5427 and T-5428 supersodod the enrice surveys efect for contour lines.

Charts 549 + 1226

T-5695 was applied to chart 549 Way 28,1941.

no important changes have been made to T-5695

since its application to the chart.

The radial plot for this area is discussed in detail in the description report accompanying T-5098. The entert for a storng plot but east of 76°10' was sufficient for a storng plot but east of 76°10' it was races my to wake adjustments of as much as 1.5 mm. in some radial points It in probable that radial points on the western part file sheet are within 12 mm of true position while those on the east are within 12 mm of true position.

Field Dispertion + Detailing

The field impertion and latarling 17-5695

are complete.

Aoue revision of appendicula steam hims through wooded ravines was anade after confol inspection of the photographs ander the stererope. Several fence lines were corrected by radial plotting and a few buildings ver added.

The detailing is as of the date of the photographs
exhapt for small dianings whether above the shoreline
which have closed of since the photographs were
taken and the slope of Johnsolin form what, which
were clarged in accordance with field impatin
notes made in the fell of 1939.

Reviewed in office by D. N. Benom July 30, 1941
Important by B.g. goves
bound ingrotues

-

•

-

. .

PLANE COORDINATE GRID SYSTEM

Positions of grid intersections used for fitting the grid to this compilation were computed by Division of Geodesy and the computation forms are included in this report.

Positions plotted by	N.L. Wilansky
Positions checked by	J.P. Dunich
Grid inked on machin	e by N.L. Wilansky
Intersections inked checked by f. p. Points used for plotting grid:	by F. Ho/z.
9=3°14'42,4002" <u>x = 1,010,000</u>	39°13' 023153"x=1,025,000 76°12' 21.1421" Y= 505,000
9=39°/4'39.8/97" <u>x=1,040,000</u> };=7%°09' 0 9.3828" V : 5/5,000	<u>х</u>
7 = 39° 11' 24.7230" \\ \frac{\f{\frac{\frac{\frac{\frac{\frac{\fracc}\frac{\frac{\frac{\f	<u>x</u>
9 = 39°11'22 145" x = 1040,000) = 76°09' 1.7408" y = 495,000	<u>x</u> <u>y</u>
Triangulation stations used fo	r checking grid:
2/ough, 1896-1933 1. 0=39°12'06.132" k=1.029.2 1=76°11'27.492" y= 499,3 Eqs. 1, 1927 2. 0=39°12' 17.823" x=1.013.0 1=76°14' 53.630" y= 500,3 1=76°15' 57.250" y= 491.5 1=76°15' 57.250" y= 491.5 1=76°15' 57.250" y= 491.5 1=76°15' 21.446" y= 507,3	36.14 6. 197.79 99.23 7.