8542

Diag. Cht. No. 77-5

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC

Field No. Office No. T-8542

LOCALITY

State MARYLAND

General locality CHESAPEAKE BAY

Locality LOUTH OF PATUXENT KIVEK

194 2-143

CHIEF OF PARTY E.L.Schoppe, Chief of Party Division of Photo., Wash. D.C.

LIBRARY & ARCHIVES

DATE LOUR 27-6947

B-1870-1 (I)

8548

DATA RECORD

T- 8542

Quadrangle (II):

Project No. (II):C. S. 307

Field Office:

Ray L. Schoppe
Chief of Party: R. W. Knox
Chief of Surveys Branch

Compilation Office: Washington, D. C.

Chief of Party: Ray L. Schoppe R. W. Knox

Instructions dated (II III):

Aug. 26, 1943 Sept. 4, 1943 Copy filed in Descriptive
Report No. T- (VI)

Division of Photogrammetry

Office Files

Completed survey received in office:

. Oct. 1944.

Reported to Nautical Chart Section:

Reviewed: Aug. 26,1949 Applied to chart No. Date:

Redrafting Completed: 3-27-50

Registered: November 28,1950 Published:

1950

Compilation Scale:1:10,000

Published Scale: |: 10,000

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927 Datum Plane (III): Mean Bea Level

Reference Station (III): Collison, 1942

Lat.: 38°15' 30.743 (947.9 meters) Long.: 76°26' 07.466

(181.5 meters)

Adjusted Unadjusted

State Plane Coordinates (VI):

x =

v =

To be added to plates during smooth drafting

Grid corner positions were formputed by Geodesy - Plotted in review. Aug. 1949

R.J.F.

Military Grid Zone (VI) Not shown

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage	of	<u>Tide</u>	
12487 12488	11-27-42 11-27-42	1:57 ⁻ - 1:58	1:10,000	(approx.)	,		N 41 144
12489 12490	11-27-42 11-27-42	1:59	1:10,000		63	above	M.L.W.
17491	11-27-42	2: <u>0</u> 0.⊣	1:10,000				
12530 12531	11-27-42 11-27-42	2:35 · 2:35	1:10,000		ැන්ග	above	M.L.W.
12532 12533 645-6	11-27-42 11-27-42	2:36 2:36 Lens Photos	1:10,000				
645-6 430419-430433	12-30-43	Lens Photos	1:20,000		.13	above	M.LW.
43c434-43c435 Tide from	12 - 30 - 43 (III):	1:03	1:24,000	•	.15	•	11

Mean Range: 1.2

Spring Range: 1.4

Camera: (Kind or source) U.S.C. & G.S. 9-lens camera (focal length 82 inches)

Field Inspection by: Wendell Bever Jr., Topo. Engr. date: September 1943 and C. O. Rector, Photo. Aid

Field Edit by: Not field edited

date:

Date of Mean High-Water Line Location (III):

Sept. 1943

Projection and Grids ruled by (III) Wash. Office date: Sept. 10, 1943

" " checked by: Wash. Office date: Sept. 10, 1943

Control plotted by: S. W. Trow, K. N. Maki date: Sept. 1943

Control checked by: S. W. Trow, K. N. Maki date: Sept. 1943

Radial Plot by: S. W. Trow, K. N. Maki date: Sept. 1943

Detailed by: F. Johnson, A. Lafave date: Oct. 1943

Reviewed in compilation office by:

Elevations on Field Edit Sheet checked by:

date:

STATISTICS (III)

Land Area (Sq. Statute Miles):

Shoreline (More than 200 meters to opposite shore):

Shoreline (Less than 200 meters to opposite shore):

Number of Recoverable Topographic Stations established:

12 planetable II photo compilation

Number of Temporary Hydrographic Stations located by radial plot:

None

Leveling (to control contours) - miles:

Roman numerals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:

STATION	G.P. page. Desc. page sounce or information DA (INDEX)	AGE LATITUDE OR P. COOF LONGITUDE OR F. COO	LATITUDE LONG\TUD	LATITUDE OR y-COORDINATE LONGITUDE OR 4-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	DATUM	N.A. 1927 - DATUM DISTANCE PROM GRID OR PROJECTION LINE IN METERS FORWARD (SACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (RACK)
; Collison, 1942	302 777-3	NA 1927	38 15 76 26	5 30.71.3				1 1
Cedar Pt. Lighthouse, 1897	274	=	38 17	2 04.924				
Cedar Pt. 2, 1934	81. 407-11	5	38 17 76 22	7 49.431 · · · 2 33.907				
. Stone, 1934	86-303 507-704	В	38 18 76 24	8 10,371 4 59.884				
Drum Pt. Light- house, 1907	306 407-10	н	38 19 76 25	9 09.199 5 16.310				
Bareda House Cupola, 1898	375 407-9	E	38 19 76 25	9 24.397 5 40.384				
70 4	11-207 8	z	38 17 76 25	7 39.859 6				
Control Tower . NAB, 1943	451.	E	38 1	17 21 843 25 23 600				
AEDS Compass Rose, 1943	449	E	78 2	17 31.852 25 42.631				
Skeleton Tower,	451	E	38 1	16 56.302 26 00.790				
Gray Tank, 1943	450	=	38 1	17 27.892 26 31.739				
Light on Control 450 Tower, S.P.B., 1943 407-1	1 450 43 407-1	=	76 2	17 09.704 26 57.214				
1 FT 3048008 WETER		Com Makin Pertin WO	- Kith	U.M	Transferred			M-2388-12

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS M. 2388-12 (BACK) FORWARD SCARE FACTOR ... 1,000. DATE August 1949 DISTANCE FROM GRID OR PROJECTION LINE IN METERS (BACK) N.A. 1927 - DATUM FORWARD DATUM CHECKED BY. R. J. French SCALE OF MAP. 1:10,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) FORWARD PROJECT NO. 05 307 CONGITUDE OR *-COORDINATE LATITUDE OR #-COORDINATE 28.576 32.234 18.994 25.650 33.931 35.163 20.542 1,0,12 19-844 12.15 20 25 4 217 512 엄앙 설8 8 3/8 38 38 38 38 3/3 DATE. NA 1927 Desc. page source of information DATUM = = Ħ æ 5 G.P. page 449 451 86-301. 407-9 81 407-11 451 407-11 ated Tank, 1943 407-11 (INDEX) 9 Tall Red Stack, 1943 Checkered Tank S.P.B., 1943 . Barreda, 1934 : Calvert, 1854 MAP T. 8542 : Merry, 1943 # FT. -. 3048004 METER COMPUTED BY. STATION ٠,

Ē

Intake, 1942

AND RADIAL PLOT

COMPILATION REPORT

TO ACCOMPANY

SHEET NO. T-8542

26. Control: (Includes control for T-8542 to T-8546 incl.) The following triangulation stations were used:

```
COLLISON, 1942
         CHASE, 1942
CEDAR PT. LIGHTHOUSE, 1897
         CEDAR PT. 2, 1934, F. I. P.

- GEDAR PT. FARM WATER TANK, 1932 Destroyed. Retained as topo. sta.
         STONE, 1934
         DRUM PT. LIGHTHOUSE, 1907-08
BAREDA HOUSE CUPOLA, 1898
K. OF P. FLAGSTAFF, 1908
SOLOMONS M.E. CH., 1907-08
           STUMP R. M., 1907
           GROVE, 1907
        PT. FARM, 1917, F. I. P. 8544*

SOTTLER, 1934 8545

HUTCHINS 2, 1942 8545
         PEAK, 1908
/ Point = ISLAND R. M., 1905 (M.S. F. S.), 1907 8545
                                                                                 (MSFC
          BRISCOL, 1934
         COLE, 1942 8543
         DIXON, 1934 848 REKAR, 1942 WILSON 2, 1934
                                      - elevated
         MARSHALL, 1942, F. I. P. WOODEN WATER TANK, 1943
                        1942, F. I. P. 8544 .
         CONTROL TOWER N. A. B., 1943
          SEAPLANE RAMP ROSE, 1943 AEDS, Composs Rose 1943
         SKELETON TOWER, 1943
         GRAY TANK, 1943
          CITY, M. S. F. C., 1943, F. I. P. TALL WATER TANK, ELEVATED, 1943
          WEST RADIO TOWER, 1943
          CENTER RADIO TOWER, 1943
          EAST RADIO TOWER. 1943
          SOLOMONS ISLAND WHARF LIGHT, 1943
          SANDY, 1943, F. I. P.
          ST. PETERS EPISCOPAL CHURCH CROSS, 1943
        MERRY, 1943 F. I. P.
          BEN, 1907, R. M. SOLOMONS IS. CATHOLIC CHURCH CROSS, 1943
          TELL, 1943, F. I. P.
LEWIS, 1943 F. I. P.
CAP, 1943, F. I. P.
PT. PATIENCE LIGHT, 1943
        + Broome Island Light, 1943 8545
           Island Creek Light, 1943 8548
         Brooms, 1907
```

Battle Creek Shoal Light, 1943 Petersons Point Lighthouse, 1943 8544. CREEK, 1943, F. I. P.

HAM, 1943
BERTON, 1943
LARGE TANK, ESSO, 1943
GYRO, 1944, F. I. P.

BERT, 1943 ONT 8544
BRAD, 1943 F. I. P. on 78544
HALLOWING, 1908, F. I. P.

CURTIS, 1943, F. I. P.

KITT, R. M., 1908
SIMS, 1943, F. I. P.

Triangulation Stations

ON T-8542

Calvert 1854

Barreda 1934

Light on Control Tower 1943

Acds Compass Rose 1943

Tall Red Stack 1943

Checkered Tank 1943

Checkered Tank 1943

Checkered Elevated Tank 1943

The following U. S. G. S. traverse stations were plotted:

T. T.-1467
T. T.-1476
T. T.-2081
T. T.-2086}
T. T.-2086}
T. T.-2089
T. T.-3848
T. T.-2128
T. T.-2157
T. T.-2153 - 7-8545

Of the above stations only T. T.-2157 was held.

The F. I. P. angle on station Brad may be in error 10°. The radial plot locates the F. I. P. about 10 meters south making the angle read 103° instead of 113°. All other points in the vicinity held.

Ben R. M. could not be held. Reason was Boor identification on photographs is the reason why the point can not be used.

27. Main Radial Line Plot:

A continuous radial line plot was run in September 1943 for the purpose of locating all photograph centers, hydrographic stations, topographic stations, azimuth marks and radial points. The plot extended over the entire area covered by sheet numbers T-8542 to T-8546, inclusive.

The plot was made up of 26 templates: All radial lines were adjusted on the templates in order to reduce any error due to shrinkage of the photographs. This was done by tracing the chamber divisions onto each template from a metal sheet on which the chamber divisions were accurately determined. Radial lines were then drawn by rotating the template, chamber by chamber.

Radial intersections and azimuth lines generally were good. Although there were a number of wild rays, it was nearly always possible to pick a definite intersecting point made up of four or more rays.

Of a total of 64 available triangulation stations 54 were used. Stations not used could not be identified or would not hold. Lost stations, if plotted, are indicated by the word "lost" following the station name. Triangulation and photographic coverage was considered adequate although additional coverage would have been desirable where stations fell in the extreme wing sections of a photograph.

The radial plot for the entire area of sheets T-8542 to T-8544, inclusive was relaid November 6, 1943 using additional control established by the hydrographic party. The control strengthened the plot and resulted in changes of 0.2 to 1.2 millimeters in the area around Helen Creek approximately latitude 38°22' and longitude 76°28'. See letter of February 23, 1944 to Commanding Officer, U. S. C. & G. S. Motor Vessel Cowie. page 17. attached.

A number of different colored inks and different sized circles were used on the celluloid sheets to designate plot points, detail points, hydrographic and topographic stations, etc.

Large red circle - original plot point

Large green circle - original plot point located by two intersecting rays only.

Small black circle - detailed hydrographic and / or topographic station.

Large black circle - plot point relocated from second plot laydown.

Medium sized blue circle - detail point for shoreline, etc.

No adjustments, except very minor ones were made to the plot other than those made as a result of the second laydown.

Detailing: 28.

The areas of the Map Drawings (T-8543 and T-8542) have been compiled in accordance with the instructions. The topographic features were detailed from U. S. Coast and Geodetic Survey 9-lens photographs (field inspection prints were used). However, in the vicinity of the Patuxent River Naval Air Station, single lens ratio prints were used. The following 9-lens photographs were used: 12488 to 12491 inclusive and 12529 to 12531 inclusive. The single lens ratio prints cannot be listed since no index numbers have been assigned to these prints.* Symbolization is in accordance with the recommended topographic symbols except in the case of the outlined wooded area; the latter is noted in green acetate ink.

Details within the limits of the Patuxent River Naval Air Station are on the field edit sheet for T-8116. This field edit sheet was compared with the manuscript for T-8542 when T-8116 was registered, (9/46). Everything was in good agreement and no changes were necessary on the manuscript, (T-8542).

D. Moseley

The compiled area comprises the Patuxent River from its mouth to a point just north of Helen Creek, and extends inland to a depth of two or three miles on each side of the River. The interior consists of wooded areas (principally deciduous and pine), small farms, summer cottages along the shores of the water area, small marsh areas, and a number of small villages. The location of all the streams were determined by the use of the stereoscope; the stereoscope was used in the location, also, of other indistinct features, e.g., roads, buildings, etc.

The important features in the area are three Naval Reservations located near the mouth of the Patuxent River. These are the Patuxent River Naval Air Station, the U. S. Naval Mine Warfare Test Station, and the U. S. Naval Amphibious Base. Additional detail points were established to aid in the detailing. Insufficient overlap necessitated some detailing from the outer wings of the 9-lens photographs 12489 and 12490. Although a proposed layout plan of the U. S. Naval Mine Warfare Test Station was available, it was decided to detail only those buildings that were visible on the photographs.

All the buildings, which were visible on the photographs; have been shown. All first class decond class, and private reads were shown. Although some of the reads were classified on the field inspection prints, a few of these classifications were changed at the discretion of the compiler.

29. Supplemental Data:

Graphic control surveys T-6915A and T-6915B, scale 1:10,000, have been applied to the air photographic compilation. Shoreline and shoreline structures, landmarks, etc. were applied directly by matching grids. Most changes were in the vicinity of the U.S. Naval Air Station. Plan drawings of the U.S. Naval Air Station were used for buildings and road layouts.

Graphic control surveys 6927A and 6927B, scale 1:5,000, were also reviewed. Sheet 6927B which falls on T-8542 indicated a discrepancy as compared with the radial plot. Minor differences have been brought into agreement with the planetable work. However, beginning just above the entrance to Mill Creek at approximately latitude 38°19.5' and extending northward and eastward there is an increasing difference between the two surveys. At the upper end of St. Johna Creek this difference amounts to some 20 meters and at the eastward end of Mill Creek to approximately 25 meters. These differences have been measured at topographic stations common to the two surveys.

A careful check of the radial plot was made in the Washington Office and no further adjustment could be made other than that resulting from the second laydown. Therefore, it was concluded that the graphic control surveys were in error

and that they should be adjusted to the radial plot. A thorough discussion of the situation and procedure followed can be found in letters of March 20 and October 23, 1944 to the Commanding Officer of the Cowie. 7 office memo of Oct. 23,

34. Landmarks and Aids to Navigation:

Landmarks and permanent aids to navigation are listed on Form 567 and made a part of this report. Clear letter 125 (1944)

35. Hydrographic Control:

No additional stations were located other than those established by planetable surveys.

44. Comparison with Existing Topographic Quadrangles:

Drum Point quadrangle by U. S. Geological Survey surveyed in 1890, revised in 1900 and 1904, has been superseded by Solomons Island quadrangle done by Corps of Engineers in 1944 with a radial line plot from aerial photographs. The scale is 1:31,680. No apparent discrepancies are discernible between this latest U. S. E. quadrangle and sheet T-8542.

45. Comparison with Nautical Charts:

Map Manuscript
Sheet T-8542 was compared with Chart No. 539 of print
date October 20, 1944. Only a visual inspection was made as T-8542
chart 539 is 1:40,000 scale. The chart compares favorably and
only minute discrepancies might be noted, such as the omission
of several small piers in Mill Creek and St. John Creek.
Their inclusion on the chart probably is not necessary because
of the large scale involved. A slight discrepancy is present
on the narrow neck of land joining Solomons Island to the
mainland. The shoreline differs slightly and there is a small
bridge present. Also, wrecks in Mill Creek are not shown.
The wrecks, however, are at the extreme end of the creeks and
are no hazard to navigation.

Respectfully submitted,

Revised in red ink by 5. V Suffish Chip, Keview Section

K. N. Maki Ass't Cartographic Engr.

T-8542

Hydrographic Stations (All located by planetable)

· Gate - Northerly gable white house.

· Ego - Westerly gable large white barn.

· Opal - Center chimney north roof farmhouse.

- Sow - Duck blind.

Vega - Finial on small grey metal house. !

It - Center dormier window of three on farmhouse.

· Epic - Black stack, Southwest corner powerhouse.

· Cone - West gable farmhouse.

· Bid - Low chimney on highest section of boathouse.

. Pat - Duck blind.

· Pad - Outer end of fishtrap.

. Hill - Inshore end of fishtrap.

. Dot - Outer end of smaller fishtrap.

. Keg - Inshore end of smaller fishtrap.

Doe - Cedar bush, end of fish stakes.

·Bif - Inshore end of fish stakes.

Gun - Outer end of shortest line of fish stakes.

.Hot - Inshore end of shortest line of fish stakes.

· Irk - Chimney North Gable white house.

· Ant - Chimney on Southwest gable of red roofed house.

· Cow - Center chimney white house.

· For - Center chimney white house.

· Vie - Southwest gable white house.

· Net - Bow of wreck.

· Wag - Center red roofed cottage.

. Quo - South gable green roofed house.

. Meat - Southwesterly gable white house.

Form 567 Rev. March 1935

DEPARTME T OF COMMERCE
U. S. COAST A. D. GEODETIC SURVEY

LANDMARKS FOR CHARTS

M. V. CONTE

TO BE CHARTED STRIKE OUT ONE

February 21 , 1934

I recommend that the following objects which have (Mandana) been inspected from seaward to determine their value as landmarks, be charted on (delated from) the charts indicated.

The positions given have been checked after listing.

GENERAL Patriognaph Bitrary Md.				-	POSITION						ТЯАНО
a contract or company			LATITUDE	IDE	LONG	LONGITUDE		METHOD	DATE	OBE CI	CHARTS AFFECTED
NAME AND DESCRIPTION		0	-	D. M. METERS	- 0	D. P. METERS	DATUM				3440
BARN, north gable		2	Chox	located	ion	(atopa)	1927	9	1943	- M	539
TANK (ELEVATED)		30	12	184	7636	121	ditto	no £9.	1943	×	523
HOUSE, center chimney	- '	38 2	29	38	14.35	261	ditte	of £q.	1943	×	539
HOUSE, east gable, on beach	1	38 %	100	1456	76.36	800	ditte	000	1943	84	529
TANK (ELEVATED)	~.	38	THE	428	76 35	1166	ditte	arydd Syfei	1943	N	589
CHIMNEY, EAST, large house		(Not		located o	pyduo	16.)	ditto	stic ogre	1943	м	529
HOUSE, southeast gable		35	25	999	7634	306	ditto	f tqn fodq	1943	_ N	529
DARN, east gable		38	74	111	76 33	189	ditto	o o. TA	1943	×	529
HOUSE, east gable	1	93	80	502	76 53	188	ditto	ţųďs	1943	H	539
STACK, brick (@ And)		828	23	658	76 30	UH	ditte	rgeđ	1943	м	529
WINDKILL (e ffe)		38	22	1222	76 32	//	ditto	oųď	1943	к	539
TANK, (ELEVATED) (@ Hub)	-	38	22	1757.	76 29	416	ditte	TİA	1943	N	539
More , where Landmarks for Charts		to be		scaled from		Compilations f	for this	area.			12

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

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Rev. March 1935

OF COMMERCE GEODETIC SURVEY DEPARTME U.S. COAST

LANDMARKS FOR CHARTS

M. V. COWIR

February 21

TO BE CHARTED STRIKE OUT ONE

I recommend that the following objects which have (part and been inspected from seaward to determine their value as landmarks. The positions given have been checked after listing. be charted on (Materatorana) the charts indicated.

GENERAL Patrice	Patnivent River.	r. Md.			POSITION						<u> </u>	
i		J	LATI	LATITUDE	LONG	LONGITUDE		METHOD	DATE OF	OR CH	HORE	CHARTS
NAME AN	NAME AND DESCRIPTION	NOITA	-	D. M. METERS	-	D. P. NETERS	DATUM	7.8545				
*TANK, (ELEVATED (@ Yes)	(A)		38 24	85	76 35	724	1927	sextant	7961	K		629
CHIMMET, SW	(è Heg)	(Be)	38 21	. भूवर	76 28	1248	ditte	G-CHIS. See feets	2961 f	×		629
HOUSE, ohimmey	TO BOW	ohimney on gouth and Hill)	58 21	291	76 80 /	200	41tb	7-8543 ditte	1943	×		629
HOUSE, chimney	r in cen	center (@ Cems).	88.19	798	76 29	9111	ditte	T-8543 ditte	1948	H	-	629
*STACK, brick,	edner.e	(# Stack) .	38 20	478	76 28	707	944P	7-8543 ditto	2961	K		629
HOUSE, (CROSS on nerth gable)	en nert	h (9 Cet)	38 22	,898	76 31	≯98	qqtp	ditto	2961	H		629
STACK, brick,	square	(o 1.4p)	58 19	1518	78 27	28 ×	ditto	T-6533	1943	M		629
								Sheet	genled frem	8		
OIL TANK, TAL		- 1943) T-0545	88 19	435	76 27	289	1927	Trian-		×		629
*RADIO RAST, stlver		. 1948)	58 16	1085	78 87	1083	ditte		1942	H		1823
* (llver Le Tower	1943)	58 16	1013	76 27	984	ditte	ditte	1943	K		1824
(A East Radio	Tone -	. 1948) ".	28 16	3211	78 27	, 146	ditte	ditto	1948	H		1224
	-	-	\									

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

Form 567 Rev, March 1935

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY PERMANENT AIDS TO MAYIGATION

STRIKE OUT ONE

TO BE CHARTED

CONTE

February 21, 198

I recommend that the following objects which have (maintain) been inspected from seaward to determine their value as landmarks, be charted on (MINITALISME) the charts indicated.

The positions given have been checked after listing.

GENERAL Patuxent River.	#q.				POSITION	JON					TMA	TMA	
			LATITUD	UDE		LONG	LONGITUDE		METHOD	DATE	IDB CH	HOBE CH	CHARTS
NAME AND DESCRIPTION	ON	0	_	D. M. METERS	0	-	D. P. METERS	DAT C			HAR	HSN]	·
Back Greek Light No. 2	7-8543	88	19	541	92	27	470	NA 1927	Graphic Centrel	1964	×	*	1224
Back Creek Light No. 5	7.6543	88	19	1096	76	27	678	di tte	ditte	9761	M	M	4126
Selomens Island Wherf Light 7-4593	ght 7-8543	88	19	en '	76	27	182	ditto	Trian-		_	M	ditte
Point Patience Light	7-8543	38	19	1362	73	29	70	ditte	ditto	1943	<u></u>	M	atte
Petersen Saint Light*	7-8544.	38	28	13	76	30	969	d tto	ditte	2961	M		539
Island Greek Light	7-8545	38	24	918	76	32	988	atte	ditto	1945	ĸ		539
Broome Island Light*	7-8545.	88	23	1689 /	78	33	475	ditte	ditte	1943	M		539
Battle Creek Shoel Light* 7-8845	* T-8845	28	25	1465	76	36	723	ditto	ditte	1945	×		689
Drum Peint Light House	7-854.	88	19	284	76	25	296	ditte	TEST	1907	H	H	539 1224
Ceder Peint Light House	7-8542 . (abanylmod) 38	38	17	1770	76	22	120	ditte	TASKZ ditte	1897	×	×	ditte
*Temperarily extinguished	shed	}											
										<u> </u>			<u> </u>
		l I											

The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given. Inis form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS."

Form 567 Rev. March 1935

U. S. COAST A. D GEODETIC SURVEY DEPARTMF T OF COMMERCE

LANDMARKS FOR CHARTS

V. COMIE

STRIKE OUT ONE TO BE CHARTED

193 February 21

I recommend that the following objects which have (national) been inspected from seaward to determine their value as landmarks, be charted on (Malerad Jacob) the charts indicated.

The positions given have been checked after listing.

					Thomas	as B. Reed	ped	0	hief o	Chief of Party.
GENERAL Patuxent River. Md.			POSITION					TRA	ТЯАН	
	LATI	LATITUDE	LONGITUDE	TUDE		METHOD	DATE	ов сну	AOBEC	CHARTS
NAME AND DESCRIPTION	- 0	D. M. METERS	- 0	D. P. METERS	DATUM	-	NO.	HSNI		
TOWER, centrel, N. A. S. (△ Control Tower, N.A.B1943).	38 17	673	76 25	574	NA 1927	Trian-	1948	K	7	539 553
*TANK, (ELEVATED) (\triangle Tall Water Tank, Elev1943).	38 16	493 /	76 27	59 /	ditte	7.8542 ditto	1943	М	H	1224
(A Cathelle Church (Coss-1943)	58 19	910	76 27	, 196	ditte	7-8543 ditte	1943	K		539
(A Watertank, Wooden, Elev1943)	58 17	1228 /	76 25	448	ditto	T-6322	1943	×	H	539 553
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This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

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U. S. GOVERNMENT PRINTING OFFICE

INCOMEDIATION OF LANDMARKS FOR CHARTS

August 26, 1949

S. V Griffith

STRIKE OUT ONE

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

R. J. French The positions given have been checked after listing by _

Maryland				POSITION			METHOD			MAH2	
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating inidividual frequency if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given. 18-51696-1 U. S. GOVERNMENT PRINTING OFFICE

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526-RCR

February 23, 1944

To: The Commanding Officer
U.S.C.& G.S. Notor Vessel COWIE
Oxford Boatyard Company
Oxford, Maryland

Prom! The Director

U. S. Coast and Geodetic Survey

Subject: Replot of Air Photographic Surveys, Project 307

The field photographs and planetable sheet, Field No. C, borroved from your office on January 27, 1944 were returned to you by mail on February 19, 1944.

The radial plot for the entire area of sheets T-5542, T-5543, and T-5544 has been relaid in this office using the additional triangulation recently established by your party. This additional control has strengthened the plot and resulted in changes in the positions of details from 0.5 to 1.2 millimeter in the area around Hellen Greek. The positions of all topographic stations have been relocated and the shoreline redetailed in this area. In addition to the changes at Hellen Greek, a few topographic stations on the west side of the river in the vicinity of Guokold Greek have been changed slightly; that is, less than 0.5 millimeter.

The new radial plot held well to the field inspection position at station "Creek" and to the new position for "Stump Reference Wark." Apparently, this is an error in the geographic position of the old station "Stump," the cause of which has not yet been determined.

Piling and new piers shown on planetable sheet C have been transferred to T-6543 and T-5544. Sections of shoreline sketched on the back of sheet C, covering areas where the shoreline was obscured by trees on the photographs, also have been transferred to the air photographic survey sheets.

Topographic stations located on planetable sheet C which were also originally located by the air photographic plot have been transferred to T-8543 and T-8544, and have been tied in to the new air photographic plot. The planetable and air photographic locations are in agreement except for station "Chimney at west end of hotel (9), " latitude 38°19.2', longitude 76°29'. There is a difference of See Remain about 0.5 millimeter between the planetable and air photo- 7-8543 graphic location at this point. The planetable position is accepted. The difference may be due to erroneous identification on the photograph.

T-8543

No changes have been made on air photographic surveys T-8545 and T-8546. One ozalid print each of T-8543 and T-5544 on which the changed areas have been circled in pencil will be forwarded to you. Reverse tracing paper prints and chart paper prints of T-8544 have been ordered to supersede those originally furnished to you. These will be forwarded within about one week.

Please forward the remaining planetable sheets between Point Patience and the bay as soon as they can be spared by your party. These sheets can be photographed and returned to you immediately if necessary. The remaining planetable sheets are desired so that all details common to the planetable and air photographic surveys may be brought to exact agreement. This is particularly desirable where certain of the marked topographic stations located on the 1:10,000 scale air photographic surveys are being relocated on the 1:5,000 scale planetable surveys.

Upon receipt of the 1:5,000 scale planetable surveys, it is intended to redetail the shoreline on the air photographic surveys at Back Creek and Mill Creek with a fine line so that it can be enlarged and used on the 1:5,000 scale hydrographic smooth sheets without loss of details.

As soon as the remaining planetable sheets are received and the additions and corrections made on air photographic surveys T-8542 and T-8543, new ozalid prints and new reverse tracing paper prints will be furnished to you.

To summarize, you will be furnished with new copies of T-8542, T-8543, and T-8544 which will include all corrections made after receipt of the additional triangulation and planetable surveys. These new prints shall supersede those originally furnished to you. Only the new prints of T-6542, T-6543, and T-6544 shall be forwarded to the processing office.

(Signed) L. O. COLBERT

Pres 307

\$26-ROR

March 20, 1944

To: The Commanding Officer

Motor Vessel COWIE

U. 8. Coast and Geodetic Survey

S Postmaster

Solomons, Maryland

Fron:

The Director

U. S. Coast and Geodetic Survey

Subject: 1:5,000 Scale Graphic Control Surveys T-6927A and T-6927B, Project 307

The above graphic control surveys have been reduced to 1:10,000 scale and applied to air photographic surveys T-5542 and T-5543.

In the entire area of Back Creek and at the entrance to Mill Creek the graphic control and air photographic surveys were in substantial agreement. Where minor differences exist, the air photographic surveys have in practically all cases been corrected to agree with the planetable work. However, beginning just above the entrance to Mill Creek at approximate latitude 35°19.5° and extending northward and eastward there is an increasing difference between the two surveys. At the upper end of St. Johna Creek this difference amounts to some 20 meters and at the eastward end of Mill Creek to approximately 25 meters. These differences have been measured at topographic stations common to the two surveys.

The radial plot has been checked in the office, but cannot be changed to agree with the planetable work. In this case the air photographs span across the area, reaching centrol in the neighborhood of Drum Point, Sciemons, and Hellen Gut, thereby affording a fairly rigid plot. It is believed that the point locations on the air photographic plot are not in error in excess of 5 meters.

Since there was no triangulation control for the planetable work above the entrance to Mill Creek, it is thought that the difference might be due to loss of distance and azimuth on the graphic control surveys.

copies of the air photographic surveys at 1:10,000 scale and 1:5,000 scale covering the area will be forwarded to you, together with the graphic control sheets T-6927A and T-6927B. March 21 or 22. Please advise this office if you find any explanation for these differences other than stated in this letter. If it is reasonably easy to do so, the work might be checked by establishment of a triangulation intersection point at or near the head of St. Johns Creek and the head of Mill Creek. It might also be practicable to extend planetable asimuths from points near triangulation control up the axes of Mill Creek and St. Johns Creek and thereby test the accuracy of the graphic control work. It is reglized, of course, that this may have been done during the progress of the original graphic control surveys.

In the case that additional field work appears to you to be impracticable or unwarranted at this time, it is thought that the graphic control and hydrographic work can be adjusted to the air photographic surveys shoreline and topographic stations without serious loss of accuracy.

The 1:10,000 scale graphic control surveys T-6951A and T-6951B have been applied to the air photographic surveys. There were no appreciable differences in position. Copies of the revised air photographic surveys will be furnished to you in a few days.

(Signed) J. H. HAWLEY

Acting Director

October 23, 1944

MUDIARONAM

To: Mr. Edmonston

Subject: Surveys of Back Creek and Mill Creek,

Project 307, Patuzent River

This project is covered by air photographic surveys T-8542 to T-8545, inclusive. The radial plot and detailing of shoreline on these sheets were completed in the fall of 1943, and copies furnished to the hydrographic party.

After beginning operations the hydrographic party decided to establish additional triangulation and to make graphic control surveys for additional hydrographic control. The graphic control surveys of the Haine River were on 1:10,000 scale. These were forwarded to this office together with the new triangulation and the air photographic surveys were checked and revised and new copies furnished to the hydrographic party. Details of this revision of the air photographic sheets are given in the attached copy of the letter to the Commanding Officer of the COWIE, dated September 23, 1944.

Graphic control surveys T-6927A and T-6927B covering Back Greek and Mill Greek were made on the scale of 1:5,000 for control of 1:5,000 scale hydrography. When submitted to this office, these graphic control surveys could not be made to agree with the air photographic sheets. After a careful check of the radial plots in this office, it was concluded that the graphic control surveys were appreciably in error. This situation is discussed in the attached copy of the letter of March 24, 1944, addressed to the Commanding Officer of the COWIE. Subsequently, the Commanding Officer of the COWIE left the boat sheet for this area, and the graphic control sheets, in this office for adjustment. This adjustment has been accomplished as follows:

The area is covered by air photographic surveys at 1:20,000 scale made for production of quadrangles as well as by the 1:10,000 scale sheets mentioned above. The two plots are in substantial agreement. The graphic control work agrees with neither. It is concluded that the graphic control work is in error due to lack of triangulation.

Attached to this memorandum is a tracing of the shoreline from air photographic surveys T-8542 and T-8543. The air photographic surveys contain a number of points common to the graphic control surveys. The signals on the graphic control surveys have been adjusted into position on the air photographic shoreline and are shown on the tracing in red. Signals in black were located by the air photographic surveys.

It is suggested that the smooth hydrographic sheets be plotted at scale 1:10,000 using the attached tracing as a base, and that the graphic control sheets T-6927A and T-6927B be superseded. The signals from the graphic control sheets have not been transferred to planimetric maps T-8542 and T-8543.

B. G. Jones

MEMORANDUM FOR: DIRECTOR, U.S. COAST AND GEODETIC SURVEY, DEPARTMENT

OF COMMERCE

ATTN: Administrative Planning Section

SUBJECT: Classification Clearance

- 1. Reference is made to your memorandum to the Director of Intelligence, U.S. Air Force, dated 12 December 1949, requesting security clearance of certain USC&GS maps being prepared for publication in unclassified form.
- 2. Returned herewith are maps Nos. T-8542 and T-8543, Patument River Area. There is no objection to their publication in unclassified form.
- 3. This transmittal completes the security clearance action on the maps forwarded with your memorandum referenced above.

FOR THE ASSISTANT CHIEF OF STAFF, 0-2:

2 Incls

1. Map No. T-8542

2. Map No. T-8543

JOHN W. MIDDLETON

Colonel, GEC

Chief, Security & Training Division

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Division of Photogrammetry

Review Report T-8542

26. Control

All USC&GS triangulation stations within the limits of this manuscript were recovered during field inspection and are listed on Form M-2388-12 with this report. They are plotted on the manuscript.

Eleven topographic stations which were located by the radial plot were scaled and listed on Form 524 cards during review.

Former triangulation station Cedar Point Farm Water Tank, 1932 (finial) was destroyed in 1943, but has been retained as topographic station "Intake, 1943" and listed on a Form 524 under this survey.

28. Detailing

All sand and beach areas were determined by stereoscopic examination and added during review.

A woods cover classification was determined and interpreted from field inspection notes and stereoscopic examination to conform with the present practice for showing woodlands.

28 a. Classification:

It is noted that at the time of field inspection the Navy requested that no cultural details within the NAS save landmarks be shown, and in keeping with the present classification of "Restricted" as per authority of the Security Classification Map dated December 16, 1946, these features should not be drafted.

The photographs, the map manuscript and the descriptive report are marked RESTRICTED. Declassified 3 Aug 1950.

29. Supplemental Data

Graphic control surveys T-6927A and T-6927B (1944) have been adjudged incorrect and have been destroyed by the Chart Division Archives. The descriptive reports have been retained in the general files for Project 307 in Photogrammetry.

Twenty-seven hydrographic stations of a permanent nature and eleven topographic stations located by planetable methods on T-695la and b (1944), were transferred to the map manuscript and their descriptions are listed with this report and/or on Form 524 cards assigned to this survey.

The NAS reservation boundary was determined by a plan drawing submitted by the Navy as of 17 July 1943.

34. Landmarks and Aids to Navigation

The position of one landmark recommended by field inspection in 1943 was later determined by triangulation and is submitted on Form 567 for charting and reported to the Nautical Chart Branch, Division of Charts.

35. Geographic Names

All names shown on the map manuscript have been approved by the Geographic Names Section, Division of Charts, and are listed with this report.

44. Comparison with Previous and/or Contemporary Surveys

T-256	1:20,000	1848
T-257	1:20,000	1848
T-2107	1:5,000	1893
т-2861	1:20,000	1907–8
T-6754	1:10,000	1941 Graphic Control
T-6951a	1:10,000	1944) Contemporary Graphic
T-6951b	1:10,000	1944) Control
н-6876	1:10,000	1944) Shoreline from this survey (T-8542)
H-6966	1:5,000	1944) was applied to H-6876 and H-6966 in conjunction with hydrographic surveys in operation at that time.
T-8116	1:20,000	1943
U.S.G.S.	Drum Point,	Md. Quadrangle 1:63,500 - 1904
U.S.E.	Solomons Is	sland, Md: Quadrangle 1:31,680 - 1944

45. Comparison with Nautical Charts

Wrecks mentioned in the text were added to the manuscript from the original field inspection photographs during review.

This survey was applied to hydrographic surveys H-6876 and H-6966 prior to review, but has not been applied to the nautical charts as of this date.

539	1:40,000	1-12-48
553	1:40,000	10-4-48
1224	1:80,000	12-20-48

47. Adequacy of the Compilation

This map (T-8542) has been brought up to the date of the field inspection and fulfills the instructions for Project 307. However, two test shots, nos. 645 and 646, at 1:20,000 scale were taken with the 9 lens camera in 1945. Inspection reveals only minor changes differences notably of which are (1) a dock at the outlet of Pine Hill Creek, (2) four large tanks near the landmark and triangulation station, "Checkered Tank Elevated, 1943", (3) additional taxiways and roads on the NAS and (4) Fresh Pond on Cedar Pt. appears to break through into Chesapeake Bay at seasonal intervals. These differences have not been shown on 7-8542.

Reviewed by:

Under the direction of:

August 26, 1949

Technical Assistant to the Chief Division of Photogrammetry

Chief, Nautical Chart Branch, Division of Charts

NAUTICAL CHARTS BRANCH

SURVEY NO. T-8542

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
Aug. '49	561	C.R.W.	Before After Verification and Review
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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.