

8543

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-8543

LOCALITY

State MARYLAND

General locality PATUXENT RIVER

Locality SOLOMONS ISLAND

1943

CHIEF OF PARTY

R. L. Scheppe

LIBRARY & ARCHIVES

DATE Mar 14 - 1951

3450

## DATA RECORD

T- 8543

Quadrangle (II):

Project No. (II): 307

Field Office:

Chief of Party: Ray L. Schoppa

Compilation Office:  
Washington, D. C.

Chief of Party: R. W. Knox

Instructions dated (II III):  
August 26, 1943  
Sept. 4, 1943K. T. Adams  
Division of Photogr.  
Copy filed in Descriptive Office  
Report No. 2 (VI) Files.  
Project 307~~Completed survey received in office;~~

Reported to Nautical Chart Section: Oct. 1943

Reviewed: 9-20-49 Applied to chart No. 553 Date: Sept. 1949

Redrafting Completed: 1-16-50

Registered: 2-2-51

Published: 7-20-51

Compilation Scale: 1:10,000

Published Scale: 1:10,000

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927

Datum Plane (III): <sup>M H W</sup> Mean Sea Level

Reference Station (III): Solomons Methodist Episcopal Church, 1907

Lat.: 38° 19' 23.079" Long.: 76° 27' 37.441" Adjusted  
(711.6 meters) ✓ (909.5 meters) ~~Unadjusted~~

State Plane Coordinates (VI): Maryland

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
12488	11-27-42	1:58	1:10,000	0.61 Above MLW
12489	11-27-42	1:59	1:10,000	0.62 Above MLW
12490	11-27-42	1:59	1:10,000	0.62 Above MLW
12491	11-27-42	2:00	1:10,000	0.62 Above MLW
12529	11-27-42	2:34	1:10,000	0.73 Above MLW
12530	11-27-42	2:35	1:10,000	0.73 Above MLW

Tide from (III): Table of predicted tides - reference station - Baltimore, Maryland with corrections for Solomons Island, Md.  
Mean Range: 1.2' Spring Range: 1.4'

Camera: (Kind or source) USC&GS nine-lens camera. (focal length 8 1/4")

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

Field Edit by: Not field edited date:

Date of Mean High Water Line Location (III):  
Same as date of field inspection

Projection and Grids ruled by (III) Washington office date: Sept. 10, 1943

" " " checked by: Washington 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: C. Harnovich date: Oct. 1943

Reviewed in compilation office by: Roscoe J. French date: Sept. 1949

~~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;

*20*

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:

MAP T-8543 PROJECT NO. 307 SCALE OF MAP 1:10,000 SCALE FACTOR 1:00

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\phi$ -COORDINATE LONGITUDE OR $\lambda$ -COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927-DATUM		Remarks
								FROM GRID OR PROJECTION LINE IN METERS	FORWARD (BACK)	
A.T.B. Black Stack No. 4, 1943	452 N.D.	N.A. 1927	38 19 34.422	76 27 20.850				1061.3		
Solomons Island Thin Tank (Esso) 1943	449 407-12	"	38 19 13.834	76 27 10.043				426.5		Not plotted
Solomons Island Short Tank (Esso) 1943	449 407-12	"	38 19 13.693	76 27 09.713				244.0		Not plotted
Solomons Island Large Tank (Esso) 1943	229 407-12	"	38 19 14.108	76 27 09.826				422.2		Recovered as "CAN" on 9L Photo 12530
Solomons Island Shoal Lighthouse 1943	452 N.D.	"	38 19 09.59	76 27 02.02				235.9		
Solomons Elementary School, South ventilator 1944	452 407-12	"	38 19 52.562	76 27 53.937				435.0		
Solomons, St. Peters Episcopal Church, 1943	449 407-12	"	38 19 15.407	76 27 31.144				238.7		
Solomons Island Wharf Lighthouse, 1943	449 407-13	"	38 19 01.995	76 27 04.985				475.0		Recovered as "HOG" on 9L Photo 12530 in 1942
Sandy, 1943	446 407-12	"	38 18 58.189	76 27 21.109				61.5		
Solomons Island Methodist Episcopal Church, 1907	448 407-14	"	38 19 23.076	76 27 37.440				121.1		
Solomons, Our Lady Star of the Sea Catholic Church, 1943	448 407-12	"	38 19 29.807	76 27 39.519				1794.1		
Preston Woolburt Yellowhouse, cupola 1944	451 407-12	"	38 19 41.457	76 27 47.983				512.8		
								711.5		
								909.5		
								919.0		
								960.0		
								1278.2		
								1165.5		

MAP T. 8543 PROJECT NO. 307 SCALE OF MAP 1:10,000 SCALE FACTOR 1.00

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION		N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		Remarks FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
Gyro	451 407-12	NA 1927	38 76	19 27	59.332 27.050				1829.4 657.0		
Point Patience Lighthouse, 1943	448 407-13	"	38 76	19 29	44.184 02.830				1362.3 68.7		
Cap. 1943	446 407-12	"	38 76	19 28	55.715 42.734				1717.9 1037.9		
Creek, 1943	446 407-13	"	38 76	21 29	53.929 07.559				1662.8 183.5		
U.S. Naval Air Station, east radio tower, 1943	450 407-11	"	38 76	16 27	36.825 39.917				1135.4 970.2	Recovered as "TAW" on 9L photo 12487	
U.S. Naval Air Station, center radio tower, 1943	450 407-11	"	38 76	16 27	32.887 40.442				1014.0 983.0	Recovered as "HAD" on 9L photo 12487	
U.S. Naval Air Station, west radio tower, 1943	450 407-11	"	38 76	16 27	35.218 44.505				1085.9 1081.7	Recovered as "ODG" on 9L photo 12487	
U.S. Naval Air Station, tall elevated water tank, 1943	450 407-11	"	38 76	16 27	16.013 02.375				493.7 57.7		
Chase, 1942	301 —	"	38 76	17 28	11.336 40.664				349.5 988.3		
Ben (RM) MSFC, 1907	446 —	"	38 76	18 28	16.001 04.267				493.4 103.7		
Lewis, 1943	446 407-12	"	38 76	19 28	18.992 31.184				585.6 757.5		
Ham, 1943	446 407-12	"	38 76	19 29	57.373 25.829				1769.0 627.3		

1 FT. = 3048006 METERS  
COMPUTED BY: U.P. List  
CHECKED BY: R. J. French  
DATE: August 29, 1949  
M. 2386-12







## **Field Inspection**

Field inspection data for the area of T-8543 are contained in the "Report on Field Inspection, Patuxent River, Maryland" by Wendell Bever, Jr., and C. O. Rector, dated Sept. 1943.

This report is filed in the Division of Photogrammetry General Files.

## COMPILATION REPORT

T-8543

26. Control

The control within the limits of this Map Manuscript is summarized in the report for sheet No. T-8542.

27. Radial Plot

A main radial line plot was completed for the area covered by sheet numbers T-8542 to T-8546, inclusive. Refer to the report for sheet No. T-8542 for a complete discussion on the radial plot.

28. Detailing

Sheets T-8542 and T-8543 were detailed at the same time and the section on detailing in the Compilation Report for T-8542 covers the work done on T-8543.

29. Supplemental Data

Graphic control surveys were made in the area of sheet T-8543. Graphic control sheet 6951-B, scale 1:10,000, covers the western limits of the Patuxent River Naval Air Station on up the west side of the Patuxent River to Town Point and approximately latitude  $38^{\circ} 19' 50''$  and thence eastward to the edge of the sheet. This includes Solomons Island.

Very minor adjustments were made to the radial plot locations of hydrographic and topographic stations in order to conform with the planetable locations and additional stations were added from the planetable sheet. Shoreline was also transferred from the planetable sheet in the vicinity of the Naval Air Station.

In the area of the U. S. Naval Mine Warfare Test Station shoreline, piers, etc., were applied from graphic control surveys. The graphic control sheet covered the immediate vicinity north and south of Point Patience and the west shore of Patuxent River opposite Point Patience. Also, the shoreline west of Town Point.

Within the area of the Test Station no roads, buildings or improvements were added other than those evident on the photographs. However, plan layouts are available. The graphic control sheet had no assigned number and was titled sheet (NC) T-696/ For further information refer to compilation report on sheet T-8542.

30. Mean High-Water Line

The Mean High-Water Line (firm ground) has been detailed in accordance with the data submitted by the Field Inspection Party and shown on the Map Manuscript with a full heavy-weight black acid ink line.

The outer limits of marsh area have been shown on the Map Manuscript by a full light-weight black acid ink line. The light-weight line is not considered to be the Mean High-Water Line but is only an indication of the outer limits of low wet land at Mean Low-Water.

31. Low-Water and Shoal Lines

No Mean Low-Water Line has been shown on this Map Manuscript. A <sup>shallow</sup> shoal line is present off the south shore of the Patuxent River north of the Patuxent River Naval Air Station.  
*See item #28 Review Report on "sand + beach" areas.*

32. Details Offshore from the High-Water Line

Lights and other offshore features indicated by the field inspection data have been shown on the Map Manuscript.

33. Wharves and Shoreline Structures

Piers and other shoreline structures have been detailed in accordance with the field inspection data and shown with the conventional symbol accompanied by descriptive notes.

34. Landmarks and Aids to Navigation

Landmarks and aids to navigation in the area of this Map Manuscript recommended for charting are listed on Form 567 in the report for T-8542.

35. Hydrographic Control

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

Form 524 cards are available for the recoverable topographic stations which are described and named on the Map Manuscript. *Filed in Division Photogrammetry General Files.*

36. Landing Fields and Aeronautical Aids

The Patuxent River Naval Air Station falls, in part, on the extreme southeast area of this Map Manuscript. No aeronautical aids had been recommended by the Field Inspection Party.

37. Junctions

The junction to the east with T-8542 and to the north with T-8544 is in agreement.

The shoreline junction to the north with T-8545 is in agreement. ~~Interior detail on T-8545 is incomplete at date of this report.~~

38. Geographic Names

A geographic names investigation was made for the area of Survey No. T-8543. Alphabetical lists of the undisputed and disputed geographic names are contained in a separate Special Report on Investigation of Geographic Names for Project CS-307. *Filed in Geographic Names Section, Div. Charts.*

39. Horizontal Accuracy

The probable error is believed to be within the limits of satisfactory accuracy, that is, not in excess of 0.5mm.

40. Comparison with Existing Topographic Quadrangles

Drum Point quadrangle, USGS, scale 1:62,500, surveyed in 1890, revised in 1900 and 1904, and Leonardtown quadrangle, USGS, scale 1:62,500, surveyed in 1933 and 1936 are now superseded by the U.S.E. quadrangle Solomons Island, scale 1:31,680, surveyed in 1944. No apparent discrepancies are discernible between the latest U.S.E. quadrangle and sheet T-8543.

41. Comparison with Nautical Charts

T-8543 was compared with Chart No. 553, scale 1:40,000, latest print date August 11, 1945. On the basis of a visual inspection the chart was found to compare favorably with the Map Manuscript.

Respectfully submitted

K. N. Maki  
K. N. Maki

Approved by

L. C. Lande  
L. C. Lande

G2-SMP 061

3 August 1950

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, Patuxent 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, G-2:

2 Incls

1. Map No. T-8542
2. Map No. T-8543

JOHN W. MIDDLETON

Colonel, CSC

Chief, Security & Training Division

## Hydrographic Stations T-8543

- Race - Center of large house - 4 sided roof.
- Sew - Chimney on highest section large white house.
- Tell - East chimney white house (ship pt.).
- Mend - East chimney large white house.
- Man - Flagpole on C.G. shore patrol house.
- Jar - NE gable red house.
- Kit - SW gable, large green trim white house.
- Joe - SW chimney Bowen's Hotel.
- Lass - East gable long roofed lunchroom.
- Key - East gable house.
- Off - Flagpole on shore near Back Creek Lt. #5 (beacon).
- Far - Flagpole SE face barn.
- Quit - Chimney, N. Gable House.
- Ill - SW stack of two on building.
- Wipe - Windmill on point.
- Gap - W. gable, westerly building.
- Rend - Chimney, south gable white house.
- Egg - Elevated water tank.
- Dill - South chimney brick building.
- Goat - End of pier.
- Date - SE corner of pier (pier 3).
- Car - East gable C.G. building.
- New - Front range - at MHW (North of Pier No. 2).
- Old - Center range (North of Pier No. 2).
- Put - Rear range - on road (North of Pier No. 2).
- Gas - Small shack on end of pier.
- Sex - Front range } south of Pier 2
- Up - Rear range } on Ft. Patience
- Hun - Chimney on west end of red brick house.
- In - Top of water tank.
- King - Red brick chimney.
- Jet - South gable of small superstructure on building  
nearest of two to river.
- Mess - Red brick chimney.
- Lap - Black stack.
- Pit - Pile offshore from topographic station stack, 1943,  
Northwesterly of six.
- Quiz - South gable of South cottage with two dormer windows.
- Rate - Elevated water tank.
- Wake - Front range off mouth Hungerford Creek.
- Your - Rear range off mouth Hungerford Creek.
- Ann - South gable of small green cottage.
- Dud - West gable of brown house in trees.
- Epic - Chimney on south end of large white house.
- Jock - SE gable of small shack.
- Quit - End of pier.
- Full - End of pier.
- Job - West rear range (pile).
- Kind - East rear range (pile).
- Vele - West front range (pile).
- Car - East front range (pile).
- Meat - End of pier.
- Ham - Small house on piles.
- Fake - Chimney center grey house.



Survey No. T-8543

[illegible]



## GEOGRAPHIC NAMES

Survey No.

**T-8543**

**2**

Name on Survey

On Chart  
No.

No.	On previous survey	On U. S.
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On U. S. quadrangle  
Maps

From local information

On local Maps

P. O. Guide or Map

or Map  
Rand McNally Atlas  
U. S. I

U. S. Light List

[illegible]



## Survey No.

T-8543

[illegible]



Review Report T-8543<sup>7</sup>  
Planimetric Map  
20 Sept. 1949

26. Control.--All USC&GS triangulation stations within the limits of this manuscript were recovered during field inspection and all except ~~three~~ <sup>two</sup> are plotted thereon. They are listed on Form M-2388-12 with this report. The ~~three~~ <sup>two</sup> stations mentioned are so close as to prevent plotting (see Form M-2388-12). *Town Topo, 1942 plotted on RIF.*

Twenty topographic stations which were located by the radial line plot were scaled and listed on Form 524 cards during review. Topographic station "GABLE(LOG), 1943 on Solomons Island scales a different G.P. than is shown on planetable sheet T-6951b (1943). The radial plot position is shown on the Form 524 card as being correct since there is strong control in the near vicinity, and because it is clearly identifiable on three photographs.

Mention is made on page 2 of correspondence with the "COWIE" (T-8542) of the existing difference between the planetable position of topographic station "chimney at west end of hotel(9), and the radial plot position. This was investigated during review and found to be due to wrong pricking on the photograph. The station was reidentified and cut in as topographic station HOTEL(GUN)1943. This position now agrees with T-6951b.

The Maryland state grid was added during review and assigned quantities as submitted by Geodesy.

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

A woods cover classification was submitted by the field inspection party, and was used to determine the limits of woodland types to conform with the present practice for showing forested areas.

The Navy is on record as wanting the two range lines immediately N and S of Pier No. 2 on Pt. Patience shown on the finished map.

28 a. Classification

The photographs, the map manuscript, and the descriptive report are marked RESTRICTED as per authority of the Security Classification Map dated December 16, 1946.

*Now declassified Aug. 1950 RIF*

29. Supplemental Data.--Graphic control surveys T-6027A and ~~T-6027B~~ (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.

Plan layouts of two Navy establishments north of Solomons were not available during review and the boundaries are shown as given by the field inspection photographs. Fifty two (52) hydrographic stations of a permanent nature were transferred from the planetable surveys and are shown on the manuscript and listed separately in this report.

34. Aids to Navigation.-Two aids to navigation in Back Creek (Lights 1 and 2) were plotted and the positions scaled for Form 567 and Form 524.

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-237	1:20,000	1848	
T-2861	1:20,000	1907-8	
T-6951b	1:10,000	1944	
H-6876	1:10,000	1944	) Graphic Control.
H-6877	1:10,000	1944	) Shoreline from this survey (T-8543) was applied to H-6876 and H-6877 in conjunction with hydrographic surveys in operation at that time.

T-8116	1:20,000	Quadrangle 1943
USGS	Drum Pt., Md.	Quadrangle 1:62,500, 1904
USE (USC&GS)	Solomons Island, Md.	Quad. 1:31,680 - 1944
USGS	Leonardtwn, Md.,	Quadrangle 1:62,500 - 1936

45. Comparison with Nautical Charts.-Several uncharted wrecks and foul areas were added during review as indicated on the field inspection photographs.

This survey was applied to hydrographic surveys H-6876 and H-6877 (1944) 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

Page 3.

T-8543

3

47. Adequacy of the Compilation.--This map (T-8543) has been brought up to the date of the field inspection and fulfills the instructions for Project 307. Two test shots with the 9 lens camera, Nos. 645 and 646 at 1:20,000 scale, were flown in 1945 but have not been applied to the manuscript.

Reviewed by:

Roscoe J. French  
R. J. French

Approved by:

L. V. Griffith  
Chief, Review Section  
Div. of Photogrammetry

H. B. Emerson  
Chief, Nautical Chart Branch  
Division of Charts

O. S. Reading  
Chief, Div. of Photogrammetry

J. G. Hollenbeck  
Chief, Div. of Coastal Surveys  
1947

## NAUTICAL CHARTS BRANCH

SURVEY NO. 7-8543

### Record of Application to Charts

[illegible]

**M-2168-I**

**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.**