

8074

Diag'd. on Diag. Ch. No. 78-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Air Photographic
(Shoreline)

Field No. CS-283 Office No. T-8074

LOCALITY

State Virginia

General locality Chickahominy River

Portions of East Shore of the
Locality Chickahominy River from Blackstump
Creek to Hog Neck Creek and Shipyard
Yarmouth and Little Creeks

194 1-'43

CHIEF OF PARTY

H.O. Fortin

LIBRARY & ARCHIVES

DATE December 19, 1949

8074

DATA RECORD

Form T-1

T- 8074

Quadrangle (II): Toano, Va. 15 minute

Project No. (II): CS 283

Field Office: Air Photographic Party #2 Chief of Party: Henry O. Fortin
Fred. L. PeacockCompilation Office: Chief of Party: Fred. L. Peacock
Baltimore Photogrammetric Office

Instructions dated (II III):

March 26, 1942 - July 15, 1942, Sept. 30, 1942
Nov. 14, 1942 and Nov. 24, 1942Copy filed in Descriptive
Report No. T- (VI)
Div. of Photogrammetry General FilesCompleted survey received in office: 3 Nov. 1944Reported to Nautical Chart Section: 10 Nov. 1944Reviewed: 18 Aug. 1948 Applied to chart No.

Date:

Redrafting Completed: 23 June, 1949Registered: 14 November, 1949

Published:

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): Mean ^{H W} Sea Level

Reference Station (III): CHICKAHOMINY, 1942

Lat.: $37^{\circ} 21' 15.776''$
 $486.3(1363.4)m$ Long.: $76^{\circ} 49' 02.208''$
 $54.3(1422.4)m$ Adjusted
~~Unadjusted~~State Plane Coordinates (VI): Virginia, South State Grid

X = _____

Y = _____

Military Grid Zone (VI) _____

PHOTOGRAPHS (III)

Eastern
Standard

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
7766	11/26/41	11:50 A.M.	1:10,000	1.0' above M.L.W.
7768-7770	11/26/41	11:55 A.M.	1:10,000	0.9' above M.L.W.
7805-7806	11/26/41	12:29 P.M.	1:10,000	0.7' above M.L.W.
7807-7818	11/26/41	12:35 P.M.	1:10,000	0.7' above M.L.W.
7537	11/25/41	11:22 A.M.	1:10,000	0.6' above M.L.W.

Tide from (III): Predicted Tables, Reference Station, Hampton Roads, Va. with corrections for Mt. Airy, Va.

Mean Range: 2.2'

Spring Range: 2.5'

Camera: (Kind or source) U.S.C.&G.S. 9 lens Camera (focal length $8\frac{1}{4}$ ")

All negatives are on file in the Washington Office

Field Inspection by: Lieut. Comdr. Henry O. Fortin

date: Jan. 1943 to April 1943

Field Edit by: *None*

date:

Date of Mean High-Water Line Location (III): Date of photographs supplemented by field inspection data obtained in 1943. Season's field inspection reports previously submitted

Projection and Grids ruled by (III) JT - PJH Office (Washington) date: 9/27/44

" " " checked by: BRC - JT (Washington Office) date: 9/28/44

Control plotted by: Harold R. Brooks date: 9/30/44

Control checked by: Mildred M. Trautman date: 10/3/44

Radial Plot by: J.E. Deal, Jr. & A.C. Rauck, Jr. date: 10/9/44 to 10/13/44

Detailed by: James L. Harris date: 10/13/44 to 10/28/44

Reviewed in compilation office by: Harold R. Brooks date: 10/31/44

Elevations on *Map Manuscript* Field Edit Sheet checked by: *None*

date:

STATISTICS (III)

Land Area (Sq. Statute Miles): This Map Drawing includes shoreline and adjacent planimetric detail only

Shoreline (More than 200 meters to opposite shore): 3 miles

Shoreline (Less than 200 meters to opposite shore): 22 miles

Number of Recoverable Topographic Stations established: 5

Number of Temporary Hydrographic Stations located by radial plot: 21

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:

Summary to Accompany T-8074

Shoreline survey T-8074 (scale 1:10,000) is one of 40 similar maps in project CS-283, James River, Virginia. This survey covers Yarmouth Creek and the eastern shore of Chickahominy River from Blackstump Creek to Shipyard Landing. Its limits are Latitude $37^{\circ}18-3/4'$ - $22\frac{1}{2}'$ N, Longitude $76^{\circ}48'$ - $52\frac{1}{2}'$ W.

Project CS-283 was planned as a planimetric project. It was changed to a shoreline survey when War Mapping Project CS-289, which included practically all of James River, was undertaken. Originally, CS-289 provided for 70 maps, but only 35 were completed as "War Mapping." The remaining 35 maps have been assigned sub-project numbers (CS-289:1, 1/2, 1/3, X) and many of them have not yet been compiled.

Topographic quadrangle T-8324 completely covers the areas of T-8074 and T-8075. It falls in CS-289:1, which is being compiled by the stereocartograph from 1:20,000 scale photographs. Quadrangle T-8324 is not yet compiled.

Data pertaining to T-8074 is filed as follows:

A. Division of Photogrammetry General Files:

1. Acetate manuscript.
2. Five forms 524 (recoverable topographic stations)
3. Field inspection report.
4. Radial plot report.

B. Bureau Archives

1. Registered lithographic print of the reviewed manuscript at compilation scale.
2. Registered descriptive report.

Field Inspection

Field inspection data for the area of T-8074 are contained in "Report of Field Inspection of Air Photographs, James River and Tributaries, Season 1943", by H. O. Fortin, dated 20 April, 1943.

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

26. CONTROL:

This Map Drawing includes portions of the East Shore and adjacent planimetry of the Chickahominy River and its tributaries falling between Black Stump Creek and Hog Neck Creek. Also included are the shore lines and adjacent planimetry of Little Creek and Yarmouth Creek from their mouth to approximately one mile beyond the limits of small boat navigation.

The following horizontal control stations fall within the limits of this Map Drawing:

U. S. COAST AND GEODETIC SURVEY SECOND ORDER TRIANGULATION STATION:
CHICKAHOMINY, 1942 (F.I.P. CHICK)

U. S. GEOLOGICAL SURVEY TEMPORARY TRAVERSE STATIONS:

1. NORGE, ROAD CROSSING AT DEPOT, EAST-BOUND TRACK. (No. 17)
2. SECOND-CLASS ROAD CROSSING, EAST-BOUND TRACK. (No. 18)
3. LIGHTFOOT, OPPOSITE OFFICE WINDOW OF POST OFFICE, (No. 19)
CENTER OF EAST-BOUND TRACK

All of the above mentioned horizontal control stations were used along with other horizontal control stations falling within the area of the Map Drawing to the north, Survey No. T-8073, for the establishment of photograph centers, secondary control points and detail points.

27. RADIAL PLOT:

The Radial Plot for this Map Drawing is part of the combined Radial Plot for Surveys Nos. T-8073, T-8074, T-8080, T-8081, and T-8082, the descriptive report for which was forwarded to the Washington Office on October 31, 1944.

28. DETAILING:

The Mean High-Water Line, Marsh Line, and immediately adjacent planimetric detail of the parts of the Chickahominy River and its tributaries, shown on this Map Drawing have been detailed in accordance with the original instructions dated March 26, 1942, and The Director's letters dated July 15, 1942 and September 30, 1942, pertaining to Project No. CS-283.

Positions of minor detail points, temporary hydrographic stations, and recoverable topographic stations were determined by the usual radial line method.

The shoreline data furnished the Compilation Office by the Field Inspection Unit, after being verified by careful stereoscopic examination, were transferred to the office photographs. These data were then detailed on the Map Drawing.

28. DETAILING: (Continued)

Portions of the Mean High-Water Line and Marsh Line along the Chickahominy River and its tributaries, which could not be definitely identified by the Field Inspection Unit were shown on the field inspection photographs by dashed red lines for Mean High-Water Line and by dashed green lines for the outer limits of marsh. These undetermined sections of Mean High-Water Line and Marsh Line are believed to have been accurately determined by the Compiler through careful stereoscopic examination of the photographs and have been shown on the Map Drawing with the usual full conventional acid ink line.

All drainage within the limits of the Map Drawing flowing into the Chickahominy River and its tributaries has been detailed. In instances where minor drainage was obscured by overhanging trees or brush and it could not be accurately determined by stereoscopic examination of the photographs, this indefinite drainage was shown on the Map Drawing with a light-weight, dashed acid ink line.

Roads not classified by the Field Inspection Unit, were classified and shown according to the Compiler's interpretation from the nine lens photographs after comparison with available topographic quadrangles.

Tree areas not classified by the Field Inspection Unit, were interpreted by the Compiler from the nine lens photographs. These unclassified areas have been detailed and shown with conventional symbols.

All buildings immediately adjacent to the shoreline have been detailed.

The number of nine lens photographs, covering the area, was sufficient to adequately compile this Map Drawing. However, the spacing of the photographs in each flight strip did not provide satisfactory center chamber coverage for the area of this Map Drawing which this Compilation Office was instructed to detail.

A list of abbreviations used on this Map Drawing, accompanied by explanatory notes, has been shown in the lower right hand margin.

29. SUPPLEMENTAL DATA

No supplemental data were furnished the Compilation Office for use in detailing the Map Drawing.

30. MEAN HIGH-WATER LINE:

The conventional full, heavy weight and light-weight black, acid ink lines have been used to differentiate between the Mean High-Water Line and the outer limits of marsh bordering the Mean High-Water Line respectively. The light-weight line is an indication of low wet land at Mean High-Water, and is not considered to be the Mean High-Water Line. It is referred to in

30. MEAN HIGH-WATER LINE:

this descriptive report as the "Marsh Line".

31. LOW-WATER AND SHOAL LINES:

No Mean Low-Water Line has been shown on the Map Drawing, and none was indicated by the field inspection data, or was visible on the nine lens photographs.

Shoal lines were identified by the Field Inspection Unit and have been shown on the Map Drawing by a short dash, light-weight, black acid ink line, with the word "shoal" lettered inside the shoal area.

32. DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

Piling, stake areas, snags, logs, or trees in the water, were identified by the Field Inspection Unit on the field photographs, and have been detailed accordingly. Pertinent notes are shown near each of these offshore details.

33. WHARVES AND SHORELINE STRUCTURES:

Piers, catwalks, docks, piling and stakes were identified by the Field Inspection Unit, on the field photographs. These were detailed on the Map Drawing, accompanied by appropriate notes.

34. LANDMARKS AND AIDS TO NAVIGATION:

No objects were recommended for charting as Landmarks by the Field Inspection Unit.

There are no fixed aids to navigation within the limits of this Map Drawing.

35. HYDROGRAPHIC CONTROL:

The Compilation Office was furnished the identification of twenty-one temporary hydrographic stations and five recoverable topographic stations. These were identified on the 1:10,000 field photographs by number, and their descriptions listed in field sketch books (Form 274) by corresponding numbers. These stations were transferred to the office photographs, and radially plotted on the Map Drawing. The number of each of these stations and its description have been noted on the Map Drawing near the station to which they refer. The notation "Also RECOVERABLE TOPOGRAPHIC STATION" has been added to the descriptions of the five recoverable topographic stations. *List attached.*

Form 524 is being submitted for the five (5) recoverable topographic stations. They are:

35. HYDROGRAPHIC CONTROL: (Continued)

S. GABLE BOAT HOUSE	(Sta. No. 252
W. GABLE DARK COLORED COTTAGE	249
BUSHY CYPRESS (20')	247
LONE CYPRESS (20')	310
LONE BUSHY CYPRESS-W of DOCK	312

36. LANDING FIELDS AND AERONAUTICAL AIDS:

The Compilation Office has not been furnished any data for landing fields or aeronautical aids within the limits of the Map Drawing, and none was visible on the nine lens office photographs.

37. JUNCTIONS:

To the North - satisfactory junction has been made with the Map Drawing for Survey No. T-8073

To the West - satisfactory junction has been made with the Map Drawing for Survey No. T-8080

To the South - satisfactory junction has been made with the Map Drawing for Survey No. T-8075

There was no contemporary survey to the East.

38. GEOGRAPHIC NAMES: 844✓

As instructed, no geographic names investigation was furnished the Compilation Office by the Field Inspection Unit. The geographic names shown on this Map Drawing were taken from the following available sources:

U. S. Coast and Geodetic Survey Chart No. 530 dated March 6, 1944
U. S. Geological Survey, Toano, Va., 15 min. Quad. Surveyed in 1917

A list of these names, which are believed by the Compilation Office to be undisputed, is attached to this descriptive report. *Approved by Geographic Names Section*

39. HORIZONTAL ACCURACY:

The probable error in the position of detail points, the Mean High-Water Line, and well-defined objects is believed to be within the limits of satisfactory accuracy.

40. RECOMMENDATIONS FOR FUTURE SURVEYS:

This rough draft, shoreline survey for the Map Drawing for Survey No. T-8074 is believed to be complete in all details for charting and no other surveys are deemed necessary.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Due to scale difference a visual comparison only could conveniently be made with the United States Geological Survey, Toano, Va. 15 min. quadrangle, Scale 1:62,500, surveyed in 1917, edition of 1930. All common planimetric detail was in generally good agreement. However, a pond at the head of Yarmouth Creek has been detailed on the Map Drawing which does not appear on the quadrangle.

45. COMPARISON WITH NAUTICAL CHARTS:

Generally satisfactory agreement of common planimetric detail was found upon comparison with the U. S. Coast and Geodetic Survey Chart No. 530, scale 1:40,000, dated September 1940 and revised March 6, 1944.

Respectfully submitted
October 31, 1944

James L. Harris
James L. Harris
Air Photographic Observer

Compilation and Descriptive
Report Reviewed by:

Harold R. Brooks
Harold R. Brooks
Senior Engineering Aid

Compilation of Map Drawing
Supervised by:

J. Edward Deal, Jr.
J. Edward Deal, Jr.
Assistant Photogrammetric Engineer

Approved and Forwarded
November 3, 1944.

Fred. L. Peacock
Fred. L. Peacock
Chief of Party, C & G Survey
Officer in Charge
Baltimore Field Office

Chickahominy River
Black Stump Creek to Hog Neck Creek
Part of Project No. CS-283

List of names, numbers, and descriptions of the Recoverable Topographic Stations, and the numbers and descriptions of the Temporary Hydrographic Stations appearing on Map Drawing Survey No. T-8074.

Number of Temporary Hydrographic Stations 21

Number of Recoverable Topographic Stations 5

Total number of stations 26

Listed by: James L. Harris Checked by: L.T. Stevens

246. Low tree on E. shore at edge of water.
247. Bushy cypress in water on E. side and S. of mouth of large creek (Recoverable Topographic Station).
248. Point of grass on N. side of entrance to small stream on E. side of river and just N. of mouth of large creek.
249. W. gable of dark colored cottage with dark roof. Brick chimney on E. end and flagpole on W. end (Recoverable Topographic Station).
250. N. end of patch of marsh grass next to line of trees and S.E. of mouth of creek.
251. S.W. corner of pier.
252. S. gable of boathouse, part white, part unpainted. Galv. roof, brick flue near E. end. Concrete foundation and S. of two-story brick dwelling. (Recoverable Topographic Station)
257. Low bushy cypress in edge of water just N. of double bushy cypress also in edge of water.
301. Point of grass on E. side of entrance to stream on N. side of Black Stump Creek.
303. Point of grass on N. side of entrance to small stream on W. side of B. S. Creek.
304. Point of grass on S. side of entrance to ditch on W. side of B. S. Creek.
305. Point of grass on E. side of small stream on N. side of Shipyard Creek.
306. Lone cypress in edge of water on S. side of Shipyard Creek. Tree is E. of edge of woods. (40')
307. Point of grass on W. side of entrance to stream on N. side of Shipyard Creek.
308. Point of grass at forks of Yarmouth Creek, and Shipyard Creek.
309. Lone cypress on S. side of Yarmouth Creek.

310. Lone 20' cypress on W. side of Yarmouth Creek. N.E. of two taller cypresses (Recoverable Topographic Station)
311. Point of grass on E. side of entrance to stream on W. side of Yarmouth Creek. Second stream on W. side S of fork with Shipyard Creek.
312. Lone bushy cypress W. of remains of dock. (Recoverable Topographic Station)
313. Point of grass on W. side of entrance to stream on S. side of Yarmouth Creek.
314. Point of grass on S. side of entrance to break in grass on E. side of Yarmouth Creek.
315. 30' cypress on point on E. side of entrance to bright at H.W.L.
316. Point of grass on N. side of Yarmouth Creek at bend.
317. S.W. corner of duck blind made of planks and in shape of a box on E. side of Yarmouth Creek N.E. of forks of Shipyard and Yarmouth Creeks.
318. Point of grass on N. side of entrance to small bright on E. side of tributary of Yarmouth Creek.
319. Point of grass on W. side of entrance to stream on N. side of tributary of Yarmouth Creek.

GEOGRAPHIC NAMES

Undisputed

- Blackstump —
- ~~Black Stump~~ Creek. (U.S.B.G.N. decision = one word)
- Chickahominy River. —
- Hog Neck Creek. —
- Little Creek • —
- Shipyard Creek. —
- Shipyard Landing. —
- Simpson Island. —
- Uncles Neck Creek. —
- Warren Pond • —
- Wright Island • —
- Yarmouth Creek • —
- Yarmouth Island • —
- Chickahominy Church (town name) —

Names followed by • are
approved. 8/19/48. L. Heck

DIVISION OF PHOTOGRAMMETRY
Review Report of
Shoreline Survey Map Manuscript T-8074

Subject numbers not used in this report have been adequately covered in other parts of the Descriptive Report.

28. DETAILING:

The compiler delineated the shoreline of the pond at the head of Yarmouth Creek without benefit of field inspection notes. The southern shoreline was moved northward during review, because image displacement had not been properly interpreted.

43. COMPARISON WITH PREVIOUS TOPOGRAPHIC SURVEYS:

1337a	1/20000	(with contours)	1873-5
2729b	1/20000	(without contours)	1906

Survey T-8074 supersedes these surveys, ^{for charting purposes} excepting contours, in their common areas.

44. COMPARISON WITH TOPOGRAPHIC QUADRANGLES:

U.S.G.S. Toano 1/62500 ed 1917, rev 1930

Some roads appearing on the quadrangle have not been delineated on the map manuscript. They were not visible on the photographs.

This survey supersedes the quadrangle, except for contours and roads, in their common areas.

45. COMPARISON WITH NAUTICAL CHARTS: 530 1/40000 ed 1940, Rev.12/48

The names Simpson Island and Yarmouth Island do not appear on the chart.

Blackstump Creek is not united to Yarmouth Creek as on the chart.

The indefinite shoreline in the extreme southwestern part of T-8074 differs from that on the chart.

46. APPLICATION TO CHARTS:

This map manuscript has not been applied to Chart 530 as of the date of this survey.

Reviewed by:

Under the direction of

Lena T. Stevens
Lena T. Stevens, Aug. 18, 1948

A. V. Griffith
Chief, Review Section *Chm.*

APPROVED BY:

B. J. Jones 11/49
Technical Assistant to the
Chief, Div. of Photogrammetry

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Chief, Nautical Chart Branch
Division of Charts

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1292