

8085

Diag. Cht. No. 78-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Photogrammetric Shoreline

Field No. Office No. T-8085

LOCALITY

State Virginia

General locality James River

Locality Chippokes Creek - Wards Creek

1941-'43

CHIEF OF PARTY

E.B.Lewey & H.O.Fortin, Chiefs of Party

F.L.Peacock, Balto. Photo. Office

LIBRARY & ARCHIVES

DATE

DATA RECORD

T- 8085

Quadrangle (II): Disputanta, Virginia
 Quadrangle (15') U.S.G.S. 1919

Project No. (II): C.S. 283

Field Office:
 Air Photographic Party No. 2

Chief of Party: ~~E.B. Lewey~~
~~Fred. L. Peacock~~
 H.O. Fortin

Compilation Office:
 Baltimore Photogrammetric Office

Chief of Party: Fred. L. Peacock

Instructions dated (II III): March 26, 1942
 Supplemental instructions dated
 July 15, Sept. 30, Nov. 14, 1942

Copy filed in ^{Division of} ~~Descriptive~~
~~Report No. T-~~ (VI)
 Photogrammetry Office Files

Completed survey received in office: 9 June, 1944

Reported to Nautical Chart Section: June 1944

Reviewed: 2 Sept., 1948

Applied to chart No.

Date:

Redrafting Completed: 11-30-49

Registered: 8 Feb. 1950

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): CLAREMONT, 1932, r.1942

Lat.: 37° 11' 58.812" (1813.0m) Long.: 76° 59' 43.750" (1078.9m) ^{Adjusted}
~~Unadjusted~~

State Plane Coordinates (VI): Virginia South Grid

X = 2,438,185.47

Y = 318,907.24

Military Grid Zone (VI) —

PHOTOGRAPHS (III)
(unmounted)

<u>Number</u>	<u>Date</u>	<u>Time</u> E.S.T.	<u>Scale</u>	<u>Stage of Tide</u>
7467	11/25/41	10:27 A.M.	1:10,000	** 0.54 ft. above F.L.W.
7468	11/25/41	10:27 A.M.	1:10,000	* 0.9 ft. " "
7469	11/25/41	10:27 A.M.	1:10,000	* 0.9 ft. " "
7470	11/25/41	10:27 A.M.	1:10,000	* 0.9 ft. " "
7471	11/25/41	10:27 A.M.	1:10,000	** 0.54 ft. " "

Tide from (III), Predicted tables for Hampton Roads, Virginia, corrected to
*Claremont Wharf and the ** mean between Sturgeon Point and Windmill Point

Mean Range; *2.0' Spring Range: * 2.4'
**2.25' ** 2.7'

Camera: (Kind or source) U.S.C.G.S. nine lens camera (focal length 3 1/2")
All negatives are on file in the Washington Office

Field Inspection by: Lieut. E. B. Lewey **date:** Summer 1942
Lieut. Commander Henry O. Fortin Season 1943

Field Edit by: *None* . date:

Date of Mean High-Water Line Location (III); Date of photographs supplemented by field inspection data obtained in 1942 and 1943. Season's Field Inspection Reports previously submitted.

Projection and Grids ruled by (III) P.F.C. and P.L.T. date: 10/6/43
Washington Office

checked by: P.R.C. - date: 10/7/43
Washington Office

Control plotted by: Walter E. Schmidt **date:** 10/25/43

Control checked by: Walter E. Schmidt **date:** 10/25/43

Radial Plot by: Walter E. Schmidt date: Nov. 1943

Detailed by: Ruth M. Whitson (Shore line - rough draft) **date:** (5/12/44)
(6/7/44)

Reviewed in compilation office by: Harry R. Rudolph date: (5/13/44)
(5/7/44)

Elevations on ~~Field Edit Sheet~~ *Map Manuscript*
checked by: *Not applicable* date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 3

Shoreline (More than 200 meters to opposite shore): 2 Statute Miles

Shoreline (Less than 200 meters to opposite shore): 16 2/3 Statute Miles
Measured along the center line of creeks

Number of Recoverable Topographic Stations established: 4 by radial intersection

Number of Temporary Hydrographic Stations located by radial plot: 32

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:

Field Inspection

Field inspection data for the area of ⁸⁰⁸⁵T1-15 are contained in the "Report on Field Inspection of Air Photographs, James River, Newport News to Hopewell, Virginia" by Ernest B. Lewey, dated October 12, 1942. Filed in Division of Photogrammetry, General Files.

26 CONTROL:

The horizontal control, shown on the Map Drawing with the conventional triangulation symbol, consists of 5 U. S. Coast & Geodetic Survey triangulation stations, all of which fall outside the detail limits. The names of the stations are as follows:

* BRAND, 1938, r.1942 (not used)

BRANDON BOATHOUSE, FLAGPOLE, 1938, r.1942

BRANDON WHARF LIGHT, 1938, r.1942

CLAREMONT, 1932, r.1942

WARTHAM, 1932, r.1942

Falls on T-8079

Falls on T-8077

Falls west of limits project

*Station not used to control the radial plot, because no field inspection data were furnished for identification.

27 RADIAL PLOT:

An individual radial plot was laid for the area of Map Drawing, Survey No. T-8085. No Celluloid templates were used. The results obtained were satisfactory, and the facts concerning the plot have been fully brought out in appendices "A" and "B" of the descriptive report for Map Drawing Survey No. T-8083, previously submitted.

28 DETAILING:

The shore line and immediate adjacent topographic features have been compiled in accordance with the written instructions.

The main bodies of water shown on the Map Drawing are portions of ^{Upper}Chippewas and Wards Creeks.

All important features have been detailed in accordance with the field inspection data, and shown on the Map Drawing with the conventional symbols.

The distribution of the photographs and the photographic coverage were adequate.

28 DETAILING: (Continued)

Since all notes pertaining to the area of the Survey were lettered on the Map Drawing, no overlay sheet was necessary.

30 MEAN HIGH-WATER LINE:

The Mean High-Water Line has been shown on the Map Drawing with a full heavy-weight black acid ink line, while the outer limits of marsh areas bordering the Mean High-Water Line have been shown with a full light-weight black acid ink line. The light-weight line is not considered to be the position of the Mean High-Water Line, but is only an indication of the outer limits of marsh areas visible on the photographs.

A dashed black acid ink line indicates that portions of the shore line were not clearly visible on any of the photographs because of overhanging trees growing along the banks of the creeks, or vegetation growing out into the water.

31 LOW-WATER AND SHOAL LINES:

Although the photographs were taken at a stage of tide between $\frac{1}{2}$ foot and 1 foot above Mean Low-Water, there appeared to be no part of the actual Mean Low-Water Line on this Map Drawing which could be delineated with confidence, either from field inspection data or examination of the photographs.

Grass-in-water areas, bordering the outer limits of definite marsh areas and firm Mean High-Water Line, have been shown on the Map Drawing with the conventional symbol.

The offshore limits of shoal areas have been shown with dashed light-weight black acid ink lines. The note "shoal" has been lettered on the Map Drawing for identification of the shoal areas.

The offshore limits of mud areas have been shown

31 LOW-WATER AND MUD LINES: (Continued)

with dotted black acid ink lines. The note "mud" has been lettered on the Map Drawing for identification of the mud areas.

32 DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

The Field Inspection Sub-Party verified the existence of several submerged logs, a fish trap, and some piling. Since the images of these objects were not visible on any of the photographs, the outlines of the approximate areas in which they were believed to be situated, were shown on the Map Drawing with dashed black acid ink lines, accompanied by descriptive notes. Further investigation by the operating hydrographic party of the above-mentioned features is recommended.

33 WHARVES AND SHORELINE STRUCTURES:

All piers or wharves, fallen trees, piling, rows of stakes, etc., immediately adjacent to the offshore side of the Mean High-Water Line or bordering marsh areas, have been shown on the Map Drawing with the conventional symbols, accompanied by descriptive notes.

34 LANDMARKS, AIDS TO NAVIGATION, AND AERONAUTICAL AIDS:

No charted landmarks or fixed aids to navigation appear within the area of the Map Drawing. No new landmarks, fixed aids to navigation or aeronautical aids, were recommended by the Field Inspection Sub-Party.

35 HYDROGRAPHIC CONTROL:

The radially plotted positions of 32 temporary hydrographic stations, and of 4 recoverable topographic stations, have been shown on the dull side of the Map Drawing with 2 $\frac{1}{2}$ mm. black acid ink circles. On the glossy side, relatively strong positions of these stations have been shown with small blue ink circles, while relatively weak positions have been shown with

35 HYDROGRAPHIC CONTROL: (Continued)

small green ink circles. The numbers and descriptions of the temporary hydrographic stations, and the numbers, names and descriptions of the recoverable topographic stations have been lettered on the Map Drawing. The recoverable topographic stations can be identified by the note "recoverable topographic station" lettered on the Map Drawing.

A list of the stations is attached hereto. 275

Form No. 524 has been submitted for the following four (4) recoverable topographic stations:

- No. 357 Lone Cypress - Near Edge of Woods
- No. 368 Tallest Cypress Near Point
- No. 371 W. Gable Two Story White House
- No. 426 Bushy Cypress.

*Filed in Div. of
Photogrammetry General Files.*

37 JUNCTIONS:

Junctions of shoreline and immediate adjacent culture, with Map Drawings, Surveys Nos. T-8084 to the North, and T-8078 to the East, are in excellent agreement.

There are no contemporary surveys to the South or West.

38 RECOMMENDATIONS FOR FUTURE SURVEYS:

The shore line, rough draft, Map Drawing, Survey No. T-8085, is believed to be complete in all details of importance for charting, and no other surveys are deemed necessary.

The relative detailed positions of important physical and cultural features are believed to be within the limits of satisfactory accuracy.

39 GEOGRAPHIC NAMES: 814

A partial investigation of geographic names was made for the area of this Map Drawing, by the 1942 Field Inspection Sub-Party, and submitted to this Compilation

39 GEOGRAPHIC NAMES: (Continued)

Office in the form of notes in a copy of the "U.S. Coast Pilot."

The geographic names shown on the Map Drawing are in accordance with the field inspection data, except in areas not included in the investigation. In such areas, the names shown have been taken from the best known sources available for use by this Compilation Office.

The disputed and undisputed names have been alphabetically compiled in two lists and are submitted herein. *Approved by Geographic Names Section*

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Disputanta, Virginia Quadrangle (15') U. S. Geological Survey, 1919 edition, reprinted 1938, scale 1:62,500.

Due to the large difference in scale, small planimetric details could not be readily compared. However, the following differences were apparent:

* At approximately Latitude $37^{\circ} 14' 47''$ and Longitude $77^{\circ} 01' 00''$, a pond has been shown on the Map Drawing, which does not appear on the quadrangle.

* At approximately Latitude $37^{\circ} 12' 03''$ and Longitude $77^{\circ} 02' 15''$, a pond has been shown on the Map Drawing, which does not appear on the quadrangle.

Three small tributaries of Wards Creek that appear on the quadrangle have not been shown on the Map Drawing, because no field inspection data were furnished for them, and because their images were not visible on any of the photographs.

* The limits of the marsh areas along the

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

southern portion of ^{Upper}Chippewas Creek, as shown on the Map Drawing, are in disagreement with the limits of the marsh areas appearing on the quadrangle.

* Several small piers have been shown on the Map Drawing that do not appear on the quadrangle.

* These differences also apply to Chart No. 530.

45 COMPARISON WITH NAUTICAL CHARTS:

Chart No. 530, published September 1940, corrected to March 25, 1942, Scale 1:40,000.

Due to scale difference, small planimetric details could not be readily compared. The following differences, however, were apparent:

At approximately Latitude $37^{\circ} 12' 30''$ and Longitude $70^{\circ} 01' 08''$, two small islands appear on the chart, within a mud area, which have not been shown on the Map Drawing.

No comparison in the area of Wards Creek could be made as it does not appear on the chart.

The differences discussed under side heading No. 44 that have been indicated with asterisks, also apply to the above-mentioned chart.

Respectfully submitted:
June 7, 1944

Ruth F. Whitson
Ruth F. Whitson
Sr. Engineering Draftsman

Compilation and Descriptive
Report Reviewed by:

Harry R. Rudolph
Harry R. Rudolph
Sr. Photogrammetric Aid

Supervised by:

Walter E. Schmidt
Walter E. Schmidt
Asst. Photogrammetric Engineer

Approved and Forwarded:
June 9, 1944

Fred. L. Peacock
Fred. L. Peacock
Chief, Air Photographic Party No. 2

GEOGRAPHIC NAMES

Undisputed

- Johnsons Landing •
- Low Point •
- Wards Creek •

Names followed by • are
approved. 9/3/48
L. Heck

GEOGRAPHIC NAMES

Disputed

* Chippookes Creek

(Chippoak Creek
Chippokes Creek)

Upper Chippokes Creek. (recent U.S. B.-N. Decision)

* This spelling is in accordance with
the 1942 field inspection data.

Chickahominy River

Upper Chippokes Creek - Wards 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-8085.

Number of Temporary Hydrographic Stations	32
Number of Recoverable Topographic Stations	<u>4</u>
Total number of stations	36

Listed by: _____ Checked by: _____

- 353. Offshore one of a clump of three cypress trees in water near marsh line.
- 354. Bushy cypress in edge of water on E. side of Chippokes Creek.
- 355. Lone cypress in water off S. shore.
- 356. N. W. corner of old dock just west of a long line of piling on S. side.
- 357. "Lone Cypress - Near Edge of Woods." Lone cypress (35') on N. bank of creek, about 20 meters E. of woods and just E. of the entrance to a small stream (Recoverable Topographic Station).
- 358. Brush point at H.W.L.
- 359. Point of grass on N. side of entrance to stream on E. side.
- 360. Mud point on N. side of stream on E. side of creek.
- 361. Center of end of line of piling on W. side.
- 362. End of line of piling on W. side.
- 363. Mud point on S.E. side of stream entrance on E. side of creek.
- 364. Point of grass on N. side of stream entrance to west.
- 365. S. end of sunken barge, only one side of barge shows.
- 366. N. end of patch of marsh grass on E. side.
- 367. Lone cypress on W. side just south of small stream.
- 368. "Tallest Cypress Near Point". Tallest cypress (35') near prominent point of marsh on N. bank of creek. (Recoverable Topographic Station)
- 369. Mud and grass point on N. side of entrance to stream on W. side of creek.
- 370. Point of mud bank on S. side of stream entrance to W.
- 371. "W. Gable Two Story White House". W. gable of two story white house with two brick chimneys, red roof and dormer windows; located on E. shore creek and about 430 meters E. of the marsh line. (Recoverable Topographic Station)

- 425. Tip of grass on S. side of stream entrance.
- 426. "Bushy Cypress" 50' bushy cypress on E. side of Wards Creek. (Recoverable Topographic Station)
- 427. Tip of grass and brush.
- 428. Tip of grass on W. side of entrance to stream.
- 429. Tip of grass on N.E. side of entrance to slough.
- 430. Tip of brush.
- 431. Tip of grass on N.E. side of entrance to small stream.
- 432. Tip of grass on E. side of small stream entrance.
- 433. Tip of grass on S. side of stream entrance.
- 434. Tip of grass on S. side of entrance to slough.
- 435. Tip of grass.
- 436. Tip of grass island, S. end.
- 437. Overhanging small birch on point.
- 438. Tip of grass on S.W. side of entrance to small stream.
- 439. 2' lone stump.
- 440. Tip of grass and mud.
- 441. Tip of grass on S.W. side of break in grass line.

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DIVISION OF PHOTOGRAMMETRY
Review Report of
Shoreline Map Manuscript T-8085

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

35. HYDROGRAPHIC CONTROL:

A list of the hydrographic stations falling on the map area was made during review from the numbers and descriptions on the manuscript.

42. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

No hydrographic survey has been made since 1910.

43. COMPARISON WITH PREVIOUS TOPOGRAPHIC SURVEYS

T-1391b 1.20000 1875 (with contours)

This map supersedes T-1391b for nautical charting purposes.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

U.S.G.S. Disputanta 1/62500 ed 1919, rep 1944

Bluffs along ^{Upper} Chipponkes Creek are shown higher on the quadrangle than on the map manuscript.

T-8085 supersedes the quadrangle in their common area only with respect to shoreline and bordering marsh data.

46. APPLICATION TO CHARTS

This map manuscript has not been applied to chart 530, 1/40000. 1940 as of the date of this review.

Reviewed by:

Under the direction of

Lena T. Stevens
Lena T. Stevens, 2 Sept. 1948

S. V. Griffith
Chief, Review Section & h.m.
Div. of Photogrammetry

APPROVED BY:

B. G. Jones 2/50
Technical Assistant to the
Chief, Div. of Photogrammetry

H. C. Edmonston
Chief, Nautical Charts Branch
Division of Charts

O. S. Reading
Chief, Div. of Photogrammetry

K. G. Crosby
Acting Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. 8085

Record of Application to Charts

[illegible]

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.