

8082

Diag'd. on Diag. Ch. No. 78-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Air Photo.
(Shoreline)

Field No. CS-283 Office No. T-8082

LOCALITY

State Virginia

General locality James River

Chickahominy River in the vicinity

Locality of Winns Landing & Oldhouse
Landing

1941-'43

CHIEF OF PARTY

F.L.Peacock

LIBRARY & ARCHIVES

DATE _____

8082

DATA RECORD

Form T-1

T-8082

Quadrangle (II); Charles City, Va. (U.S.G.S.)
15' Quadrangle

Project No. (II); C.S. 283
SHORELINE

Field Office: Air Photographic Party #2 Chief of Party: Fred. L. Peacock

Compilation Office:

Chief of Party:

Fred. L. Peacock

Baltimore Photogrammetric Office

Instructions dated (II III);

Copy filed in *Division of* Descriptive

Report No. ~~T~~ *(VI)*

March 26, 1942-July 15, 1942, Sept. 30, 1942
Nov. 14, 1942, and Nov. 24, 1942

Completed survey received in office; *31 Oct. 1944*

Reported to Nautical Chart Section;

Reviewed; *14 Sept. 1948*

Applied to chart No.

Date;

Redrafting Completed;

Registered; *2 June 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); MINTREE, 1934, *r.* 1943

Lat.: 37° 28' 08.042"

Long.: 77° 02' 00.480"

Adjusted

247.9 (1601.8) meters

11.8 (1462.6) meters ~~Unadjusted~~

State Plane Coordinates (VI); *Virginia South State Grid*

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	Eastern Standard <u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
7711-7714	11/26/41	12:35 p.m.	1:10,000	1.3' above M.L.W.
7756-7759	11/25/41	1:50 P.M.	1:10,000	0.2' above M.L.W.

Tide from (III): Predicted Tables, Reference Station Hampton Roads with correction for Windsor Shades, Chickahominy River, Va.

Mean Range: 2.4'

Spring Range: 2.8'

Camera: (Kind or source) U.S.C.&G.S. 9 lens camera (focal length $8\frac{1}{4}$ "
All negatives on file in the Washington Office

Field Inspection by: Lieut. Comdr. Henry O. Fortin . date: February 1943

Field Edit by: *None*

date:

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

Date of photographs supplemented by field inspection obtained in 1943. Seasons field inspection reports previously submitted.

Projection and Grids ruled by (III) P.J.H.
(Washington Office)

date: 9-27-44

" " " checked by: B.R.C. & J.T.
(Washington Office)

date: 9-28-44

Control plotted by: Ruth E. Rudolph

date: 9-30-44

Control checked by: James L. Harris

date: 10-2-44

Radial Plot by: J. E. Deal, Jr. & A. C. Rauck, Jr.

date: 10-13-44

Detailed by: Mildred M. Trautman

date: 10-13-to 10/25/44

Reviewed in compilation office by: Henry P. Eichert

date: 10/25/ to 10/26/44

Elevations on Field Edit Sheet
checked by: *Not applicable*

date:

STATISTICS (III)

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

Shoreline (More than 200 meters to opposite shore): none

Shoreline (Less than 200 meters to opposite shore): $4\frac{1}{2}$ miles
(Measured along approximately center line of stream only)

Number of Recoverable Topographic Stations established: 4
(Including one (1) bench mark)

Number of Temporary Hydrographic Stations located by radial plot: 9

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- 8082

T-8082, a shoreline survey, belongs to a series of maps originally intended as planimetric surveys.

The original instructions of March 26, 1942 called for complete field inspection of shoreline and inland details necessary to make planimetric maps, except for the area completed by six Geological surveys between Hopewell and Richmond. Field inspection in the latter area included shoreline, hydrographic signals, and recovery of horizontal control.

However, one of the areas later assigned to and compiled by this Bureau in the War Mapping Program included practically all of the area of CS-283. Because this new 1:20,000 scale mapping was to cover the entire area from Richmond to the mouth of the James River, this Bureau did not compile nor publish complete planimetric maps of the area. Maps at 1:10,000 scale showing only the shoreline and signals for the control of hydrographic parties were subsequently compiled.

K.M.
K. N. Maki
26 May 1949

26. CONTROL:

This map Drawing includes the shoreline and adjacent planimetry of that portion of Chickahominy River, Va. between Winns Landing and Jordans.

There are no United States Coast & Geodetic Survey horizontal control stations falling within the limits of this Map Drawing.

The following U. S. Geological Survey horizontal control stations fall within the limits of this Map Drawing:

- U. S. GEOLOGICAL SURVEY TEMPORARY TRAVERSE STATIONS
- * ROAD FORKS AT ABANDONED SCHOOLHOUSE, IN LINE WITH ROAD WEST,
CENTER OF ROAD
 - ✓ ADAMS STORE 0.5 MILES SOUTHWEST OF CENTER OF ROAD FORKS *outside map limits*
 - ✓ MILEPOST NO. 60 WESTBOUND TRACK
 - ✓ CHICKAHOMINY RIVER, SOUTH END OF BRIDGE, ^{Tower} OVER *(only sta. within delineated area)*
 - * Y ROAD EAST
 - * SECOND CLASS ROAD EAST

The following stations fall just outside the limits of this Map Drawing:

- U.S. GEOLOGICAL SURVEY MONUMENTED TRAVERSE STATIONS
- P.T. S. NO. 54, 1916
- U. S. GEOLOGICAL SURVEY TEMPORARY TRAVERSE STATIONS
- PROVIDENCE FORGE, T-ROAD EAST, JUST EAST OF OLD MILL
- PROVIDENCE FORGE, ROAD CROSSING AT EAST END OF STATION, EAST
BOUND TRACK
- LANE LEADING WEST TO HOUSE
- RUTHVILLE, CENTER OF CROSSROADS

27. The above horizontal control stations were used to establish photograph centers, secondary control points, and detail points.

27. RADIAL PLOT:

The radial plot for this Map Drawing is a 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 will be forwarded to the Washington Office in the near future.

28. DETAILING:

The Mean High-Water Line, Marsh Line, and adjacent planimetric detail of that portion of the Chickahominy River 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 CS 283.

Data pertaining to the Mean High-Water Line and Marsh Line furnished the Compilation Office by the Field Inspection Unit was verified with the aid of the stereoscope and then transferred to the nine lens office photographs.

* The temporary U. S. G. S. traverse stations that are unmarked have been deleted from the manuscript. Traverse stations that are recoverable fixed features have been retained. K.H.M. 6-6-49

28. DETAILING: (Continued)

Portions of the Mean High-Water Line and Marsh Line which could not be definitely determined by the Field Inspection Unit and which were shown on the field photographs by a red dashed line for the Mean High-Water Line or a green dashed line for the Marsh Line were examined under the stereoscope and in all cases could be delineated.

Minor drainage not visible on the photographs was not delineated by the Field Inspection Unit. By careful stereoscopic examination of the photographs, all minor drainage not visible on the photographs flowing into that portion of the Chickahominy River within the limits of this Map Drawing was delineated. It has been shown on the Map Drawing with a light-weight dashed black acid ink line. All minor drainage visible on the photographs has been shown with a light-weight full black acid ink line.

No road classification was included in the field inspection data. They were classified according to the Compiler's interpretation after comparison with other topographic quadrangles.

Tree areas were not classified by the Field Inspection Unit. They have been detailed and shown with the conventional symbols according to the Compiler's interpretation of the office photographs after comparison with similar classified areas.

All buildings adjacent to the shoreline have been detailed on the Map Drawing.

The number of nine lens office photographs covering the area of the Map Drawing was sufficient for detailing and the scale of the photographs was in satisfactory agreement with the scale of the Map Drawing Projection. The spacing of the photographs provided center chamber coverage for the portion of the Map Drawing the Compilation Office had been instructed to detail.

29. SUPPLEMENTAL DATA:

A copy of the U. S. Geological Survey Charles City, Va. 15' quadrangle, edition of 1918, reprinted 1931, scale 1:62,500 was furnished by the Field Inspection Unit.

30. MEAN HIGH-WATER LINE:

The conventional full, heavy 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 the indication of low wet land at Mean High Water and is not to be considered the Mean High-Water Line. It is referred to in 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 Unit or visible on the nine lens photographs.

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

32. DETAILS OFFSHORE FROM THE MEAN HIGH-WATER LINE:

The Field Inspection Unit indicated logs in the water along both shores of the Chickahominy River near Winns Landing. Further up the river a tree was indicated in the water. Notes pertaining to these details have been lettered on the Map Drawing.

33. WHARVES AND SHORELINE STRUCTURES :

All piers and a catwalk indicated by the Field Inspection Unit have been detailed on the Map Drawing accompanied by pertinent notes.

34. LANDMARKS AND AIDS TO NAVIGATION:

No objects were recommended for charting as landmarks. There are no fixed aids to navigation within the area of this Map Drawing.

35. HYDROGRAPHIC CONTROL:

The Compilation Office was furnished the identification of nine (9) temporary hydrographic signals and four (4) recoverable topographic stations. These stations were identified on the 1:10,000 field photographs by number and their descriptions listed in a field sketch book (form 274) by corresponding numbers. These stations were transferred to the office photographs and radially plotted on the Map Drawing. The number and description of each of the stations have been lettered on the Map Drawing near the station to which they refer.

Form 524 is being submitted for the four (4) recoverable topographic stations, namely:

No 137, LARGE CYPRESS TREE ON POINT
141A, ONE STORY COTTAGE
B.M. V-277
FIRE TOWER *(outside of delineated area)*

*List attached
hereto.*

36. LANDING FIELDS AND AERONAUTICAL AIDS:

The Field Inspection Unit has recommended the recoverable topographic station, FIRE TOWER, to be charted as an aeronautical aid. Form 567 is being submitted for this aeronautical aid.

*T-8082 is the
northernmost map
covering the Chickahominy R.
therefore there is no slot
to the N. or to the W. and
no delineation junction
to the south. The
only junction with map
detail is with T-8081
to the south
KTA*

37. JUNCTIONS:

To the north - no contemporary survey

To the east - satisfactory junction has been made with Map Drawing for Survey No. T-8081

To the south - there is no junction of shoreline and adjacent planimetric detail with Map Drawing for Survey No. T-8083

To the west - there is no junction of shoreline and adjacent planimetric detail with Map Drawing for Survey No. ~~T-8088~~ *no such map in this area*

38. GEOGRAPHIC NAMES:

According to instructions, no geographic names investigation was made for the Area of Survey No. T-8082, by the Field Inspection Unit.

Geographic names as they appear on the Map Drawing were taken from the U. S. Coast and Geodetic Chart No. 530 dated March 6, 1944 and U. S. Geological Survey 15' Quadrangle Charles City, Va.

A list of geographic names, believed to be undisputed, is attached to this report. *Approved by Geog. Names Section, Div. of Charts.*

39. HORIZONTAL ACCURACY:

The probable error in the relative 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 of Map Drawing for Survey No. T-8082 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 U. S. Geological Survey 15' Quadrangle Charles City, Va. Common planimetric detail appeared to be in generally good agreement.

45. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with U. S. Coast and Geodetic Chart No. 530 scale 1:40,000 by use of the vertical projector. The shoreline was in good general agreement except for minor indentations and protrusions occurring in the Marsh Line. However, in the vicinity of Jordans the course of the

45. COMPARISON WITH NAUTICAL CHARTS: (Continued)

Chickahominy River as shown on the Map Drawing differs from that as shown on the chart. This entire area is swamp, and dense trees prevent positive identification of the river in this area. The stereoscope was used to aid in this delineation and it is believed that the course of the Chickahominy River shown on the Map Drawing in the vicinity of Jordans is correct.

Respectfully submitted
October 28, 1944

Mildred M. Trautman
Mildred M. Trautman
Ass't. Photogrammetric Aid

Compilation and Descriptive
Report Reviewed by:

Henry P. Eichert
Henry P. Eichert
Jr. Photogrammetric Engr.

Compilation of Map Drawing
Supervised by:

J. Edward Deal, Jr.
J. Edward Deal, Jr.
Ass't. Photogrammetric Engr.

Approved and Forwarded
October 31, 1944.

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

GEOGRAPHIC NAMES

Undisputed

- Chickahominy River
- Holly Landing
- Jordans
- Oldhouse Landing
- Winns Landing
- Virginia*

* = BGN Decision

• = Approved name.
9-16-48,
A. J. W.

JAMES RIVER, VIRGINIA
Chickahominy River: Vicinity of Winns Landing and Oldhouse Landing
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 No. T-8082.

Number of temporary Hydrographic Stations	9
Number of Recoverable Topographic Stations	<u>3</u>
Total Number of Stations	12

Listed by:

Checked by:

Mildred Troutman

Henry P. Eichert

No.

- 134 . Northwest corner of pier on South side in front of white cottage with red roof on 15' bank.
- 135 . Point of grass on East side of entrance and small bight on North side of river.
- 136 . Tuft of grass on low point on East side of island on West side of channel.
- 137 . Large cypress tree on point on Northeast side of entrance to bight on west side.
(Recoverable Topographic Station)
- 138 . Northeast corner of pier in front of cottage on South side.
- 139 . Easterly of two tufts of grass off point on North side.
- 140 . Center of clump of alders in middle of river.
- 141 . Southeast corner of pier on West side.
- 141-A . East gable of house about 30 meters west of pier.
(Recoverable Topographic Station)
- 147 ~~Tip of grass on Northeast side of entrance on creek~~
- 149 . Point of grass on North side of entrance to bight on West side of river. Bight is Northeast of larger bight.
- 147 . Tip of grass on Northeast side of entrance to creek on Northwest side of river.

B.M. V-277-(Recoverable Topographic Station)

Division of Photogrammetry
Review Report of
Shoreline Map Manuscript T-8082

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

43 Comparison with Previous Topographic Surveys

T-1337 b	1:20,000	1874-5
T-2729 a	1:20,000	1874-5

This survey supersedes the previous surveys for all details in the common areas, excepting contours.

46 Application to Nautical Charts

This map manuscript has not been applied to chart No. 530 as of the date of this review.

Reviewed by:

Under the direction of:

Lena T. Stevens
Lena T. Stevens
14 September 1948

A. V. Griffith
Chief, Review Section K.H.M.

Approved by:

Tech. Asst. to the Chief
Division of Photogrammetry

H. C. Edmundson
Chief, Nautical Chart Branch
Division of Charts

K. T. Adams
Chief, Div. of Photogrammetry

W. M. Scaife
Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. 8082

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.