

Diag. Cht. No. 78-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Air Photographic (Shoreline)  Field No. Office No. T-8087
LOCALITY
StateVirginia
General locality James River
Locality Herring Creek - Eppes Island
1941-'43
CHIEF OF PARTY
F.L. Peacock
LIBRARY & ARCHIVES
DATE

B-1870-1 (I

#### DATA RECORD

**7-**8087

Quadrangle (II):

Charles City, Virginia, (151) U.S.C.S.

Project No. (II):

CS-283

Field Office:

Air Photographic Party No. 2 Baltimore, Maryland

Compilation Office:

Air Photographic Party No. 2

Baltimore, Maryland Instructions dated (II III): March 26, 1942 Supplemental Instructions dated:

July 15, Sept. 30, Nov. 14, 1942

Chief of Party:

L. W. Swanson & F. B. Lewey Fred. L. Poacock H. O. Fortin

Chief of Party:

Fred. L. Peacock L. Peacock Div. of Photogrammetry Copy filed in Danciptive

Report No. T-

Completed survey received in office: 3-14-44

Reported to Nautical Chart Sections Mar 1944

Reviewed: 21 Marth

Applied to chart No. 530 Date: 7/15/44

Redrafting Completed: 12-14-49

Registered: 6 Mar 50

Published:

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): None

Geographic Datum (III):

North American 1927

Reference Station (III):

Cardine, 1910, r. 1942

Datum Plane (III):

Mean Soa Level -High Water

Lato: Jone 19' 30.190" (930.7 m.) Longo: 77° 12' 32.526" 800.8 manages ed

State Plane Coordinates (VI): Virginia South Zone

Dx = 2,375,369.92 ft.

Y = 363, 632.44 ft.

Military Grid Zone (VI)

### PHOTOGRAPHS (III)

(Unmounted)

Number	<u>Date</u>	Time	<u>Scale</u>	Stage of Tide
7547 - 7552, Incl. 7626 & 7627 7642 - 7644, Incl. 7648 - 7653, Incl.	11/25/lµ 11/25/lµ 11/25/lµ 11/25/lµ	11:34; A.M. 1:12 P.M. 1:33 P.M. 1:33 P.M.	1:10,000 1:10,000 1:10,000 1:10,000	1.0' abv. M.L.W. 0.2' abv. M.L.W. 0.1' above M.L.W. 0.1' abv. M.L.W.
13032-13033	12/31/42	3:36	1:20,000	0.2' above MLW

Tide from (III): Tide Tables - Atlantic Ocean, Reference Station - Hampton Roads, Va. Mean of Sub-Stations - Harrison's Landing and Jordan Point, Virginia.

Mean Range: 2.6' Spring Range: -3.0' 3.1'

Camera: (Kind or source) U. S. Coast & Geodetic Survey nine lens camera, (focal length  $8\frac{1}{4}$ "). All negatives are on file in the Washington Office.

Field Inspection by: Lieut. E. B. Lewey & Lieut. Henry O. Fortin

date: Summer, 1942

Season, 1943

The Season Reports of Lieutenants E. B. Lewey & Henry O. Fortin have been

Field Edit by: previously submitted.

date:

None

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

Photographs taken on: November 25, 1941

Supplemented by the field inspection data

Projection and Grids ruled by (III) B.R	.C. & F.L.T. date: 10	-6-43
" " checked by: B.R	.c. date: 10	-7-43
Control plotted by: Ada May Hobine	date: 10	-22-43
Control checked by: Walter B. Schmidt	date: 10	-23-43
Radial Plot by: Walter E. Schmidt	date: 11	-43
Detailed by: Florence M. Hammond (Shoreline and Rough Draf		-24-43 to 1-15-44,
Reviewed in compilation office by:  Michael G. Misulia	Ma	rch, 1944

Elevations on Field Edit Sheet checked by: Not applicable

date:

## STATISTICS (III)

Land Area (Sq. Statute Miles): 1

Shoreline (More than 200 meters to opposite shore):  $9\frac{1}{2}$  statute miles

Shoreline (Less than 200 meters to opposite shore):  $10\frac{1}{2}$  statute miles

Number of Recoverable Topographic Stations established:  $\frac{1}{4}$ Number of Temporary Hydrographic Stations located by radial plot: 52

Leveling (to control contours) - miles:

Roman numberals 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 Tallar are contained in the "Report on Field Inspection of Air Photographs, James Riv er and Tributaries, Virginia" by Henry O. Fortin, dated April 20, 1943.
Filed in Division of Photogramms gry, General Files

26 CONTROL:

The details concerning the horizontal control for the area of Map Drawing, Survey No. T-8087, have been reported in Appendix B of the Descriptive Report for Map Drawing, Survey No. T-8083, previously submitted. It is deemed unnecessary to repeat them in this report.

27 RADIAL PLOT:

The facts concerning the Radial Plot for Map Drawing, Survey No. T-8087, have been fully brought out in Appendices A and B of the Descriptive Report for Survey No. T-8083, previously submitted.

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## 28 DETAILING (Cont'd.)

information obtained from stereoscopic examination of the office photographs. Kimages Creek, a pond at approximately Latitude 37° 21' 30" and Longitude 77° 14' 30", and the upper reachs of Herring Creek were not field inspected. The detail of these features, as shown on the Map Drawing, is in accordance with the office interpretation of the photographs.

A list of abbreviations accompanied by explanatory notes has been shown on the Map Drawing to assist in the interpretation of the abbreviations used.

## 30 MEAN HIGH-WATER LINE:

In general, along the Mean High-Water Line on both shores of that portion of James River included within the detail limits of the Map Drawing, are tree covered dirt bluffs ranging in height from eight to sixty feet. The bluffs have been symbolized and their heights have been shown by notes on the Map Drawing.

The outer limits of marsh areas bordering the Mean High-water line, as shown on the Map Drawing, is not to be considered the Mean High-Water Line but is only an indication of the limits of low wet land which were visible on the photographs and which were detailed therefrom.

Where either the Mean High-Water Line or outer limits of bordering marsh areas were indefinite as recorded in the field inspection data, they have been shown on the Map Drawing with dashed heavy-weight and dashed light-weight black acid ink lines respectively accompanied by explanatory notes.

### 31 LOW-WATER AND SHOAL LINES:

The approximate outer limits of shoal areas bordering the Mean High-Water Line have been detailed in accordance with office interpretation of the photographs, and noted as "Shoal" on the Map Drawing. Grass-in-water areas have also been shown, and have been detailed in accordance with field inspection data.

## 32 DETAILS OFFSHORE FROM MEAN HIGH-WATER LINE:

The positions of several offshore wrecks have been determined by radial intersection and their shapes have been detailed and shown on the Map Drawing accompanied by descriptive notes.

## 32 DETAILS OFFSHORE FROM MEAN HIGH-WATER LINE (Cont'd.)

Five floating aids (buoys), the positions of which have been radially plotted, have been shown on the Map Drawing with the conventional symbols.

The positions of all the duck blinds identified and recommended by the Field Inspection Party as temporary hydrographic stations, except those determined by triangulation, have been radially plotted and shown on the Map Prawing with  $2\frac{1}{2}$  m.m. black acid ink circles. In addition to these, the compiler of the Map Prawing radially plotted a position of an object which was believed to be a duck blind, the shape of which has been detailed and shown on the Map Prawing accompanied by the note "Believed to be a duck blind".

The approximate location of other offshore features such as stake and piling areas which were not visible on any of the photographs were detailed in accordance with the field inspection data, and were shown on the Map Drawing with dashed light-weight black acid ink lines accompanied by descriptive notes. It is recommended that the operating hydrographic parties determine the correct position of such features.

## 33 WHARVES AND SHORELINE STRUCTURES:

All wharves, piers, ruins of piers, fences, etc., have been shown on the Map Drawing accompanied by descriptive notes.

#### 34 LANDMARKS, FIXED AIDS TO NAVIGATION, AND AERONAUTICAL AIDS:

There were no new landmarks, fixed aids to navigations, or aero-nautical aids recommended for the area of this Map Drawing. The landmark "WATERTOWER" appearing on Chart No. 530 has been noted as "gone" by the 1942 Field Inspection Sub-Party. Form 567 has been submitted for its deletion. The existence of other previously charged landmarks was verified by the 1942 Field Inspection Sub-Party.

#### 35 HYDROGRAPHIC CONTROL:

The Field Inspection Sub-Party recommended fifty-two (52) temporary hydrographic stations, and four (4) Recoverable Topographic Stations within the detail limits of the Map Drawing. The positions of forty-seven (47) of the temporary hydrographic stations, and the four (4) Recoverable To pographic Stations have been radially plotted and shown on the Map Drawing with 2 m.m. black acid ink circles. The remaining five (5) temporary hydrographic stations are also U. S. Coast and Geodetic Survey Triangulation Intersection Stations, the positions of which have been shown on the Map Drawing with the triangulation symbol accompanied by the name of the Station.

To Reviewer: Mr. Jones requests that the descriptions of H&T stations be inked on the monoscript so as to be consistent with other sheets. The descriptions are dound in the sketch books on proj 283. D&D. 2-21-46 This has been done IR

## 35 HYDROGRAPHIC CONTROL (Cont'd.)

Form 524 has been submitted for each of the following four (4)
Recoverable Topographic Stations:
Filed in Division of Photogrammetry General Files.

No.	Name
532 593	Dolphin "Posted" Sign on tree
468	S.W. Chy. on brick manor dark roof
554	Small double tree

## 37 JUNCTIONS:

The junction of shoreline and adjacent planimetric detail with Map Drawing Survey No. T-8083 to the east is in agreement.

The compilations for Map Drawings, Surveys Nos. T-8088 - to the North; T-8086 - to the South; and T-8090 to the West have not been started. The junctions will be discussed in the respective Descriptive Reports of the Map Drawings just mentioned. Compilations completed and all junctions werified.

#### 38 RECOMMENDATIONS FOR FUTURE SURVEYS:

It is believed that Map Drawing Survey No. T-8087 is complete in all details of importance for charting, and, no future surveys are recommended except in the areas where the position of the Mean High-Water Line could not be accurately determined by air photo-compilation as previously discussed in this report.

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

#### 39 GEORGRAPHIC NAMES:

Only a partial investigation of the geographic names for the area of the Map Drawing was made by the Field Inspection Sub-Parties. The field inspection data was recorded in a copy of the "U. S. Coast Pilot". The geographic names shown on the Map Drawing are in accordance with the data obtained from the investigation, and from other best known available sources. The geographic names, disputed and undisputed, have been alphabetically compiled in two lists and submitted herein.

## 山 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Charles City, Virginia, (15') U.S.G.S., Scale 1:62,500, Edition of 1918, Reprinted 1931.

Since the scale difference between the Map Drawing and the quadrangle was very large, small planimetric details could not readily be compared. However, the following disagreements were apparent:

In the vicinity of the mouth of Kimages Creek a marsh area appears on the quadrangle. However, a lake has now been formed and is shown as such on the Map Drawing.

A marsh area appearing on the quadrangle at approximately Latitude 47° 21' 30" and Longitude 77° 14' 30" is shown on the Map Drawing as a pond.

Kimages Wharf appearing on the quadrangle is now in ruins.

Ferry Slips as shown on the Map Drawing in the vicinities of Jordan and Harrison Points do not appear on the quadrangle.

A marsh area as shown on the Map Drawing at approximately one mile due east of Jordan Point does not appear on the quadrangle.

#### 45 COMPARISON WITH NAUTICAL CHARTS:

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

Comparisons of small planimetric detail could not readily be made between the Map Drawing and the above-mentioned chart because of the large difference in scale. However, the following differences were apparent:

In the vicinity of the mouth of Kimages Creek, a marsh area appears on the Chart. However, a lake has now been formed and is shown as such on the Map Drawing.

In general, the courses of small streams draining into Herring Creek, as shown on the Map Drawing. are in disagreement with those appearing on

## 45 COMPARISON WITH NAUTICAL CHARTS (Cont.)

Creeks as shown on the Map Drawing, do not appear on the chart.

Three wrecks as shown on the Map  $^{\mathrm{D}}\mathrm{rawing}$  do not appear on the chart.

Ferry Slips, as shown on the Map Drawing, in the vicinities of Jordan and Harrison Points, do not appear on the chart.

Chart No. 531, scale 1:20,000, Published August 1940 - corrected to November 15, 1941.

The following differences were apparent:

A small marsh area appearing on the chart at approximately Latitude  $37^{\circ}$  21' 30'' and Longitude  $77^{\circ}$  14' 30'' is now a pond as shown on the Map Drawing.

Two wrecks approximately one-half mile due west of Jordan Point, as shown on the Map Drawing, do not appear on the chart.

A Ferry Slip at Jordan Point, as detailed on the Map Drawing, does not appear on the chart.

In general, the planimetry appearing on the chart is in disagreement with that as shown on the Map Drawing. It is recommended that the planimetry shown on the Map Drawing supersede that as appears in the corresponding area on the chart.

Respectfully submitted: March 11, 1944

Florence M. Hammond
Photogrammetric Aid

Compilation & Descriptive Report Reviewed By:

Michael G. Misulia Jr. Topographic Engineer

Supervised By:

Walter E. Schmidt

Asst. Photogrammetric Eng.

Approved and Forwarded: March 14, 1944

Hed. R. Racrok

Chief, Air Photographic Party No. 7

#### LIST OF GEOGRAPHIC NAMES

## (Undisputed)

Bucklers Point (off limits)

- Eppes Creek

- Eppes Island

- Eppes Island

- Kimages Creek

- Ducking Stool Point (off limits)

- Harrison Point

- Harrisons Landing

- Rolands Mill

- Haxall

- Haxall

- Herring Creek

- Va Highway No. 5

(disputed)

Berkley

Berkley

Berkeley\*(USB b.N decision)

Harden's Wharf - Harden's Landing - Haxall Landing

Turkey I. Bend

Turkey Bend

Hardens Wharf (at Haxall, as on Intest

Churt 531)

\* = decision of

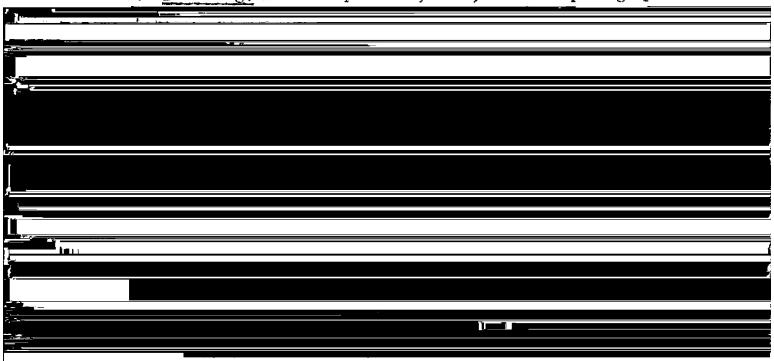
Names preceded by a are approved . 4-16-49

26. Control: The horizontal control falling within the limits of this survey are:

Berkley House, West Chimney, 1871 (this is also J.C.A. (USE)) Eppes, 1910 " J.C.B. (USE)) Jordan, 1910 ( Major, 1910 # 11 24-44-سبعث J.C.C. (USE)) cardine, 1910( Harrison 2, 1942 Major 2, 1942 Water Tank, white with red top, 1942 Jordan Point, Rear Range, (Light), 1942 Richmond Y.M.C.A. Bldg. South Chimney, 1942 Harrison's Landing, Fishing Shack, West Gable, 1942 Harrison (USE), 1942 JCE (USE) JOF (USE) falls on adjoining sheet T-8086. JR Wayside 4 ft. Oak true, on south edge of road, 35 feet northwest of Bimm's store, 1942 (USGS) Lane south, 12 feet northwest to cedar tree at west edge of road, r.1942 (U.S.65).

Duck Blind No. 12, 1942 was considered less than third order accuracy by Geodesy so a circle has been substituted for the triangle symbol.

28. Detailing:-Since compilation, 1:20,000 scale photographs



in making corrections to the shoreline although field inspection was confined to the older 1:10,000 photographs. The boundary between swamp and marsh areas has been shown with a dashed red line.

34. Landmarks and Aids to Navigation:-The name given to the fixed light was taken from the 1945 Light List. See paragraph

Reviewed by:

Jack Ain -- 21 March 1946

Approved by:

Chief, Review Section Law.
Division of Photogrammetry

Chief Div. of Photogrammetry

mief, Mautical Chart Branch Division of Charts

Chief, Div. of Coastal Surveys ac

## NAUTICAL CHARTS BRANCH

## SURVEY NO. 8087

# Record of Application to Charts

			- <del></del>
DATE	CHART	CARTOGRAPHER	REMARKS
1-18-54	530	Jack Allen	Rater Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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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.