# DESCRIPTIVE REPORT

**Type of Survey:** Planimetric Air Photographic

**(Shoreline)**

<table>
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<th>Field No.</th>
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## LOCALITY

- **State:** Virginia
- **General locality:** James River
- **Locality:** Bucklers Point - Jordan Point

**1941-'43**

**CHIEF OF PARTY**

H.O. Fortin, Chief of Party

F.L. Peacock, Balto. Photo. Office

## LIBRARY & ARCHIVES

**DATE**

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DATA RECORD

Form T-1

T- 8086


Field Office:
Air Photographic Party No. 2

Compilation Office:
Baltimore Photogrammetric Office

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

Completed survey received in office: 7-14-44

Reported to Nautical Chart Section: 7-21-44

Reviewed: 12 Mar 44
Applied to chart No. 531 (Partially) Date: 22 Nov 44

Redrafting Completed: 12-28-44

Registered: 2 Feb 50

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): None

Geographic Datum (III): N. A. 1927

Datum Plane (III): Mean Sea Level

Reference Station (III): RIVER 2, 1942

Lat.: 37° 17' 06.131" (189.0m) Long.: 77° 11' 18.545" (456.8m)

Adjusted Unadjusted

State Plane Coordinates (VI): Virginia South Zone

X = 2,381,547.28 feet
Y = 349,146.64 feet

Military Grid Zone (VI)
PHOTOGRAPHS (III)

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Tide from (III): Predicted tables for Hampton Rds., Va., corrected to Harrisons Landing

Mean Range: 2.6'  
Spring Range: 3.1'

Camera: (Kind or source) U. S. C. & G. S. nine lens camera (focal length 8 1/4")
All negatives are on file in Washington Office

Field Inspection by: Lieut. Comdr. E. B. Lewey  
Field Inspection by: Lieut. Comdr. Henry C. Fortin  
    date: Summer 1942  
    date: Season 1943  
    date: APRIL

Field Edit by:  
    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) B.R.C. - F.L.T.  
    date: 10/6/43
Washington Office
"    "    " checked by: B.R.C.  
    date: 10/7/43
Washington Office

Control plotted by: Walter E. Schmidt  
    date: 10/21/43
Control checked by: Ada May Hobine  
    date: 10/22/43

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

Detailed by: M. E. Herzog (shoreline - rough draft)  
    date: 6/6/44
Reviewed in compilation office by: A. C. Rauck, Jr.  
    date: 7/11/44
    date: 7/4/44
Elevations on Field Edit Sheet  
checked by: None  
    date:
Statistics (III)

Land Area (Sq. Statute Miles): 3

Shoreline (More than 200 meters to opposite shore): 15 Statute miles

Shoreline (Less than 200 meters to opposite shore): 10 Statute miles

Number of Recoverable Topographic Stations established: 11

Number of Temporary Hydrographic Stations located by radial plot: 69

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 T8086

T8086, scale 1:10,000, is one of 40 shoreline surveys in Project CS-283 along the James River, Virginia.

Project CS-283 was originally planned as a planimetric mapping project but was limited to shoreline surveys only after War Mapping Project CS-289, covering practically all the James River, was undertaken.

Topographic Quadrangle, T8321 (Project CS-289) completely covers T8086. The former was compiled in 1946 from 1:20,000 scale photographs taken in 1942; in contrast with T8086, compiled in 1944-45 from 1:10,000 scale photographs taken in 1941.
Field Inspection

Field inspection data for the area of [FOY] are contained in the "Report on Field Inspection of Air Photographs, James River and Tributaries, Virginia" by Henry O. Fortin, dated April 20, 1943. Filed in Division of Photogrammetry, General Files.
CONTROL:

In the descriptive report for Map Drawing, Survey No. T-8083, Appendix "B", is a tabulation of horizontal control used in the radial plots for Surveys Nos. T-8083 to T-8087, Inc. This descriptive report was submitted to the Washington Office on January 31, 1944. A detailed list of all the horizontal control used for Map Drawing, Survey No. T-8086, showing the degree of accuracy with which the horizontal control for this Map Drawing was held, is found in the above mentioned tabulation.

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

- WILSON, 1942
- IRVING, 1932, r.1942
- DUCK BLIND NO. 11, 1942
- INDIAN, 1910, r.1922
- JORDAN POINTE, FRONT RANGE LIGHT, 1938, r.1942
- DUCK BLIND NO. 4, 1942
- DUCK BLIND NO. 5, 1942
- DUCK BLIND NO. 6, 1942
- DUCK BLIND NO. 7, 1942
- DUCK BLIND NO. 8, 1942
- DUCK BLIND NO. 9, 1942
- DUCK BLIND NO. 10, 1942
- RIVER 2, 1942
- COGGINGS POINT, BLACK WATER TANK, 1942 (Landmark)
- J.C.G., 1942 (U.S.E.)
- TIN/WARE HOUSE, SOWGABLE, 1942
- SOUTHERNLY ON OLD DWELLING WEST OF WESTOVER, 1942
- DUCK BLIND NO. 1, 1942
- DUCK BLIND NO. 2, 1942
- DUCK BLIND NO. 3, 1942
- WESTOVER WATER TANK, 1938 (Tank removed since photographs were made)
- WESTOVER DOCK, FLAG ON PILE, 1942
- OVER 2, 1942
- MAY 2, 1942
- NAYCOCK RAIL HOUSE, EAST, 1942
- WESTOVER, OLD DWELLING WEST OF SOUTHERLY CHIMNEY, 1942
- Bailey Creek Light, 1938, r.1942 ← In 1985 Light Cat "James River 109"

* Less than third order
26 CONTROL: (Continued)

BUCK 2, 1942
ABANDONED BEACON NEAR STATION RUIN, 1942
COGGINS 2, 1942
143 A, CENTER OF CROSSROADS, (U.S.G.S.)
CENTER OF BRIDGE OVER RED POINT CREEK, 1942 (U.S.G.S.)

The following horizontal control stations fall just outside the limits of this Map Drawing. They are:

PACK, 2, 1942, r.1943
ATMOSPHERIC NITROGEN LIGHT, (no date)
HOPEWELL, HUMMEL-ROSS CO., TALLER STACK, NORTHERLY OF 2, 1932, r.1942
HOPEWELL, HUMMEL-ROSS CO., LOWER OF TWO STACKS, 1932, r.1942

EPPES, 1910, r.1942 (Same as J.C.A.) (U.S.E.)
MAJOR, 1910, r.1942
JORDAN POINT RANGE LIGHT, 1942
SOUTH CHIMNEY, RICHMOND Y.M.C.A. BLDG., 1942
CARDINE, 1910, r.1942 (Same as J.C.C.) (U.S.E.)

DUCK BLIND NO. 12, 1942
BERKLEY H.O. W. CHY., 1871, r.1938, 1942 (Same as HARRISON H.O. W. CHY.)
HARRISONS LANDING, FISHING SHACK, W. GABLE, 1942
ELEVATED WATER TANK NO. 1, 1938, r.1942
ELEVATED WATER TANK NO. 2, 1938, r.1942
THUE, 1938, r.1942
J.E.A. (No est. date) r.1942 (U.S.E.)
HOUSE ON BLUFF S. GABLE, 1938, r.1942

At many of the above horizontal control stations the field inspection unit established field inspection stations at well defined points near the horizontal control stations.

All of the above horizontal control stations were used for the establishment of photograph centers, secondary control points, detail points, recoverable topographic stations, and temporary hydrographic stations.

Also shown on the Map Drawing are many horizontal control stations, both inside and just outside the detail limits, which were recovered by the field inspection unit, but not identified
26 CONTROLS: (Continued)

on the photographs. They were not used as horizontal control. They are:

- Over, 1910, r.1942 (Same as J.C.H. (U.S.E.)
- VAN 2, 1942
- RIVER, 1910, r.1942
- WEST 2, 1942
- J.C.I. 1942, (U.S.E.)
- J.C.I.-A, 1942 (U.S.E.)
- J.C.K., 1942, (U.S.E.) < Falls on T-8087
- RUIN, 1938, r.1942 (Same as J.C.J.) (U.S.E.)
- MAJOR 2, 1942 < Falls on T-8087
- JORDAN, 1910, r.1942 (Same as J.C.B.) (U.S.E.) < Falls on T-8087
- WILCOX 2, 1932, r.1942 < Falls on T-8083
- J.C.H., 1942, (U.S.E.)
- J.C.H.-A, 1942, (U.S.E.) Falls outside of T-8086
- PEN, 1930, r.1938, 1942 (Same as J.C.L.) (U.S.E.)
- BRUNN, 1938, r.1942
- J.C.E., 1942 (U.S.E.)
- Herring Creek, Nwqg near Mouth, 1942

In addition there is shown on the Map Drawing, the United States Geological Survey geographic position (by a triangulation symbol) and the radial plotted position (by a small circle in red acid ink), of the United States Geological Survey Traverse Stations which could not be held during the running of the radial plot. They are:

CENTER OF ROAD FORKS, 1942
SECOND CLASS "T" ROAD, 1942
"T" ROAD EAST, 1942

These United States Geological Survey Traverse Stations were recovered and identified on the 1:10,000 field photographs by the field inspection unit.

27 RADIAL PLOT:

A complete discussion of the radial plot for Map Drawing, Survey No. T-8086 is contained in Appendices "A" and "B" of the descriptive report for Map Drawing, Survey No. T-8083, which was submitted to the Washington Office on January 31, 1944.
28 DETAILED:

The shoreline and immediate adjacent culture of that part of the James River and its tributaries, which lie within the limits of this Map Drawing, have been detailed.

Adequate field inspection data, to accomplish this detailing, were furnished the Compilation Office by the field inspection unit.

The number of nine lens photographs covering the area of this Map Drawing was sufficient for detailing. The scale of the photographs and of the Map Drawing were in good agreement.

Detail points have been shown on the reverse side of the Map Drawing with blue ink circles. Temporary hydrographic stations, landmarks, and recoverable topographic stations were radially plotted and have been shown on the Map Drawing with 2.5 mm circles in black acid ink. Their descriptions have been lettered adjacent to their respective circle.

All minor drainage adjacent to the shoreline has been delineated by stereoscopic examination of the nine lens office photographs.

All buildings, roads, fences, etc., which were visible on the photographs and which were immediately adjacent to the shoreline have been shown on the Map Drawing.

The only data furnished the Compilation Office on a small wooden bridge at the mouth of Bickers Creek is that it is in poor condition. No other bridges appear in the shoreline area of the Map Drawing.

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

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

MEAN HIGH-WATER LINE:

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 not considered to be the Mean High-Water Line, but is only an indication of the outer limits of low, wet land at Mean High-Water.

Tree covered dirt bluffs, adjacent to the Mean High-Water Line have been shown with the standard symbol and their heights noted on the Map Drawing. In some instances these tree covered dirt bluffs obscured the Mean High-Water Line due to layover. In these areas the Mean High-Water Line was delineated from office interpretation of the nine lens photographs. The field inspection unit designated these areas of the Mean High-Water Line as indefinite and appropriate notes calling attention to this fact, have been shown on the Map Drawing.

LOW-WATER AND SHOAL LINES:

No Mean Low-Water Line has been shown on this Map Drawing and none was indicated by field inspection data or was visible on the nine lens photographs. Numerous lily patches and grass-in-water areas have been detailed in accordance with field inspection data.

An office interpretation of an approximate shoal line, just west of Jordan Point, has been shown with a light-weight dash line in black acid ink.

DETAILS OFFSHORE FROM THE MEAN HIGH-WATER LINE:

Five wrecks, the positions of which have been radially plotted, have been shown on this Map Drawing. Four are just west of Jordan Point and one in Powell
32 DETAILS OFFSHORE FROM THE MEAN HIGH-WATER LINE: (Continued)

Creek. All of these wrecks bare at Mean High-Water.

Several duck blinds which are also either triangulation stations or hydrographic stations, are shown on the Map Drawing.

Areas in which stakes, piling, snags, fish traps, remains of wharves, cattle fences, and other objects which were not visible on the photographs, but were indicated by field inspection data, have been shown, outlined in black dashed lines, with accompanying descriptive notes.

Several trees across Powell Creek, logs awash and submerged logs, have been shown on this Map Drawing, according to field inspection data.

33 WHARVES AND SHORELINE STRUCTURES:

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

34 LANDMARKS AND AIDS TO NAVIGATION:

The following six landmarks are shown on this Map Drawing and have been recommended by the field inspection unit for charting. They are:

- HANGAR, north gable, white sides, black and yellow checkerboard roof
- CHIMNEY, E. GABLE HOUSE, MAYCOCKS POINT (Also triangulation station.)
- ABANDONED BEACON NEAR STATION RUIN (Also triangulation station.)
- CHIMNEY, conc., on E. gable, house with red roof, on point
- CHIMNEY, N.E. gable, white house, red trimmings, on beach.
- WESTOVER MANOR, white door frame, in center.
LANDMARKS AND AIDS TO NAVIGATION: (Continued)

In addition to the above the field inspection unit recovered the following 3 landmarks which are charted, namely:

**RANGE**
- JORDAN POINT FRONT, Fl. W. 1 sec. (Also triangulation station.)
- COOGINS PT. BLACK WATER TANK (Also triangulation station)
- JAMES RIVER LIGHT
- BAILEY CREEK LIGHT. (Also triangulation station.)

All of the above landmarks, except those which are triangulation stations, are shown on this Map Drawing with a 2.5 mm black acid ink circle.

The field inspection unit recommended that the following station be deleted as a landmark, namely:

**WESTOVER WATER TOWER** (Also triangulation station, reported tank removed.)

Form 567 is being submitted for this deleted landmark and the six new recommended landmarks.

The following fixed aids to navigation, which are also triangulation stations, were identified on the photographs by the field inspection unit and are shown on this Map Drawing. They are:

**RANGE**
- JORDAN POINT, FRONT FL. W. 1 sec. (Also JORDAN POINT FRONT RANGE LIGHT, 1938, r.1942.)
- BAILEY CREEK PLATE, Fl. W. 8 sec. (Also BAILEY CREEK LIGHT, 1938, r.1942.)

HYDROGRAPHIC CONTROL:

The Compilation Office was furnished the identification of 69 temporary hydrographic stations and 11 recoverable topographic stations (4 of which are recommended for landmarks.) These were identified on the 1:10,000 field photographs by numbers and their descriptions were listed in
35 HYDROGRAPHIC CONTROL: (Continued)

sketch books, Form 274, by corresponding numbers. Some of the descriptions have been duplicated on the field photographs. These stations were transferred to the 1:10,000 office photographs and radially plotted on the Map Drawing. In addition the field inspection unit recommended 13 triangulation stations (2 of which are new landmarks and 3 of which are landmarks already charted) for use as partial hydrographic control. The descriptions of the four classes of hydrographic stations have been noted directly on the Map Drawing.

Form 524 is being submitted for eleven recoverable topographic stations. They are:

OUTER END SMALL LANDING (TAR BAY)
LARGE CYPRESS
BLAZE ON LARGE CYPRESS
OUTER END SMALL LANDING
BLAZE ON WILLOW
W. GABLE OF ROOF OVER LOADER
FORKED DECIDUOUS TREE ON ISLAND
HANGAR, NORTH GABLE (Landmark)
CHIMNEY, CONC. ON E. GABLE NO. (Landmark)
CHIMNEY, N.E. GABLE WHITE NO. (Landmark)
WESTOVER MANOR (Landmark)

36 LANDING FIELDS AND AERONAUTICAL AIDS:

No aeronautical aids have been recommended by the field inspection unit. One landing field has been detailed at Jordan Point in accordance with the field inspection data.

37 JUNCTIONS:

The junction to the North with Map Drawing, Survey No. T-6087 is in excellent agreement.

The junction to the East with Map Drawing, Survey No. T-6084 is in excellent agreement.
37 JUNCTIONS: (Continued)

No junction could be made to the West with Map Drawing, Survey No. T-3091 because the compi-
lation for this Map Drawing has not as yet been started. This junction will be made at a later
date. 

There is no contemporary Survey of this series to the South.

38 GEOGRAPHIC NAMES:

A partial investigation of geographic names was made for the area of this Map Drawing by the 1942
field inspection unit, which was furnished the Compil-
lation Office in the form of notes in a copy of the U. S. Coast Pilot and on the field inspection photo-
graphs.

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.

There are no disputed geographic names in the area of this Map Drawing. The undisputed geographic names
have been alphabetically listed and are submitted here-
in.

39 HORIZONTAL ACCURACY:

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

40 RECOMMENDATIONS FOR FUTURE SURVEYS:

The shoreline, rough draft, Map Drawing, Survey
No. T-3096 is believed to be complete in all details
for charting and no other surveys are deemed necessary.
COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Comparison was made with the United States Geological Survey Charles City, Va. 15 minute quadrangle, edition of 1918, reprinted in 1931, Scale 1:62,500.

Due to scale difference only a visual comparison could conveniently be made. The following differences were noted:

In the vicinity of Jordan Point a large pond is shown on the Map Drawing which does not appear on the quadrangle.
At Lat. 37° 17' and Long. 77° 10' a pond is shown on the quadrangle. From office examination of the photographs this is believed to be a stream emptying into Powell Creek and it has been detailed accordingly.
In the vicinity of Chappell Creek is a low area or swamp shown on the Map Drawing. This does not appear on the quadrangle.

COMPARISON WITH NAUTICAL CHARTS:

Chart No. 530, published at Washington, D. C., September 1940 and corrected to March 6, 1944, Scale 1:40,000.

Due to scale difference a general comparison only could conveniently be made. The following differences were noted:

The marsh area at Bucklers Point, shown on the chart, is now covered with a growth of deciduous trees.

At Lat. 37° 17' and Long. 77° 10' a pond is shown on the chart.

From office examination of the photographs this is believed to be a stream emptying into Powell Creek, and is shown as such on the Map Drawing.

In the vicinity of Jordan Point a large pond is shown on the Map Drawing which does not appear on the chart.
45 COMPARISON WITH NAUTICAL CHARTS: (Continued)

The marsh area at Indian Point, shown on the chart, is now of a much smaller area and covers a small area just adjacent to both shores of Bickers Creek.

Chart No. 531, published at Washington, D. C., Aug. 1940, and corrected to Mar. 6, 1944, Scale 1:20,000.

The following differences were noted:

In the vicinity of Jordan Point a large pond is shown on the Map Drawing which does not appear on the chart.

Four wrecks approximately 1 mile west of Jordan Point, are shown on the Map Drawing and do not appear on the chart.

A large group of piling approximately 1 mile southwest of Jordan Point are shown on the chart and are not visible on the office photographs or indicated by field inspection data.

It is recommended that the planimetry shown on the Map Drawing supersede that which now appears in the corresponding areas on the charts.
Respectfully submitted:
July 11, 1944

M. Eleanor Herzog
Asst. Photogrammetric Aid

Compilation and Descriptive Report, Reviewed by:

Albert C. Rauch, Jr.
Sr. Photogrammetric Aid

Compilation of Map Drawing Supervised by:

Joseph Steinberg
Asst. Photogrammetric Engineer

and

R. Edward Deal, Jr.
Asst. Photogrammetric Engineer

Approved and Forwarded:
July 14, 1944

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

Undisputed

- Bailey Creek
- Blairs
- Nichols Creek
- Billy Creek
- Bucklers Point
- Chappell Creek
- Coggins Point
- Ducking Stool Point
- Eelbank Point
- Herring Creek
- Indian Point
- James River *
- Jordan Point *
- Maycocks Point
- Powell Creek
- Tar Bay
- Westover

* = US Board on Geographic Names decision

Names preceded by * are approved. 8-16-47  L. Heck.
26. Control.—Westover Water Tower, 1938 has been destroyed. However, the foundation is still visible on the 1:20,000 photographs and has been shown on the manuscript with a red circle.

The Duck Blind stations previously shown with a triangle symbol are considered less than third order control by Geodesy. The symbol has been changed to a circle.

28. Detailing.—Additions and corrections made during review have been based on the latest photographs available: the 1942 1:20,000 nine-lens photos. There is no field inspection of these later photos. Using photo interpretation, marsh and swamp areas have been differentiated on the map manuscript. A new pond and dam has been shown at 
\[ 37°10'10" \]

30. Mean High-Water Line.—The chief corrections to the shoreline have been on the marshy islands in the middle of the river.

32. Details Offshore from the High-Water Line.—The wrecked barge, bare at MHW, at 
\[ 37°13'6" \]

does not appear on the 1:20,000 photos so it has been removed from the manuscript. The three duck blinds west of Jordan Pt. could not be identified on the 1:20,000 photos. They have not been removed because their nonexistence is not positive. Four new duck blinds have been added and one removed from the manuscript. Some of the grass in water areas have been redefined.

34. Landmarks and Aids to Navigation.—See Chart Letter No. 499 (1944). The names of the two lights have been taken from the 1945 Light List.

41. Comparison with Previous Topographic Surveys.—T-1391 (1975) 1:10,000 is superseded for the area in common except for the contours, fence lines, and interior detail for nautical charting purposes.

42. Contemporary Topographic Surveys.—This survey covers the southern half of T-8321 and will be used as supplemental data in the compiling of its shoreline.
Reviewed by: Jack Rahn
Jack Rahn, Cartographer
12 March 1946

Under Direction of
J. Griffith
Chief, Review Section
Division of Photogrammetry

Approved by:

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

G. N. McMonagle
Chief, Nautical Chart Branch
Division of Charts

O. E. Reading
Chief, Div. of Photogrammetry

J. G. Rolph
Chief, Div. of Coastal Surveys
NAUTICAL CHARTS BRANCH

SURVEY NO. 8076

Record of Application to Charts

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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.