

8086

Diag. Cht. 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. _____ Office No. T-8086

LOCALITY

State Virginia

General locality James River

Locality Bucklers Point - Jordan Point

194 1-'43

CHIEF OF PARTY

H.O. Fortin, Chief of Party

F.L. Peacock, Balto. Photo. Office

LIBRARY & ARCHIVES

DATE _____

DATA RECORD

T- 8086

Quadrangle (II): ~~Charles City, Va. (U.S.C.S.)~~

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

Field Office:

Chief of Party: ~~Fred. L. Peacock~~ ^{Henry O. Fortin}

Air Photographic Party No. 2

Compilation 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

Copy filed in ^{Div. of Photogrammetry} ~~Descriptive~~
~~Report No. 1~~ (VI)

Completed survey received in office: 7-14-44

Reported to Nautical Chart Section: 7-21-44

Reviewed: 12 Mar 46

Applied to chart No. 531 (partially) Date: 22 Nov 44

Redrafting Completed: 12-28-49

Registered: 2 Feb 50

Published:

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)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
7488 to 7492	11/25/41	11:45 A.M.	1:10,000	0.8' above M.L.W.
7525 to 7530	"	11:17 A.M.	"	1.0' " "
7648 to 7653	"	1:33 P.M.	"	0.15' " "
7547 to 7551	"	11:34 A.M.	"	0.85' " "
13033 to 13036	12/31/42	3:36 P.M.	1:20,000	0.2 above MLW

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

Mean Range: 2.6'

Spring Range: 3.1'
2.9'

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 date: Summer 1942
Lieut. Comdr. Henry O. Fortin date: Season 1943
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.
Washington Office

date: 10/6/43

" " " checked by: B.R.C.
Washington Office

date: 10/7/43

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
7/11/44

Reviewed in compilation office by: A. C. Rauck, Jr.

date: 7/4/44
7/11/44

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 1944 from 1:20,000 scale photographs taken in 1942, in contrast with T⁸⁰⁸⁶, compiled in 1944-5 from 1:10,000 scale photographs taken in 1941.

Field Inspection

Field inspection data for the area of T~~2086~~⁸⁰⁸⁶ 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

26 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, Incl. 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.1942
- JORDAN ~~POINT~~ FRONT RANGE (LIGHT), 1938, r.1942 *1945 light list as "Jordan Point Range Front"*
- * 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
- COGGINS POINT, BLACK WATER TANK, 1942 (Landmark-)
- J.C.G., 1942 (U.S.E.)
- TIN WARE HOUSE, SOUTHWEST GABLE, 1942
- one word* ~~CHIMNEY, SOUTHERLY ON RED DWELLING WEST OF WESTOVER, 1942~~
- * DUCK BLIND NO. 1, 1942
- * DUCK BLIND NO. 2, 1942
- * DUCK BLIND NO. 3, 1942
- Sta destroyed* ~~WESTOVER WATER TOWER, 1938~~ (Tank removed since photographs were made)
- WESTOVER DOCK, FLAG ON PILE, 1942
- OVER 2, 1942
- MAY 2, 1942
- MAYCOCK ~~POINT~~ ^{East} HOUSE, GABLE, CHIMNEY, 1942
- Westover, red dwelling west of, southerly chimney, 1942
- Bailey Creek Light, 1938, r.1942 *1945 light list as "James River 109"*
- * less than third order

26 CONTROL: (Continued)

- BUCK 2, 1942
- — ABANDONED BEACON NEAR ~~TRIANGLE~~ 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.) *Not necessary to show on map.*
- ~~· — HARRIS 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
EPPE, 1910, r.1942 (Same as J.C.A.) (U.S.E.)
MAJOR, 1910, r.1942
JORDAN POINT REAR 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 HO. W. CHY., 1871, r.1938, 1942 (Same as
HARRISON HO. 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

26 CONTROL: (Continued)

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

- Over, 1910, r. 1942 [Same as J.C.H. (USE)]
- 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-8084
- 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 of T-8083
- J.C.H., 1942, (U.S.E.)
- J.C.N.-A, 1942, (U.S.E.) } Falls outside of T-8086
- ~~PEN, 1910, r. 1938, 1942 (Same as J.C.L.) (U.S.E.)~~
- ~~DUNN, 1938, r. 1942~~
- J.C.F., 1942 (U.S.E.)
- Herring Creek, Snag 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 } *Removed*

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 DETAILING:

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.

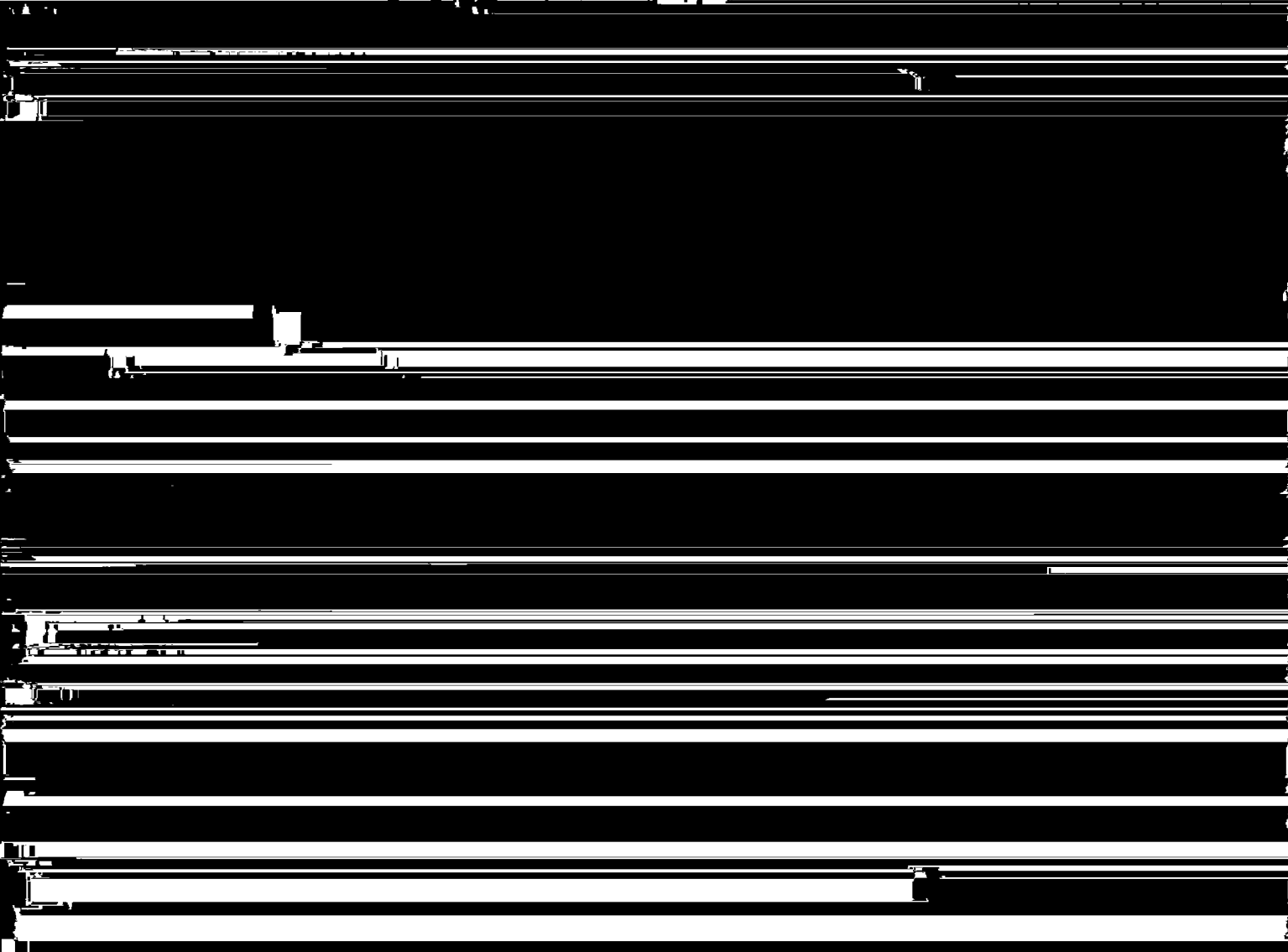
29 SUPPLEMENTAL DATA:

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

30 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



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:

previously charted (2/2/46)
The following six landmarks are shown on this Map Drawing and have been recommended by the field inspection unit for charting. They are:

	<u>Name on Chart 530</u>
HANGAR, north gable, white sides, black and yellow checkerboard roof	(N. GAB)
CHIMNEY, E. GABLE HOUSE, MAYCOCKS POINT (Also triangulation station.)	CHY. (E. GAB. HO.)
ABANDONED BEACON NEAR TRIANGULATION STATION RUIN (Also triangulation station.)	OLD BN
CHIMNEY, conc., on E. gable, house with red roof, on point	CHY.
CHIMNEY, N.E. gable, white house, red trimmings, on beach.	CHY.
WESTOVER MANOR, white door frame, in center.	HOUSE

34 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.)

COGGINS PT. BLACK WATER TANK (Also triangulation station)

~~JAMES RIVER 109 LIGHT~~
~~BAILEY CREEK LIGHT~~ (Also triangulation station, Bailey Creek Lt. 1938, r. 1942)

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 (~~previously charted~~) 2/2/46

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 FLATS~~, Fl. W. ~~5~~ sec. (Also BAILEY CREEK LIGHT, 1938, r. 1942.)

35 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

Y. deleted in Naut. Chart
Ch. Letter 799. 2/2/46

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~~ *formerly charted* 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 HO. (Landmark)
CHIMNEY, N.E. GABLE WHITE HO. (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-8087 is in excellent agreement.

The junction to the East with Map Drawing, Survey No. T-8084 is in excellent agreement.

37 JUNCTIONS: (Continued)

No junction could be made to the West with Map Drawing, Survey No. T-8091 because the compilation for this Map Drawing has not as yet been started. This junction will be made at a later date. *Junction OK.*

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

38 GEOGRAPHIC NAMES: *8/4*

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 Compilation Office in the form of notes in a copy of the U. S. Coast Pilot and on the field inspection photographs.

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 herein.

39 HORIZONTAL ACCURACY:

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.

40 RECOMMENDATIONS FOR FUTURE SURVEYS:

The shoreline, rough draft, Map Drawing, Survey No. T-8086 is believed to be complete in all details for charting and no other surveys are deemed necessary.

44 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. $37^{\circ} 17'$ and Long. $77^{\circ} 10'$ 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.

45 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. $37^{\circ} 17'$ and Long. $77^{\circ} 10'$ 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



Respectfully submitted:
July 11, 1944

M. Eleanor Herzog
M. Eleanor Herzog
Asst. Photogrammetric Aid

Compilation and Descriptive
Report, Reviewed by:

Albert C. Rauck, Jr.
Albert C. Rauck, Jr.
Sr. Photogrammetric Aid

Compilation of Map Drawing
Supervised by:

Joseph Steinberg
Joseph Steinberg
Asst. Photogrammetric Engineer

and

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

Approved and Forwarded:
July 14, 1944

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

GEOGRAPHIC NAMES

Undisputed

- - • Bailey Creek
- • Blairs
- ~~Bickers Creek~~ • • Jenny Creek (Pending with
USBGN) 2-6-50
NO DECISION
- - • 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

* = USBGN
decision

Names preceded by • are
approved. 8-16-49 L. Heck.

Review Report T-8086
Shoreline Map

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 photographys 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 $\lambda 37^{\circ}16\frac{1}{2}'$, $\phi 77^{\circ}10'$.

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 $\lambda 37^{\circ}18.6'$, $\phi 77^{\circ}14.6'$ 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 (1875) 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:

Under Direction of

Jack Rihn
Jack Rihn, Cartographer
12 March 1946

L. V. Griffith
Chief, Review Section *L.H.*
Division of Photogrammetry

Approved by:

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

H. Edmonson
Chief, Nautical Chart Branch
Division of Charts

J. S. Reading
Chief, Div. of Photogrammetry

John K. G. Crosby
Chief, Div. of Coastal Surveys *42*

NAUTICAL CHARTS BRANCH

SURVEY NO. 8086

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.