

8779

Diag. on Diag. Ch. No. - 294

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Photogrammetric Shoreline

Project No. Ph-7(46)-C

Field No. Office No. T-8779

LOCALITY

State New Jersey

General locality Delaware River

Locality Mad Horse Creek to Artificial Island

194 6

CHIEF OF PARTY

Thos. B. Reed

LIBRARY & ARCHIVES

DATE January 26, 1949

B-1870-1 (1)

6228

DATA RECORD

T-8779

Quadrangle (II):

Project No. (II): Ph-7(46)-C

Field Office: Camden, N.J.

Chief of Party: E.L. Jones

Compilation Office:
Baltimore Photogrammetric Office

Chief of Party: Thos. B. Reed

Instructions dated (II III):
25 March 1946, 19 July 1946Copy filed in ~~Descriptive~~
~~Report No. T-~~ (VI)
Division of Photogrammetry
Office Files

Completed survey received in office:

8 April 1948

Reported to Nautical Chart Section:

Reviewed: 7 June 1948 Applied to chart No.

Date:

Redrafting Completed:

Registered: 16 Aug 1948

Printed
~~Published:~~ 10 Aug 1948 (Vault copy)

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): 1.000

Geographic Datum (III): N.A. 1927

Datum Plane (III): ~~M.S.L.~~
M.H.W.

Reference Station (III): STONY, 1933

Lat.: 39° 27' 37.699" (1162.6m) Long.: 75° 32' 10.921" (261.1m) Adjusted
~~Undistorted~~State Plane Coordinates (VI):
New Jersey:-

X = 1,754,433.32 Feet Y = 229,598.70 Feet

Delaware:-

X = 466,201.26 Feet Y = 531,922.40 Feet

Military Grid Zone (VI)

PHOTOGRAPHS (III)
75th meridian

Number	Date	Time	Scale	Stage of Tide
D-1488 to 1490 incl.	3/1/46	1255	1:10,000	2.5' above M.L.W.
D-1500 to 1502 incl.	3/1/46	1305	1:10,000	2.3' " "
D-1520 to 1527 incl.	3/1/46	1345	1:10,000	1.8' " "

Tide from (III): Actual tide observations at Philadelphia corrected to "Reedy Island to Liston Point"

Mean Range: 5.7' Spring Range: 6.4'

Camera: (Kind or source) U.S.Coast and Geodetic Survey single lens camera. Wide angle, type "D" -- Focal length 12".

Field Inspection by: E.L.Jones

date: April and June-August 1946

Field Edit by: (See T-8756)
Donald G. Flippo

date: Feb.-Mar., 1948

Date of Mean High-Water Line Location (III): Same as date of photographs supplemented with field inspection obtained during June-August 1946.

Projection and Grids ruled by (III) T.L.Janson

date: 5 Aug. 1946

" " " checked by: T.L.Janson

date: 5 Aug. 1946

Control plotted by: Leroy A. Senasack

date: 24 Sept. 1946

Control checked by: Frank J. Tarcza

date: 25 Sept. 1946

Radial Plot by: Frank J. Tarcza
Harry R. Rudolph

date: Dec. 1946
29 May 1947

Detailed by: Ruth M. Whitson

date: June 2 to June 5, 47
June 9 to July 22, 47

Reviewed in compilation office by: J.W.Vonasek

date: July 30 to August 1, 1947

Elevations on ^{Map Manuscript} ~~Field Edit Sheet~~
checked by: ^{Not applicable} Raymond Glaser (for T-8756)

date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 9

Shoreline (More than 200 meters to opposite shore): 9 statute miles

Shoreline (Less than 200 meters to opposite shore): 94 statute miles
(measured along the center line of stream)

Number of Recoverable Topographic Stations established: 2

Photo Hydro Points
Number of ~~Temporary Hydrographic Stations~~ located by radial
plot: 3 (One of which is an Aid to Navigation)

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:

SCALE FACTOR

**FACTOR DISTANCE
FROM GRID OR PROJECTION LINE**

201.6 (1232.8)

1290.8 (143.8)

968.0 (882.4)
623.8 (811.3)

1162.6 (687.8)

1152.4 (698.0)

9/23/46

M-2380.12

FIELD REPORT

MAP MANUSCRIPT, SURVEY NO. T-8779

Shoreline Survey No. T-8779 is in the area covered by Topographic Surveys Nos. T-8755 and T-8756. For data covering Survey No. T-8779 refer to the field reports of the above mentioned topographic reports.

COMPILATION REPORT

SHORELINE MANUSCRIPT, SURVEY NO. T-8779

T-8779 is one of 12 shoreline manuscripts in Project No. Ph-7(46)C located along the Delaware River and Bay. These surveys are to be compiled in accordance with instructions dated 25 March 1946 and 19 July 1946 by graphic photogrammetric methods. Filed in Division of Photogrammetry Office Files.

26. CONTROL

See layout of control submitted to the Washington Office, June 24, 1947. A list of stations on Form No. M2388-12 is included in this report.

27. RADIAL PLOT

Refer to the report for the combined radial plot covering the area of Surveys Nos. T-8777, T-8779, and the northern portion of T-8778, which was submitted to the Washington Office, 24 June 1947. Filed in Division of

28. DELINEATION

Attached to Desc Report Photogrammetry General
T-8777 Filed

The compilation is in accordance with the written instructions pertaining to Project No. Ph-7(46)C, dated 19 July 1946.

The complete marsh area has not been delineated because of inadequate photographic coverage. For complete delineation of marsh area and of interior detail, see Topographic Surveys Nos. T-8755 and T-8756.

A grassy islet located at the mouth of Fishing Creek, 1400 meters northeast of Alder Cove has been delineated on the manuscript as shown on field print No. 1524, and not as shown on field print No. 1525.

30. MEAN HIGH WATER LINE

The shoreline was delineated from single lens photographs (1:10,000 scale field ratio prints) in accordance with the field identification shown thereon. Shoreline, for which no field inspection was furnished, (approximately 20%) was delineated by the compilation office after careful stereoscopic examination of the photographs.

31. MEAN LOW WATER LINE

A small percentage of the mean low water line was identified by the field party, and no attempt at identification was made in the compilation office. Only the portion of the M.L.W.L. identified by the field party was shown on the map manuscript. See Review Report

32. DETAILS OFFSHORE FROM THE MEAN HIGH WATER LINE

Delineated in accordance with the field identification.

(See Field Report for Survey No. T-8755
Paragraph 10)

33. WHARVES AND SHORELINE STRUCTURES

Delineated in accordance with the field identification.

34. LANDMARKS AND AIDS TO NAVIGATION

See Form 567 submitted with reports for Topographic Surveys Nos. T-8755 and T-8756. Filed in Division of Charts.

35. HYDROGRAPHIC CONTROL

Three (3) photo hydro points.

A descriptive list of the photo hydro points has been compiled and is attached to this report. Two additional copies have been furnished for the use of the hydrographic parties.

36. LANDING FIELD AND AERONAUTICAL AIDS

None.

38. GEOGRAPHIC NAMES

Geographic names were taken from final names standards, dated 12-9-46, furnished by the Washington Office. A list of geographic names is attached to this report. Approved by L. Heck, Geographic Names Section, Div. Charts.

39. JUNCTIONS

Junctions with Surveys Nos. T-8781 and T-8777 to the south and to the north respectively have been made and are in agreement. Junction with T-8778 to the west is an all water area. There are no other junctions with surveys of the same scale. T-8779 is a part of Topographic Surveys T-8755 and T-8756.

40. BOUNDARIES

None shown See review report.

41. BRIDGES

There are no bridges over navigable waterways in the area.

44. COMPARISON WITH EXISTING TOPOGRAPHIC SURVEYS

Survey No. T-8779 has been compared in detail with the U. S. Geological Survey Smyrna Quadrangle, scale 1:62,500 and the Corps of Engineers, U.S. Army Shiloh Quadrangle, scale 1:62,500, and found to be in good agreement except for Artificial Island and Hope Creek Jetty which do not appear on the quadrangles.

45. COMPARISON WITH NAUTICAL CHARTS

Survey No. T-8779 has been compared with Nautical Chart No. 294, scale 1:40,000, and found to be in fair agreement.

The following topographic information shown on T-8779 is of sufficient importance to warrant immediate application to the chart:

A wreck along shore, west of Stony Point and east of a line of ships burned to the waterline.

Two (2) lights formerly located south of Artificial Island on ships which have been burned to the waterline, no longer exist. *do not delete*

The following topographic details above the plane of mean high water are not shown on this manuscript, but are believed to still exist and should be carried forward on the chart:

None.

Low water features are shown in part and should be completed by the hydrographic party.

Respectfully submitted
24 July 1947

Arthur J. Whitson
Engineering Draftsman
Compilation and Descriptive
Report

Harry R. Rudolph
Supervisor

Joseph W. Courasak
Photogrammetric Engineer
Photogrammetric Office Review

Approved and forwarded
13 August 1947

Thos O. Baird
Officer in Charge
Baltimore Photogrammetric Office

NOTES FOR
HYDROGRAPHIC PARTIES

DELAWARE RIVER

SHORELINE MANUSCRIPT, SURVEY NO. T-8779

PROJECT NO. PH-7(46)C

The 2½ millimeter circle, accompanied with a name and date, indicates the position of a recoverable photo (topographic) station and the 2½ millimeter circle, accompanied by a number is the position of a photo-hydro point.

T-8779 has been compared to Nautical Chart No. 294, scale 1:40,000, and was found to be in fair agreement.

The following topographic information shown on T-8779 is of sufficient importance to warrant immediate application to the chart:

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Respectfully submitted
24 July 1947


Engineering Draftsman

Approved and forwarded
13 August 1947


Officer in Charge
Baltimore Photogrammetric Office

LIST OF DESCRIPTIONS OF PHOTO HYDRO POINTS

Number	Description	Pricked on Photo Number
5501	(No description furnished by field party)	46-D-1489
5502	Range. Single pile. Approximately 40' high. Red and white triangle on top. Unlighted.	46-D-1489
5506	Light on end of Jetty .	46-D-1488

Listed by *Ruth H. Whitson*
Engineering Draftsman

Checked by: *Joseph W. Voracek*
Photogrammetric Engineer

GEOGRAPHIC NAMES

- Alder Cove ✓
- Alloway Hope Halfway (stream)
- Artificial Island ✓
- Bucks Ditch ✓
- Cat Gut ✓
- Delaware River ✓
- Fishing Creek (Northward) ✓
- Fishing Creek (to south) ✓
- Goose Pond ✓
- Hope Creek ✓
- Hope Creek Jetty ✓
- ~~Dappies~~
- Little Creek
- Long Pond ✓
- Mad Horse Creek ✓
- Malapartis Creek ✓
- Shore Ditch
- Stony Point ✓
- Upper Deep Creek ✓

• Delaware Bay ✓

Names preceded by • are
approved. 5/25/48
L. Heck

Division of Photogrammetry
Review Report of
Shoreline Map Manuscript T-8779

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

28. Detailing.--The compilation office delineated the apparent shoreline as submitted by field inspection. They indicated the low-water line by a line of alternate dashes and dots where it was accurately located by field inspection and by a dotted line where it was located by office interpretation. This is according to the instructions of 19 July 1946 and no attempt has been made to revise the symbolization of low-water line to agree with the later Photogrammetry Instructions of 15 September 1947.

39. Junctions.--The junction to the north with map manuscript T-8777 was not made with that manuscript as it was not available at the time of review. However, a double weight print of T-8777 was available and the junction was in agreement. Junction checked with
map manuscript T-8777
8/16/48
K.H.D.

40. Boundaries.--The Delaware-New Jersey State boundary line and the boundary line indicating the division of the Delaware River and Delaware Bay have been added during review.

43. Comparison with Previous Surveys.--

T-63	1:20,000	1841
T-140	1:10,000	1841
T-141	1:10,000	1841
T-155	1:20,000	1842-3
T-1550	1:20,000	1882-3

44. Comparison with Existing Topographic Quadrangles.--

Vineland, Del.-N. J., USGS, 1:125,000, 1886-96
Smyrna, Del.-N. J., USGS, 1:62,500, 1926-27
Shiloh, N. J.-Del., USGS, 1:62,500 1886-89
Shiloh, N. J.-Del, U.S.E., 1:62,500, 1932-38, 1940

45. Comparison with Nautical Charts.--

Chart No. 294,	1:40,000	11-17-47
Chart No. 1218	1:80,000	12-8-47

This map manuscript has not been applied to nautical charts 294 and 1218.

Reviewed by:

K. N. Maki

K. N. Maki

6-7-48

APPROVED:

S. V. Griffith

Chief, Review Section *K.N.M.*
Div. of Photogrammetry *12/22/48*

H. R. Edmonston

Chief, Nautical Chart Branch
Division of Charts.

K. T. Adams

Chief, Div. of Photogrammetry

C. K. Green

Chief, Div. of Coastal Surveys *1/4/49*

NAUTICAL CHARTS BRANCH

SURVEY NO. ZE 8779

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.