

11159

Diag. Cht. No. 1205.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-111C Office No. T-11159

LOCALITY

State Maine

General locality Gulf of Maine

Locality Wood Island to Fletcher Neck

194 53

CHIEF OF PARTY

E.H.Kirsch, Chief of Field Party

I.R.Rubottom, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE September 16, 1958

B-1870-1 (1)

11159

DATA RECORD

T - 11159

Project No. (II): Ph-114C

Quadrangle Name (IV):

Field Office (II): Newburyport, Mass.

Chief of Party: E. H. Kirsch

Photogrammetric Office (III): Tampa, Florida

Officer-in-Charge: Ira R. Rubottom

Instructions dated (II) (III): Project Instructions dtd 13 Mar. 1953. Copy filed in Division of
 Supp. No. 1 " 28 Mar. 1953. Photogrammetry (IV)
 Supp. No. 2 " 30 Apr. 1953.
 Supp. No. 3 " 6 May 1953.
 Supp. No. 4 " 26 May 1953.
 Supp. No. 5 " 25 June 1953.

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None

Date received in Washington Office (IV): 5-24-58 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 5/26/58

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III): M.H.W.

Mean sea level except as follows:
 Elevations shown as (25) refer to mean high water
 Elevations shown as (5) refer to sounding datum
 i.e., mean low water or mean lower low water

Reference Station (III): FLETCHERS NECK 156, 1941

Lat.: 43° 26' 55".921 (1725.8m.) Long.: 70° 20' 30".066 (676.0m.) Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State:

Zone:

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,
 or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

INAPPLICABLE

Areas contoured by various personnel
(Show name within area)
(II) (III)

DATA RECORD

Field Inspection by (II): L. F. B.

Date: Sept. 1953

Planetable contouring by (II): Inapplicable

Date:

Completion Surveys by (II): Inapplicable

Date:

Mean High Water Location (III) (State date and method of location):

Sept. 1953
Air Photo Compilation

Projection and Grids ruled by (IV): Austin Riley (W.O.)

Date: 7 Aug. 1953

Projection and Grids checked by (IV): H. D. Wolfe (W.O.)

Date: 14 Aug. 1953

Control plotted by (III): R. J. Pate

Date: 7 Jan. 1954

Control checked by (III): M. M. Slavney

Date: 7 Jan. 1954

Radial Plot on ~~Stereoscopic~~ M. M. Slavney
~~Control extension by~~ (III):

Date: 2 Feb. 1954

Stereoscopic Instrument compilation (III):
Planimetry
Contours Inapplicable

Date:

Date:

Manuscript delineated by (III): R. E. Smith

Date: 12 May 1954

Photogrammetric Office Review by (III): J. A. Giles

Date: 17 May 1954

Elevations on Manuscript Inapplicable
checked by (II) (III):

Date:

Camera (kind or source) (III): **US&GS Fairchild Cartographic Camera "J"**

Number	Date	Time	Scale	Stage of Tide
53-J-344	22 April 1953	10:17	1:10,000	2.6
345	"	10:18	"	"
346	"	10:19	"	"
347	"	10:19	"	"
348	"	10:20	"	"
350	"	10:22	"	"
351	"	10:23	"	"
352	"	10:24	"	"
53-J-197 to 217 incl.	18 April 1953	unknown	"	(low-water photography)

195@ 10:00 = 0.87'
203 10:10 = 1.25'
218 10:15 = 1.3'

Tide (III)

Computed from the predicted tide tables

Reference Station: **PORTLAND, MAINE**
Subordinate Station: **WOOD ISLAND HARBOR, MAINE**
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
-	8.9	10.2
1.0	8.7	9.9

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **1**

Shoreline (More than 200 meters to opposite shore) (III): **12**

~~Shoreline (Less than 200 meters to opposite shore) (III):~~

~~Control Leveling - Miles (II):~~

Number of Triangulation Stations searched for (II): **8**

Recovered: **3**

Identified: **3**

Number of BMs searched for (II): **none**

Recovered: **none**

Identified: **none**

Number of Recoverable Photo Stations established (III): **none**

Number of Temporary Photo Hydro Stations established (III): **16**

Remarks:

Summary to Accompany T-11159

Field instructions were issued for Ph-114 on 13 March 1953 to provide shoreline and control for inshore hydrographic surveys and to provide standard shoreline manuscripts for chart compilation.

The hydrographic phase of survey was accomplished under instructions for CS-355, 6 March 1953, 29 January 1954, and 16 February 1955, Gloucester Harbor, Mass. to Biddeford, Saco River, Maine.

~~A cloth-backed lithographic~~ ^{CRONAR} print of each map at manuscript scale and the descriptive report will be registered and permanently filed in the Bureau Archives.

* THE FIELD INSPECTION REPORT WILL BE SUBMITTED
SEPARATELY

* Filed as a part of Report T 11148

COMPILATION REPORT T-11159

PHOTOGRAMMETRIC PLOT REPORT.

* This report will be submitted separately.

* Filed as a part of Report T-11144

31. DELINEATION.

The graphic method of compilation was used. EAGLE ISLAND (approximate latitude $43^{\circ} 28'5''$, longitude $70^{\circ} 21'5''$) has not been mapped because of insufficient photographic coverage. *and the ledge at lat. $43^{\circ} 28'00''$ long $70^{\circ} 22'30''$*
For the delineation of the shoreline of EAGLE I. see H-8257(1955) - it is not shown on T-11575.

A portion of a rock jetty and two of its piers have been labeled "approx." The jetty appears in a straight line on the photograph which showed it in its entirety. Half of it could be controlled by cutting in detail points. The remainder was extended since the direction is believed to be correct. The positions of two of the piers may be approximate. L.S.S. 6/8/61.

Photographs 53-J-204 to 53-J-217, inclusive, were of very poor scale. They were used only for the delineation of the low-water line and rock ledges. The projector was used for the delineation from these photographs.

32. CONTROL.

Reference Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA.

None

34. CONTOURS AND DRAINAGE.

Contouring inapplicable.

The drainage has been delineated according to the photographs

35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline and alongshore details have been delineated according to field inspection notes and stereoscopic study. The shoreline inspection was adequate.

The low-water line was delineated from data furnished by the field inspection on the photographs.

36. OFFSHORE DETAILS.

Rocks and rock ledges were indicated by field inspection. These have been delineated accordingly. Rock ledges were delineated by symbol from a study of all available photographs. The heights of the rocks were symbolized as indicated by tide computation computed from inspection data submitted by the field inspector.

37. LANDMARKS AND AIDS.

Landmarks are to be submitted by the hydrographic party. Form 567 is being submitted herewith for nonfloating aids.

38. CONTROL FOR FUTURE SURVEYS.

Sixteen (16) temporary photo-hydro stations are listed under Item 49.

39. JUNCTIONS.

No contemporaneous survey on the north (Gulf of Maine)
 No contemporaneous survey on the south (Gulf of Maine)
 No contemporaneous survey on the east (Gulf of Maine)
 T-11160 on the west - incomplete (advance survey)

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with Army Map Service Quadrangle BIDEFORD POOL MAINE, scale 1:25,000, dated 1949 (original map was compiled from photo-survey by the USC&GS in 1944). The two are in fair agreement except for a rock ledge named DANSBURY REEF. This could not be seen on the photographs, consequently not mapped. (Taken from Hydro. surveys)

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with USC&GS Nautical Chart No. 1205, scale 1:80,000, dated June 1950 (8th Edition), corrected to 28 July 1952. The two were in fair agreement.

The map listed in Item 46 appears to have had the same source of topography and the same differences exist.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Rexford E. Smith, Jr.

Rexford E. Smith, Jr.
Carto Photo Aid

APPROVED AND FORWARDED:

Ira R. Rubottom
Ira R. Rubottom, Chief of Party

Review Report T-11159
Shoreline Map
28 February 1957

62. Comparison with Registered Surveys

T-760	1:10,000	1859	Fletchers Neck and Vicinity
T-1188	"	1870	Mouth of the Saco River
T-1188a	"	1912-13	and Biddeford Pool

Because of extensive cultural changes, T-11159 supersedes the older surveys for charting purposes (See also T-11575, 1:5,000, same area). *Note paragraph 31, page 8 of this D.R.*

63. Comparison with Maps of Other Agencies

USE Biddeford Pool 1:25,000 1949
T-11159 (and T-11575) supersede the quadrangle for charting.

64. Comparison with Contemporary Hydrographic Surveys

A-8257 1:5,000 1955 Fletchers Neck

A blue-print of the boat sheet was available for review. The shoreline is that of T-11159 (& T-11575). No changes were made during review. *see paragraph 31, page 8 of this D.R. also paragraph 2 Review of H-8257(1955) L.S.S. 6/8/61*

The reef at Halftide Rock as delineated was in conflict with the hydrographic survey. Its form was changed during review and rock elevations from field photographs 53-J-200 were added.

65. Comparison with Nautical Charts

231 1:20,000 Oct. 1945 Corr. July 1954

T-11159 was utilized by charts prior to review.

66. Accuracy

This survey complies with project instructions and meets the National Standards of Accuracy.

Reviewed by:

E. N. Maki
for Lena T. Stevens

APPROVED BY:

L. C. Landy
Chief, Review & Drafting Sec.
Photogrammetry Division

LeW Swanson
Chief, Photogrammetry Division

Max S. Kettles
Chief, Nautical Chart Branch
Charts Division

[Signature]
Chief, Coastal Surveys

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48. GEOGRAPHIC NAME LIST.

All names shown are base map names. No additions or deletions were submitted by the field inspector.

BASKET ISLAND
BEACH ISLAND
BIDDEFORD POOL

FLETCHER NECK

GOOSEBERRY ISLAND
- GULF OF MAINE

HALFTIDE ROCK
HILL BEACH

- LIBBYSHEARS

- MAINE

NEGRO ISLAND

PHILIP ROCK

RAM ISLAND

STAGE ISLAND
STATE 9
STATE 208

THE POOL

WASHMAN ROCK
WOOD ISLAND
WOOD ISLAND HARBOR

49. NOTES FOR THE HYDROGRAPHER.

The following photo-hydro stations were identified in the field and are listed for the benefit of the hydrographer:

5901 - Northeast gable, white house, blue trim	53-J-344
5902 - Chimney, center two story brown shingled house (four dormer windows)	53-J-344
5903 - Spire, on southwest gable of house	53-J-345
5904 - Square platform, white house	53-J-345
5905 - South gable of house	53-J-345
5906 - Spire, most easterly of four on Mary Joseph Academy.	53-J-345
5907 - South gable of house	53-J-200
5908 - Coast Guard Lookout Tower	53-J-200
5909 - Spire	53-J-200
5910 - Chimney, north gable, white house (three dormer windows)	53-J-200
5911 - Spire, Union Church	53-J-200
5912 - Chimney, center of house, green shutters	53-J-346
5913 - Chimney, South gable, green roof house	53-J-346
5914 - East gable of northeast house	53-J-346
5915 - North gable, brown roof house	53-J-346
5916 - West gable of boat house	53-J-346

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T. 11159

1. Projection and grids J.G. 2. Title J.G. 3. Manuscript numbers J.G. 4. Manuscript size J.G.

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ~~XX~~ M.S. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) XX 7. Photo hydro stations J.G. 8. Bench marks XX 9. Plotting of sextant fixes J.G. 10. Photogrammetric plot report J.G. 11. Detail points J.G.

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline J.G. 13. Low-water line J.G. 14. Rocks, shoals, etc. J.G. 15. Bridges XX 16. Aids to navigation J.G. 17. Landmarks XX 18. Other alongshore physical features J.G. 19. Other along-shore cultural features J.G.

PHYSICAL FEATURES

20. Water features J.G. 21. Natural ground cover J.G. 22. Planetable contours XX 23. Stereoscopic instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical features J.G.

CULTURAL FEATURES

27. Roads J.G. 28. Buildings J.G. 29. Railroads XX 30. Other cultural features J.G.

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

33. Geographic names J.G. 34. Junctions J.G. 35. Legibility of the manuscript J.G. 36. Discrepancy overlay XX 37. Descriptive Report J.G. 38. Field inspection photographs J.G. 39. Forms J.G.

40. Jesse A. Giles *Jesse A. Giles* William A. Rasure *William A. Rasure*
 Reviewer Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

 Compiler

 Supervisor

43. Remarks:

M-2623-12

