11143

Diag. Cht. Nos 229 and 1206.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-114 *Office No.* T-11143

LOCALITY

State Maine - New Hampshire

General locality Piscataqua River

Locality Portsmouth to Great Bay

1952

CHIEF OF PARTY
E.H.Kirsch, Chief of Field Party
I.R.Rubottom, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE September 15, 1958

B-1870-1 (1)

11143

PRELIMINARY

DATA RECORD

T - 11143

Project No. (II): Ph-114(53) Quadrangle Name (IV):

Field Office (II): Chief of Party:

Photogrammetric Office (III): Tampa, Florida Officer-in-Charge: J. E. Waugh

Instructions dated (II) (III): Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000 Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): None

Date received in Washington Office (IV): MAR 2 6 1953 Date reported to Nautical Chart Branch (IV): MAR 31 1953

Applied to Chart No. Date: Date registered (IV): 4/10/58

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): NEWINGTON CHURCH SQUARE SPIRE 1850 1908

Lat.: 43° 05' 53".283 (1644.3 m.) Long.: 70° 50' 00".493 (11.1 m.) Adjusted

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.

M-2618-12(4)

DATA RECORD

Field Inspection by (II): None — Date:

Planetable contouring by (II): — Date:

Completion Surveys by (II): — Date:

Mean High Water Location (III) (State date and method of location): Air Photo Compilation (Office inspection only) — 2 July 1952

Projection and Grids ruled by (IV): S. Rose (W.O.) — Date: 14 Feb. 1953

Projection and Grids checked by (IV): H. D. Wolfe (W.O.) — Date: 16 Feb. 1953

Control plotted by (III): R. E. Smith — Date: 3 Mar. 1953

Control checked by (III): R. R. Wagner — Date: 3 Mar. 1953

Radial Plot ~~of Stereoscope Control Accuracy~~ by (III): M. M. Slavney — Date: 12 Mar. 1953

Stereoscopic Instrument compilation (III): Planimetry — Inapplicable — Date:

Contours — Date:

Manuscript delineated by (III): R. A. Reece — Date: 20 Mar. 1953

Photogrammetric Office Review by (III): J. A. Giles — Date: 24 Mar. 1953

Elevations on Manuscript checked by (II) (III): None — Date:

M-2618-12(4)

3

Camera (kind or source) (III): Single-lens — Department of Agriculture (Mark Hurd Mapping Co.)

PHOTOGRAPHS (III)

Number	Date	Time	Scale		Stage of Tide
DQW-9K-131-136 incl.	2 July 1952	10:30	1:10,000	3.1	2.9 Ft.
DQW-9K-170-176 incl.	"	10:46	"	2.8	"
DQW-9K-182-187 incl.	"	10:55	"	2.7	"
DQW-10K-12-16 incl.	"	11:20	"	2.3	"

average 2.7

Tide (III)

FROM PREDICTED TIDES

Ratio of Ranges	Mean Range	Spring Range
0.7	6.4	7.4

Reference Station: PORTLAND, MAINE
Subordinate Station: DOVER POINT, N. H.
Subordinate Station:

Washington Office Review by (IV): Lena T. Stevens — Date: 7 Dec. 1953

Final Drafting by (IV): — Date:

Drafting verified for reproduction by (IV): — Date:

Proof Edit by (IV): — Date:

Land Area (Sq. Statute Miles) (III): -

~~Shoreline (More than 200 meters to opposite shore)~~ (III): 35

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): - Recovered: - Identified: -

Number of BMs searched for (II): - Recovered: - Identified: -

Number of Recoverable Photo Stations established (III): -

Number of Temporary Photo Hydro Stations established (III): 116

Remarks:

M-2618-12(4)

Summary to Accompany T-11143

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

T-11143 is one of Part A of the project. This part was compiled without benefit of field inspection.* Subsequent to the hydrographic work, the shoreline was revised to conform to information received from the hydrographic party.

A ~~cloth-backed lithographic print~~ cronar film positive of each map at manuscript scale and the descriptive report will be registered and permanently filed in the Bureau Archives.

* Control identification and some field inspection was obtained from records of the prior 1:20000 topo mapping project.

5 ✱

PRELIMINARY

COMPILATION REPORT T-11143

PHOTOGRAMMETRIC PLOT REPORT.

✱This report will be submitted at a later date.
✱ This report is filed with Report T 11146

31. DELINEATION.

The graphic method was used.

Photographs were of fair to good scale. No difficulties were encountered or unusual methods used.

32. CONTROL.

Sufficient horizontal control was located by the radial plot to insure accurate control of each photograph.

33. and 34.

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS.

The limits of alongshore areas outside of the M. H. W. L. which may be shallow, shoal, grass-in-water, marsh, grass-and-mud, mud etc. have been delineated by a dashed line. It is requested that such areas be investigated and properly classified.

In a few areas (with a view to further aiding the hydrographer) some stretches of what appeared to be the channel or shoal limits have been indicated by a special symbol; i.e. a line whose dash is one-half of the length of that mentioned in the preceeding paragraph. This shorter dash has not been used unless the off-shore limits of these areas were sharp and unmistakably discernible on the photographs.

Feature located in water at Latitude 43° 05' 45", Longitude 70° 46' 58" needs to be investigated before accurate delineation and labeling can be done.

36. OFFSHORE DETAILS.

None observed.

37. LANDMARKS AND AIDS.

To be located by the hydrographer.

38. CONTROL FOR FUTURE SURVEYS.

The recoverable topographic stations (Form 524) located in 1943 in the area of this map were examined and only one, PORTSMOUTH WATER TANK, could be positively identified on the photographs in this project. PORTSMOUTH WATER TANK was located by the radial plot method and is listed under Item 49.

One hundred and twelve (112) temporary photo-hydro stations are shown. These have been listed under Item 49.

39. JUNCTIONS.

A satisfactory junction has been made with Survey Number T-11141 to the north; T-11142 to the west; T-11144 to the east; and T-11146 to the south.

40. HORIZONTAL AND VERTICAL ACCURACY.

Refer to Photogrammetric Plot Report relative to horizontal accuracy.

7

41. CABLE CROSSINGS.

There are cable crossings at the following positions:

Latitude	Longitude	
43° 07' 05"	70° 49' 50"	(Dover Point)
43 05 45	70 46 40	(Atlantic Heights)
43 06 15	70 46 30	(Spinney Creek)

Photo-hydro stations Numbers 184 and 208 are transmission towers.

An investigation of types of crossings is requested, giving overhead clearances wherever needed. Ch. L. No 58, 1954

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with USC&GS Quadrangle T-8531 ( ). No outstanding shoreline differences were noted.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with USC&GS Nautical Chart No. 229, scale 1:30,000, published November 1914 and corrected to 26 January 1953. No outstanding differences were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Richard A Reece
Richard A. Reece,
Cartographic Photogrammetric Aid

APPROVED AND FORWARDED.

J.E.Waugh
J. E. Waugh, Chief of Party

8 7E

48. GEOGRAPHIC NAME LIST.

Only base map names have been shown. They were taken from U. S. Coast and Geodetic Survey Nautical Chart No. 229.

(See page 11)

49. NOTES FOR THE HYDROGRAPHER.

A number of temporary photo-hydro stations were selected in the Tampa Photogrammetric Office for use by the hydrographer. The stations selected and pricked on the photographs consist principally of lone trees, bushes, gables of buildings and the like. An effort was made to select stations about one-quarter of a mile apart; however, it was impossible in certain areas to prick any object whatsoever which could be positively recovered in the field. In small coves and inlets, wherever possible, photo-hydro stations were pricked at closer intervals in order that a fix might be obtained readily.

One topographic station that may be useful to the hydrographer is:

PORTSMOUTH WATER TANK (1943) 1953

The number and a brief description of each temporary photo-hydro station follows:

NUMBER	DESCRIPTION
020	Large tree on southeast side of cove, about 30 m. inshore.
021 JIM	Center of bridge pier on north side of bridge, about 100 m. SW from NW end of bridge.
022 BAT	Center of bridge pier on south side of bridge, about 100 m. SW from NW end of bridge.
023 BADE	SE end of pier
044 YEL	Lone tree, about 5 m. north of shoreline, on south side of island.
045 VAT	Center of south end of pier, the center one of three piers.
057	The SW of two trees on north side of stream.
058 PUP	NE corner of pier.
059 PAT	NE corner of pier.
060 LOW	Lone tree near center of clearing about 5 m. inshore.

Distances to shoreline were estimated before the fringing marsh was added during final compilation. (LTS)

49. NOTES FOR THE HYDROGRAPHER.(CONTINUED)

NUMBER	DESCRIPTION
.061	Lone tree in cleared area, about 40 m. north of shoreline.
.062	Large lone tree, on south side of inlet.
.063 MAY	Lone tree on north side of causeway.
.064 ARK	NE corner of pier.
.065	West gable of building.
.066 PAL	East gable of building near shore.
067	Lone tree on extreme point of land.
.079 SAY	Center of offshore end of pier.
.080 RYE	Bush, the center one of three, on round point.
.101	Small bush.
.103 ITS	SW gable of building.
.104 SOX	SW gable of building.
.105 SEA	NE corner of seawall.
.106 LAD	North gable of building, about 20 m. inshore.
.107	North gable of large "L" shaped building.
.108	North gable of building, at SW side of small inlet.
.109 KEG	Large tree, on extreme north tip of point.
.110	Center of roof of small building, in cleared area, about 25 m. inshore.
.111 LIX	Center of bridge pier, on south side of bridge, about 40 m. from south shore.
.112 DAN	Lone tree in cleared area, about 5 m. inshore.
.113 LOT	NE corner of pier. (Dover pt)
.114. BUG	Chimney in center of gable roofed house.
.115	Large tree, the most southerly tree in row, at waters edge.

49. NOTES FOR THE HYDROGRAPHER. (CONTINUED)

NUMBER	DESCRIPTION
116 WAT	Largest and tallest tree on rounded point, at waters edge.
117	Lone small tree, in SE side of cove, about 50 m. inshore.
118	A bush, the most northeasterly of two bushes, at waters edge.
119 FLY	Lone tree, about 10 m. north of shoreline, about 25 m. west of north-south row of trees.
120	Lone tree, just west of marsh line.
121	Lone tree, the most southerly of a group of trees, and just east of marsh line.
122	Offshore end of center of pier.
123 DOT	Largest and tallest tree in area, at waters edge.
124	The most southerly of a group of 3 bushes, about 10 m. inshore. to marsh
125 ZED	Bush, about 10 m. north of group of trees, and about 5 m. inshore. to marsh
134 SON	Center of bridge pier, on north side of bridge, about 40 m. from south shore.
135 HER	Chimney, the most southwesterly of two, near center of roof.
136	Center of oil tank, the most northerly in area.
137 PIE	NE corner of "T" shaped pier.
138 RUM	NE corner of pier.
139 TAR	NE corner of pier
140 BOY	Large tree on point of land, about 5 m. inshore.
141 JOE	The most southeasterly of two trees, at waters edge, and NW of bush.

49. NOTES FOR THE HYDROGRAPHER.(CONTINUED)

NUMBER	DESCRIPTION
142	SE corner of fixed pier.
143 HIM	West gable of house with dormer windows.
144 GAB	SW gable of building at waters edge.
145	Large lone tree in open area, about 10 m. west of road and about 20 m. inshore.
146 YEL	The southwesterly of two trees, about 5 m. inshore.
147 BOB	Large lone tree in open area, at waters edge.
148 ~~FOX~~	The most westerly of 3 large trees on island. Frankfort Id
	→ Fox is a signal on same island (see P 49 Final Compil. Rept.)
150	Lone tree on NW side of cove, about 5 m. inshore.
151 OIL	Oil tank, on NE side of group of tanks.
152	Chimney, on west side of building, about 25 m. east of R. R.
153.	Large oil tank, standing alone, about 60 m. south of conveyors.
154 EAR	Lone oil tank, about 40 m. inshore.
155 FAT	Lone tree at edge of open area.
156	Chimney, in center of roof.
157	NW gable of house, on east side of small cove.
158 SAM	Lone tree on point of land, at waters edge.
159	NW corner of pier.
160	NW corner of pier.
161 ELM	Large lone tree, on small point of land.
162 BAN	The most southerly of two trees close together, about 10 m. inshore.
163 MAY	West gable of building, on SE side of cove, about 5 m. inshore.

49. NOTES FOR THE HYDROGRAPHER. (CONTINUED)

NUMBER	DESCRIPTION
164 VAL	Lone bush, about 10 m. inshore.
165	Lone tree, on south side of cove, in open area, about 15 m. inshore.
166	Lone tree, higher than surrounding bushes.
167	SE chimney on hip roof, about 75 m. inshore.
168	West gable of house, the most westerly building in group.
169	NE gable of house, the most northwesterly building in group.
170	Large tree, the most northwesterly of two trees, about 30 m. inshore.
171	Large lone tree, about 30 m. inshore.
172	Large lone tree, about 20 m. inshore.
173 FLY	NW corner of pier.
174 AXE	A tree, between a group of trees to the south and two trees to the north.
175	Large lone tree, in open area, about 10 m. inshore, on north side of cove.
176 DOC	NW corner of pier.
177	Center of north bridge tower.
178	Center of south bridge tower.
179	Lone tree, about 20 m. inshore, the most southwesterly of three trees in row.
180 TEN	Large lone tree, about 80 m. inshore.
181 BAR	Lone tree, about 15 m. inshore.
182 CON	SE corner of large building.
183 ESS	The most southeasterly of two oil tanks, about 50 m. inshore.

49. NOTES FOR THE HYDROGRAPHER. (CONTINUED)

NUMBER	DESCRIPTION
184 SUE	Center of transmission tower.
185	A lone bush about 15 m. east of 2 other bushes. W. Noble I.
186 NOD	A small tree, the northeasterly of 2 trees. Nobles I.
187	NE corner of pier.
188	East gable of house.
189	Lone bush in line with 3 small trees to the NE, in extreme north part of cove, about 20 m. inshore.
190	Lone bush, about 10 m. inshore.
191 HAT	Chimney on SE side of house.
192 ZIP	South gable of building, immediately west of shoreline and south of bridge.
193	NE gable of large building, about 15 m. inshore.
194	The most southerly of 2 trees, about 50 m. north of shoreline.
195	Lone tree, SE of row of trees and north of bush.
196	Chimney on NE side of building, first building NE of roundhouse.
197	SE gable of building, north of road.
198	Chimney near center of hip roof, about 10 m. east of sea wall.
199 KEN	NW corner of large building.
200 NED	NW gable of building, about 85 m. inshore.
201 VIC	The center one of 3 oil tanks, and the most westerly.
202	North corner of sea wall.
203	West gable of building.

North Mill Pond

49. NOTES FOR THE HYDROGRAPHER.(CONTINUED)

NUMBER	DESCRIPTION
208 TOW	Center of transmission tower, about 40 m. east of point.
209	South Side Spinney Creek. Cable crossing
210	North " " " " " "
211	Lone bush, at east edge of beach, about 5 m. inshore.

TIDE COMPUTATION

PROJECT NO. Ph- 114 T- 11143

Time and date of exposure 10:47 2 July 1952 Reference station PORTLAND, MAINE Mean range 6.4

Date of field inspection ________ Subordinate station DOVER POINT, NEW HAMPSHIRE Ratio of ranges 0.7

	Time h.	Time m.
High tide	06	01
Low tide	12	04
Duration of rise or fall	06	03

	Height feet	Height x Ratio of ranges
High tide	7.5	5.2
Low tide	1.3	0.9
Range of tide		4.3

	Time h.	Time m.
High tide at Ref. Sta.	06	01
Time difference	01	30
Corrected time at Subordinate station	07	31

	Time h.	Time m.
Low tide at Ref. Sta.	12	04
Time difference	01	30
Corrected time at Subordinate station	13	34

	h. m.		feet		feet	Photo. No.
Time ~~H. T. or~~ L. T.	13 34	Ht. ~~H. T. or~~ L. T.	0.9	Feature bares		DQW-9K-174
Required time	10 47	Tabular correction	2.0	Stage of tide above MLW		
Interval	02 47	Stage of tide above MLW	2.9	Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		

M-2617-12

Computed by R. A. Reece Checked by R. Dossett

11 ~~12~~

PRELIMINARY

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11143

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 M.M.S. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) J.G. 7. Photo hydro stations J.G. 8. Bench marks XX

9. Plotting of sextant fixes XX 10. Photogrammetric plot report J.G. 11. Detail points J.G.

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

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 XX 39. Forms J.G.

40. Jesse A. Giles — Reviewer; William A. Rasure — 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

DATA RECORD

T - 11143

Project No. (II): Ph-114(53) Quadrangle Name (IV):

Field Office (II): Newburyport, Mass. Chief of Party: E. H. Kirsch

Photogrammetric Office (III): Tampa, Fla. Officer-in-Charge: Ira R. Rubottom

Instructions dated (II) (III): 20 February 1953
13 March 1953
Supplement No. 1, - 28 March 1953
" No. 2, - 30 April 1953
" No. 3, - 6 May 1953

Copy filed in Division of Photogrammetry (IV)
Supplement No. 4, - 26 May 1953
" 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): Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV):

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): Reference Page 1 of Preliminary Report

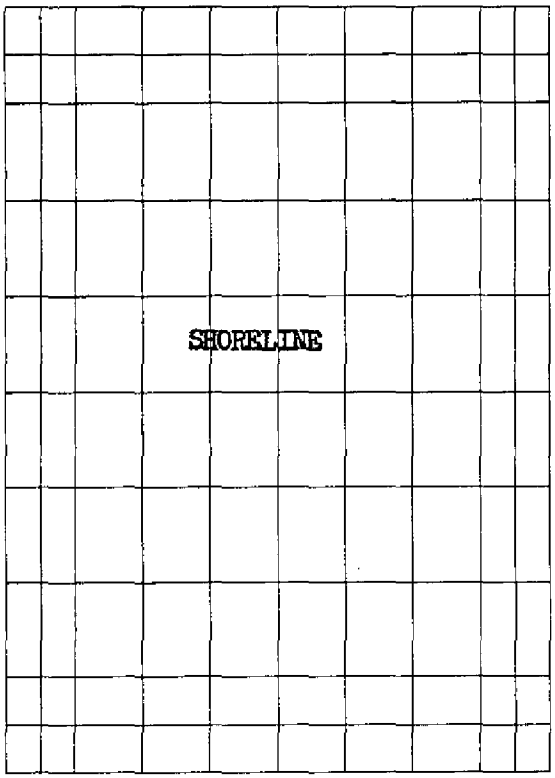
Lat.: Long.: Adjusted / Unadjusted

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.



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

DATA RECORD

Field Inspection by (II): NONE Date:

Planetable contouring by (II): Inapplicable Date:

Completion Surveys by (II): Date:

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

Projection and Grids ruled by (IV): Reference Preliminary Report Date:

Projection and Grids checked by (IV): " Date:

Control plotted by (III): " Date:

Control checked by (III): " Date:

Radial Plot or Stereoscopic Control extension by (III): " Date:

Stereoscopic Instrument compilation (III): Planimetry Inapplicable Date:

Contours Date:

Manuscript delineated by (III): R. A. Reece Date: 29 Jan. 1954

Photogrammetric Office Review by (III): J. A. Giles Date: 5 Feb. 1954

Elevations on Manuscript checked by (V) (III): Inapplicable Date:

21 A

Camera (kind or source) (III): Reference Preliminary Report

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide

Reference Preliminary Report

Tide (III)

Reference Preliminary Report

Ratio of Ranges	Mean Range	Spring Range

Reference Station:
Subordinate Station:
Subordinate Station:

Washington Office Review by (IV): Lena T. Stevens Date: 9 Dec. 1955

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 12

Shoreline ~~(More than 200 meters to opposite shore)~~ (III): Reference Preliminary Report

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): - Recovered: - Identified: -

Number of BMs searched for (II): - Recovered: - Identified: -

Number of Recoverable Photo Stations established (III): 1

Number of Temporary Photo Hydro Stations established (III): 159*

Remarks:

* Forty-three (43) are additional stations identified and located by the field party. See preliminary report bound herewith

COMPILATION REPORT T-11143

PHOTOGRAMMETRIC PLOT REPORT

*This report will be submitted separately.
* Filed as a part of Report T-11146

31. DELINEATION.

Reference Item 31 of the Preliminary Report.

Only those features that could be clearly seen on the photographs have been delineated.

Shoreline in the Portsmouth area, latitude 43° 05'.3, longitude 70° 46'.4, was transferred without change from a film positive (reduced from 1:5,000) of Survey No. T-11168 (1953), scale 1:10,000. This shoreline is in good agreement with topographic map manuscript T-8531 (1944), scale 1:20,000. It will be noted that the apparent shoreline elsewhere, as now shown with red acetate ink, conforms in most instances with the dashed line on the preliminary compilation. The position of the shoreline (in red) was so delineated on advice from a member of the hydrographic party which worked in the area.

32. CONTROL.

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA.

None.

34. CONTOURS AND DRAINAGE.

Contours are inapplicable. The drainage has been delineated from interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS.

Reference Item 35 of the Preliminary Report. The areas described in paragraph one have been almost without exception delineated as marsh as a result of information from the field.

The low-water line shown in ink was transferred from the film positive covering the southeast corner of the manuscript, and from office inspection and interpretation of photographs. Other low-water lines are shown in red pencil. These lines, transferred from the boat sheets, are incomplete and could not be completed because there are no features on the photographs that will confirm their positions. These lines, however, are left for the use of the processing office.

36. OFFSHORE DETAILS.

Only those features discernible on the photographs have been shown.

37. LANDMARKS AND AIDS.

Reference Item 37 of the Preliminary Report.

38. CONTROL FOR FUTURE SURVEYS.

Reference Item 38 of the Preliminary Report.

Forty-three (43) more photo-hydro stations were identified on the photographs and cut in radially on the manuscript by the field party. They have been listed with short descriptions under Item 49. These stations were all recut in the compilation office and checked with the field position with the exception of WHITE HOUSE SPIRE and GABLE SHINGLE BOAT HOUSE. Both stations differed by 0.4 mm. The compilation office position is shown in black and the field position in red.

39. JUNCTIONS.

Reference Item 39 of the Preliminary Report.

40. HORIZONTAL AND VERTICAL ACCURACY.

Refer to Photogrammetric Plot Report relative to horizontal accuracy.

41. CABLE CROSSINGS.

Reference Item 41 of the Preliminary Report.

Notice to Mariners No. 42, October 16, 1953, gives the vertical clearance of cables across Portsmouth Harbor, Piscataqua River and the entrance to Little Bay.

42. BOUNDARIES.

The State Boundary line between Maine and New Hampshire was taken from USC&GS Survey T-8531 (1944).

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with the map manuscript for USC&GS Topographic Survey T-8531 (1944), scale 1:20,000; and with Corps of Engineers PORTSMOUTH Quadrangle, scale 1:25,000, 1944 edition. The maps are in good agreement.

47. COMPARISON WITH NAUTICAL CHARTS.

Reference Item 47 of the Preliminary Report.

Comparison shows that most of the topography for the nautical charts came from the maps listed under Item 46 and the same differences exist.

Richard A. Reece
Carto Photo Aid

APPROVED AND FORWARDED:

Ira R. Rubottom, Chief of Party

48. GEOGRAPHIC NAME LIST.

The following names were taken from the Corps of Engineers PORTSMOUTH quadrangle:

ADAMS POINT
ADINGTON HILL
ATLANTIC HEIGHTS

ADINGTON CR. (both names = Adlington)

BADGERS ISLAND
BOSTON & MAIN RAILROAD
BROAD COVE
BROWN HILL

CHURCH OF ISRAEL

DOVER POINT
DURHAM POINT

ELIOT

FABYAN POINT
FOOTMAN ISLANDS
FRANKFORT ISLAND
FOX POINT
FOX POINT ROAD
FREEMANS POINT
FURBER STRAIT

GENERAL SULLIVAN BRIDGE
GOAT ISLAND
GOSLING ROAD
GREAT BAY
GREEN ACRE

HAVEN SCHOOL
HEN ISLAND
HERODS COVE
HOYT HILL

KITTERY
KITTERY JUNCTION
KNIGHT BROOK
LITTLE BAY

48. GEOGRAPHIC NAME LIST (CONTINUED)

MAINE
MAINE 103
MAINE - NEW HAMPSHIRE BRIDGE
MAST COVE
MEMORIAL BRIDGE

NANNIE ISLAND
NEW HAMPSHIRE
NEW HAMPSHIRE 16 (HIGHWAY)
NEW HAMPSHIRE 151 "
NEWINGTON ROAD
NEWINGTON STATION
NOBLES ISLAND
NORTH CHURCH
NORTH MILL POND

OYSTER RIVER

PEVERLY BROOK
PISCATAQUA
PISCATAQUA RIVER
PORTSMOUTH
PORTSMOUTH HIGH SCHOOL
PORTSMOUTH HOSPITAL

ROLLINS FARM

SOUTH CHURCH
SOUTH MILL POND
SOUTH STREET CEMETERY
SPINNEY CREEK
ST JOHNS CHURCH
ST PATRICKS CHURCH
SWAN ISLAND

THE FRIENDLY CHURCH
THOMAS POINT
TOBEY CORNER

U S 1
U S 4
UNION CEMETERY

WELSH COVE
WENTWORTH ACRES
WHIPPLE SCHOOL
WOODMAN POINT

Woodbury School

Names approved
12-7-55
L. Heck

49. NOTES FOR THE HYDROGRAPHER.

The following photo-hydro stations were identified in the field and are in addition to those identified in the compilation office. See Preliminary Report.

WIT - Northeast gable of house
RUB - Center of rock pile
JUT - Birch tree
LED - Point of rock
SIN - Chimney
TOP - Base square church steeple
OAK - Down River Boathouse Gable
LID - Gable small boathouse (Green Acres)
TOM - Lone small cedar on ridge " "
PAR - Center of large pine
FOX - Signal (Frankfort Id.)
DOG - Lone rock
ACE - Lone bush
DUD - Point of grass
FUR - Northwest gable of brown house
WAX-WAY - Chimney center picnic shelter
DOT-~~DOT~~ - Center of birch tree on point (LOT = #113, NE cor. of pier)
MOO - Southeast corner of rock (Dover Pt)
HAY - Gable grey barn (2 windows in end) (S. of Brown Hill)
CUB - Cupola red barn (Browns Hill)
TOM - Point of grass (Nannie Id)
MAL - Small cedar - southerly of 3 at HWL
NIC - Cupola largest barn
PIL - Center white lumber pier
DAR - Lone cedar
CAP - Tall lone cedar at HWL
NEL - Birch tree By ho. gable (H-8093)
PAR - Large lone pine on point
MEL - Pine tree
ERG - Gable barn cupola
SAP - White signal in bush (Goat Id)
WAX - West gable of house (Adams Pt)
EDD - Center of ~~lone bush~~ apple Tree (H-8093)
MAC - Three-foot cedar on rock island
LIN - Northwest corner of duck blind (Footman Ids)
SAM - Center of three (3) cedars (Woodman Pt)
WAR - Center Transm. Tower (North Mill Pond)
MUD - Gable of house (near N. end Me-N.H. bridge)
- West gable of barn (E. of Welsh Cove)
- Rock farthest offshore (Mast Cove)
- Gable shingle boathouse (Badgers Id)
- White house spire " "
- Lone spruce (Dover Pt.)

2943

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T. 11143

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 M.M.S. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) J.G. 7. Photo hydro stations J.G. 8. Bench marks XX 9. Plotting of sextant fixes XX 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 J.G. 16. Aids to navigation XX 17. Landmarks XX 18. Other alongshore physical features J.G. 19. Other alongshore cultural features J.G.

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines J.G. 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 XX 39. Forms J.G.

40. Jesse A. Giles — Reviewer

William A. Rasure — 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

Review Report T-11143
Shoreline Map
7 December 1955

61. General:

Stick-up was applied to the map manuscripts in this project as a part of the compilation process, i.e. prior to review. The map manuscripts at this phase are labeled "Advance Print."

These map manuscripts were not altered during review. Any additions, alterations, or deletions recommended by the reviewer were recorded on review correction overlays to be used by the drafting section for application of the recommended revisions on black-line impressions on vinylite. These positives on vinylite, with corrections applied, serve as the final map manuscripts.

The red shoreline on T-11143 represents alterations to the preliminary compilation. They were made in the compilation (prior to final review) from information received from the hydrographic party.

62. Comparison with Registered Surveys:

T-2375	1:10,000	1904 and 1912	Portsmouth Harbor
T-2511	1:10,000	1900 and 1909	Portsmouth to Bellamy R.
T-2903	1:10,000	1908	Oyster R. & parts of Great B and Little B.
T-2904	1:10,000	1908	Great Bay

Except for the low bluff symbol and the contours, T-11143 supersedes the older surveys for charting because of natural and cultural changes.

63. Comparison with Maps of Other Agencies:

USE Portsmouth, N.H., 1944 (compiled by C&GS as T-8532, 1944)

The maps are in general agreement except that T-11143 has a fringing marsh along much of the shoreline. T-11143 supersedes the quadrangle for charting shoreline and planimetry.

64. Comparison with Contemporary Hydrographic Surveys:

H-8090 (ECFP 5153)	1:5,000, 1953	Portsmouth Harbor
H-8092 (" 1553)	1:10,000, 1953	Maine-N.H. Bridge to Dover Point
H-8093 (" 1653)	1:10,000, 1953	Squamscott R, Lamprey R, Great Bay
H-8094 (" 1753)	1:10,000, 1953	Little Bay, Oyster R, Bellamy R, Piscataqua R. north of 43° 07'.

The shoreline of T-11143 was used on these surveys which located all foreshore features, aids and landmarks.

During review lines of piling visible on the photographs were added (by overlay) between hydro-stations PIE and RUM, opposite Frankfort Island. The mean high water line was altered in two coves at the north end of the Maine-N.H. bridge; and two piles and a rock were added north of Badgers Island.

The vertical clearance of the cable between stations TOW and SUE on H-8092 is the field inspection figure 154' (Ch Let 58, 1954) while the chart has 145', which corresponds to NM No. 42, 16 Oct. 1953 and to the authorized clearance figure.

65. Comparison with Nautical Charts:

229 1:30,000 Nov. 1914, corr. Jan. 1953

Except for the low bluff symbol and the contours, T-11143 supersedes the chart in its area.

66. Accuracy:

Interior delineation meets the National Standards of Accuracy. Shoreline is delineated as accurately as office interpretation permits.

Reviewed by:

Lena T. Stevens

Lena T. Stevens

APPROVED:

L C Lamb

Chief, Review Section
Photogrammetry Division

Max B Ricketts

Chief, Nautical Chart Branch
Charts Division

H H Swanson

Chief, Photogrammetry Division

14 Aug. 1958

H R Cahill

Chief, Coastal Surveys Division