

# 11144

Diag. Cht. No. 1206

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-1114 Office No. T-11144

### LOCALITY

State Maine - New Hampshire

General locality Portsmouth

Locality Godfreys Cove to Seavey Island

19452-53

### 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)

# 11144

PRELIMINARY  
DATA RECORD

T - 11144

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 ~~xxx~~ (III): **20 February 1953**

Copy filed in Division of  
Photogrammetry (IV)

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): **MAR 31 1953**

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): **4/8/58**

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): **N. A. 1927**

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

~~Unadjusted~~ 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): **KITTERY POINT BAPTIST CHURCH SPIRE, 1898**

Lat.: **43° 05' 08".571 (264.5 m.)**      Long.: **70° 41' 55".752 (1261.1 m.)**

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.

PRELIMINARY

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. R. Wagner**

Date: **2 Mar. 1953**

Control checked by (III): **R. E. Smith**

Date: **3 Mar. 1953**

Radial Plot ~~not stereoscopic~~  
~~contouring~~ by (III):

**M. M. Slavney**

Date: **13 Mar. 1953**

Stereoscopic Instrument compilation (III):

Planimetry

**Inapplicable**

Date:

Contours

Date:

Manuscript delineated by (III): **R. Dossett**

Date: **25 Mar. 1953**

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

Date: **26 Mar. 1953**

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

Date:

PRELIMINARY

Camera (kind or source) (III): **Single-lens**

Department of Agriculture  
(Mark Hurd Mapping Company)

Number	Date	Time	Scale	Stage of Tide
DQH-10K-21	2 July 1952	11:25	1:10,000	1.6 feet
" " -22	"	"	"	"
" " -23	"	"	"	"

*ply mouth Har.  
Spruce Creek*

Tide (III)

**FROM PREDICTED TIDES**  
**PORTLAND, MAINE**  
**KITTERY POINT, MAINE**

Reference Station:  
Subordinate Station:  
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
1.0	8.7	10.0

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):~~

Shoreline (~~More than 200 meters to opposite shore~~) (III): **6.9**

~~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): **19**

Remarks:

Summary to Accompany T-11144

Field instructions were issued for Ph-114 on 13 March 1953 to provide shoreline and control for inshore hydrographic surveys and to provide shoreline manuscripts for chart compilation. The hydrographic phase of this surveying was accomplished in the summer of 1953 under instructions for Project CS-355 (Plum Island Sound to Portsmouth Harbor) and CS-361 (Cape Porpoise Harbor). *Field Inspection report filed with T11148*

## PHOTOGRAMMETRIC PLOT REPORT.

### 21. AREA COVERED.

This photogrammetric plot was for Section C of Ph-114(53), which is comprised of shoreline maps T-11144, T-11159, T-11160 and T-11162 through T-11167. The <sup>Map</sup> covers the area from PORTSMOUTH HARBOR northwest along the Main coast to WOOD ISLAND.

The sketch on Page 4 of this report shows the arrangement of maps, the centers of photographs used, the identified control, and adjoining maps T-11143 of Section A, T-11147 of Section B, and T-11168. All references to photographs and control are referred to this sketch.

### 22. METHOD.

#### Radial Plot:

Map Manuscripts: -- The map projections are on vinylite at 1:10,000 scale with the polyconic projection in black, the Maine West Mercator Grid in red, and on T-11144 the New Hampshire Grid in blue. The manuscripts are 3'45" in latitude and 7'30" in longitude.

The various manuscripts junctioned exactly so they were used directly for laying the photogrammetric plot. All the control was plotted using dividers, beam compass, and meter bar. Positions were computed for plotting substitute stations more than 30 meters from the monumented control stations and/or more than one instrument set-up was used to locate the substitute station.

Photographs: -- The photographs used are single-lens taken with Camera J at three different negative scales. Photographs 53-J-140, 141, and 147 through 159 were contact prints from 1:10,000 scale negatives flown on 18 April 1953. Photographs 53-J-296, 297, and 298 were ratio prints from 1:20,000 scale negatives flown on 22 April 1953. The remaining photographs used were ratio prints from 1:16,850 scale negatives flown on 22 April 1953.

Photographs used were:

Contact prints: 53-J-140, 141, and 147 through 159

Ratio prints: 53-J-296, 297, and 298  
 53-J-318 through 333  
 53-J-335 through 352  
 53-J-355 through 387

Templets: -- Vinylite templets were made from all the photographs. Master templet N 390 was used to correct for distortion on the ratio prints, all of which had been made with the distortion plate in the enlarger.

Closure and adjustment to control: -- The photogrammetric plot and compilation of the western half of T-11144 had been completed as a part of Section A of Ph-114(53). The area of T-11168 had been compiled in the Washington Office by Kelsh Plotter at 1:5,000 scale and a 1:10,000 transparency furnished this office for junction. The positions of points from the plot for Ph-114(53) Section A, and T-11168 that could be identified on the photographs for this plot were plotted to insure a junction of the work.

A preliminary radial plot indicated that all control would be held.

The final radial plot was laid in two parts. Part one included T-11144, T-11162, T-11164, T-11165, T-11166, and T-11167. This plot was started with fixed templets in T-11144, T-11166, and T-11162 and then bridged. Part two was laid from fixed templets in T-11162, T-11163, and T-11159 and then bridged across T-11160.

On T-11165 and T-11167 where the ratio photographs fell along the shoreline, it seemed desirable to use the contact print "low water" photographs to supplement the cuts for hydro-signals. Consequently these were tied into the plot.

## 23. ADEQUACY OF CONTROL.

Forty-four (44) control stations were identified for this photogrammetric plot of which all but one were used. Substitute Station MISSION, 1953 (No. 6 on sketch) on T-11160 was not used because the position of the azimuth station, R-21, was not in this office; and there was sufficient positively identified control in the immediate area. All the control, including the two "doubtfully" identified stations, was held on this plot.

Control was adequate for a good plot.

## 24. SUPPLEMENTAL DATA.

None.

25. PHOTOGRAPHY.

Photographic coverage was adequate and definition and contrast were fair.

Tilt was observed on several of the photographs. Photograph 53-J-387, on T-11167, with  $4^{\circ} 51'$  of tilt was the most severely affected, and the only one computed. The iso-center of 53-J-387 is on the manuscript.

26. GENERAL.

Dates of completion of the photogrammetric plot are as follows:

T-11164 on 14 October 1953  
T-11166 on 15 October 1953  
T-11167 on 16 October 1953  
T-11164 and T-11165 on 19 October 1953  
T-11162 on 20 January 1954  
T-11163 on 21 January 1954  
T-11160 on 28 January 1954  
T-11159 on 2 February 1954

Respectfully submitted

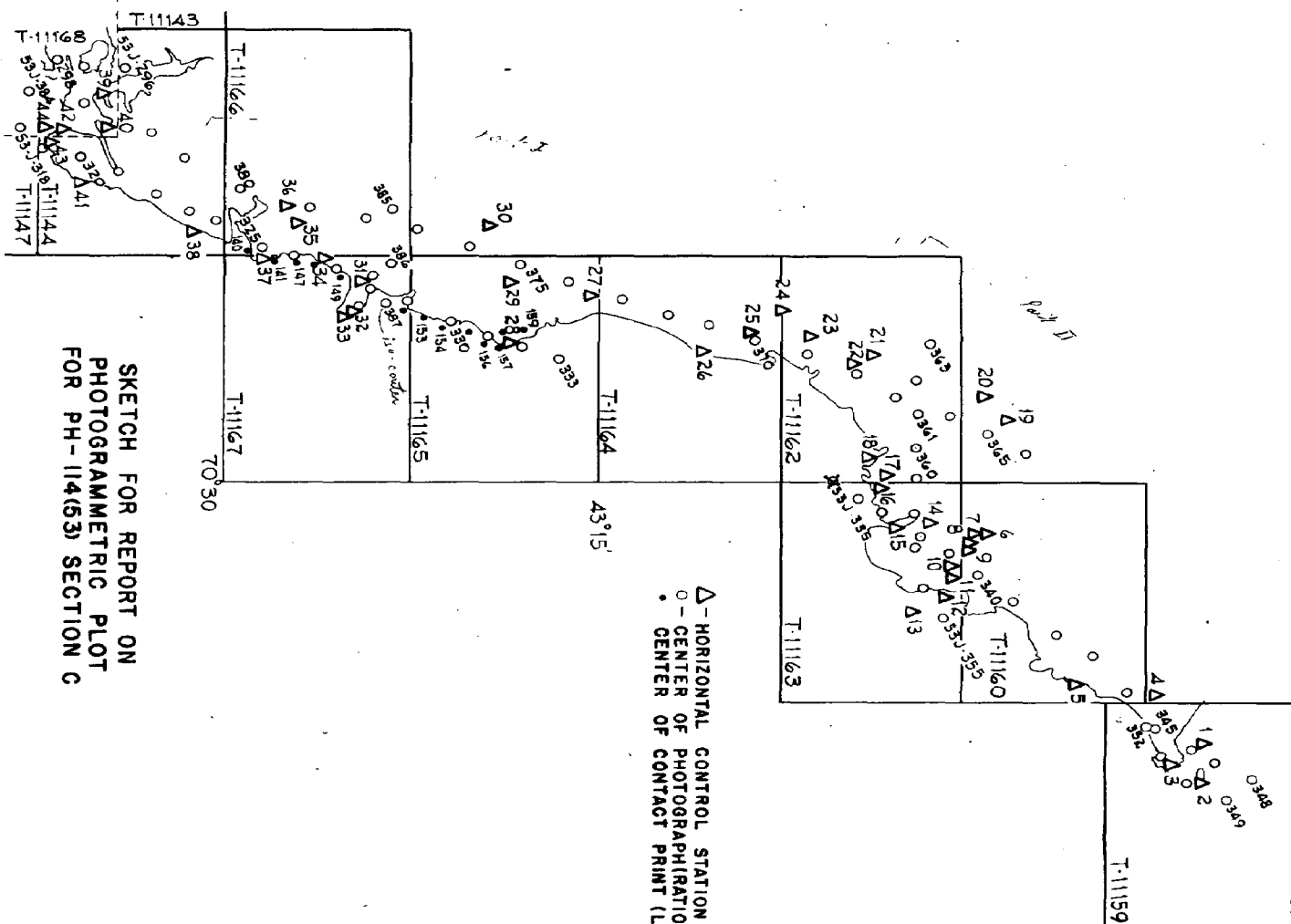
*Milton M. Slavney*

Milton M. Slavney  
Cartographer

APPROVED AND FORWARDED:

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





SKETCH FOR REPORT ON  
PHOTOGRAMMETRIC PLOT  
FOR PH-114(63) SECTION C

Δ - HORIZONTAL CONTROL STATION  
○ - CENTER OF PHOTOGRAPHIC PRINTS  
• - CENTER OF CONTACT PRINT (LOW WATER)

# INDEX OF CONTROL

1. STATE ISLAND MONUMENT, 1911
2. WOOD ISLAND LIGHTHOUSE, 1868
3. Sub. Sta. FLETCHERS NECK 156, 1911
4. FLETCHERS NECK WATER TANK, 1911
5. Sub. Sta. HOLT NECK 2, 1928
6. Sub. Sta. MISSION, 1953 (only sta. not used)
7. Sub. Sta. POWER, 1953
8. Sub. Sta. TRAVERSE STATION R-13, 1953 (temporary)
9. Sub. Sta. TRAVERSE STATION R-11, 1953 (temporary)
10. Sub. Sta. TRAVERSE STATION R-03, 1953 (temporary)
11. Sub. Sta. REDDEN, 1911
12. Sub. Sta. CAPE POBPOISE 155, 1911
13. GOAT ISLAND LIGHTHOUSE, 1903
14. KENNEBUNKPORT GETHOIX CHURCH SPIRE, 1851
15. BELLA WATER COURT CUPOLA, 1911
16. KENNEBUNK BEACH, ATLANTIS HOTEL ROOF, 1913
17. WENTWORTH CUPOLA, 1868
18. Sub. Sta. GELASFUS POINT 151, R. M. No. 2, 1911
19. KENNEBUNK UNITARIAN CHURCH SPIRE, 1851
20. KENNEBUNK MUNICIPAL STANDPIPE, 1911
21. Sub. Sta. COLES HILL, 1851
22. Sub. Sta. STATE POLICE RADIO TOWER, 1911
23. WELLS TOWN HALL TOWER, 1928
24. Sub. Sta. WEBBAND, 1913
25. WELLS FIRST CONGREGATIONAL CHURCH SPIRE, 1913
26. Sub. Sta. WOODY POINT 153, 1911
27. GUNQUITT STANDPIPE, 1911
28. BALDHEAD CLIFF HOUSE CUPOLA, 1903
29. Sub. Sta. AERO BEACON, 1911
30. Sub. Sta. ROCK, 1913
31. YORK BEACH UNION CONGREGATIONAL CHURCH SPIRE, 1913
32. Sub. Sta. CAPE NEPICK 151, 1911
33. CAPE NEPICK LIGHTHOUSE, 1903
34. YORK BEACH ANGELOWS HOTEL PLACOLE, 1913
35. Sub. Sta. HEIGHTS, 1913
36. YORK VILLAGE WHITE CHURCH SPIRE, 1908
37. Sub. Sta. COW POINT, 1913
38. Sub. Sta. COVE, 1913
39. KITTERY POINT CONGREGATIONAL CHURCH SPIRE, 1900
40. KITTERY POINT BAPTIST CHURCH SPIRE, 1896
41. Sub. Sta. SISTERS POINT, 1911
42. Sub. Sta. FALSE, 1900
43. Sub. Sta. HIGEE, 1911
44. WOOD ISLAND COAST GUARD CUPOLA, 1917

MAP T. 111144 PROJECT NO. Ph-11144(53) SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\nu$ -COORDINATE LONGITUDE OR $x$ -COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
					FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
NEW CASTLE CHURCH SPIRE, 1900	G.P.'s Pg 70	N.A. 1927	43 04	16.08				496.2 (1,355.4)			
			70 43	00.75				17.0 (1,340.5)			
KITTERY NAVY YARD TANK, 1943	Me. Pg 400	"	43 05	03.634				112.1 (1,739.5)			
			70 44	17.073				386.2 ( 971.0)			
PIERCES ISLAND, 1953	N.H. Pg 108	"	43 04	25.667				792.1 (1,059.5)			
			70 44	27.500				622.2 ( 735.2)			
PIERCES ISLAND, RANGE FRONT LIGHT, 1953	"	"	43 04	25.071				773.7 (1,077.9)			
			70 44	27.152				614.3 ( 743.1)			
PIERCES ISLAND, RANGE REAR LIGHT, 1953	"	"	43 04	24.894				768.2 (1083.4)			
			70 44	30.700				694.6 ( 662.8)			
CAMP LANGDON STANDPIPE, 1941	Me.-N.H. Pg 393	"	43 03	50.336				1,553.3 ( 298.2)			
			70 42	56.854				1,286.4 ( 71.2)			
CAMP LANGDON FLAGPOLE, 1941	"	"	43 03	52.185				1,610.4 ( 241.1)			
			70 42	53.126				1,202.1 ( 155.5)			
SISTERS POINT 149, 1941	G.P.'s Pg 83	"	43 04	31.933				985.4 ( 866.2)			
			70 40	06.835				154.6 (1,202.8)			
FALSE, 1900	" Pg 67	"	43 04	19.023				587.0 (1,264.6)			
			70 41	45.609				1,031.9 ( 325.6)			
COVE, 1943	" Pg 87	"	43 06	59.784				1,844.9 ( 6.7)			
			70 38	18.119				409.6 ( 946.9)			
HIGBEE, 1941	" Pg 392	"	43 03	54.917				1,694.7 ( 156.9)			
			70 41	18.283				413.7 ( 943.9)			

1 FT. = 3048006 METER

COMPUTED BY: M. M. Slavney

DATE 22 January 1954

CHECKED BY: R. A. Reese

DATE

25 January 1954

M-2388-12

00

SCALE FACTOR

[illegible]

**2 March 1953**



MAP T. 11160

PROJECT NO. Ph-114C(53)

SCALE OF MAP..... 1:10,000

SCALE FACTOR

[illegible]

1 FT. = 3048006 METER

COMPUTED BY: J. E. Johnson

DATE 30 October 1953

CHECKED BY: **M. M. Slavney**

DATE \_\_\_\_\_

30 October 1953

44-2388-12

MAP T. 11162

PROJECT NO. Ph-1116C(53)

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\psi$ -COORDINATE LONGITUDE OR $x$ -COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
COLES HILL, 1851	G.P.'s Pg 65	N.A. 1927	43	20	35.172				1,085.4 ( 766.2 )
			70	34	18.063				106.9 ( 944.6 )
STATE POLICE RADIO TOWER, 1941	G.P.'s Pg 397	"	43	20	13.067				103.3 ( 1,448.4 )
			70	34	04.129	Red triangle on back Tower was dismantled			93.0 ( 1,258.6 )
KENNEBUNK ORTHO- DOX CHURCH SPIRE, 1851	G.P.'s Pg 82	"	43	23	12.575				388.1 ( 1,463.6 )
			70	32	15.021				338.1 ( 1,012.4 )
KENNEBUNK UNITAR- IAN CHURCH SPIRE, 1851	"	"	43	23	16.073				496.0 ( 1,355.6 )
			70	32	15.832				356.3 ( 994.1 )
KENNEBUNK MUNICI- PAL STANDPIPE, 1941	" Pg 397	"	43	22	54.786				1,690.8 ( 160.9 )
			70	32	55.558				1,250.7 ( 100.0 )
WELLS, TOWN HALL TOWER, 1943	" Pg 401	"	43	19	19.442				600.0 ( 1,251.6 )
			70	34	52.354				1,179.6 ( 172.3 )
WELLS CHURCH SPIRE, 1851	" Pg 82	"	43	19	34.405				1,061.7 ( 789.9 )
			70	34	39.933				899.7 ( 452.1 )
WENTWORTHS CUPOLA, 1868	" Pg 85	"	43	20	52.335				1,615.1 ( 236.5 )
			70	30	14.654				330.1 ( 1,021.3 )
GELASPUS POINT 154, 1941	" Pg 394	"	43	20	37.146				1,146.4 ( 705.3 )
			70	30	48.912				1,101.7 ( 249.8 )
ELARKS HOUSE, SOUTH CHIMNEY, 1868	" Pg 85	"	43	20	13.798				425.8 ( 1,425.8 )
			70	33	05.620				126.6 ( 1,225.0 )

1 FT. = 3048006 METER

COMPUTED BY: R. A. Reece

DATE

22 September 1953

CHECKED BY:

M. M. Slavney

DATE

22 September 1953

M. 2388-12

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MAP T. 11163 PROJECT NO. Ph-11140(53) SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
BOOTHBY, 1851	G.P.'s Pg 80	N.A. 1927	43 20	53.466				1,650.0 (	201.6)	
			70 29	49.727				1,120.0 (	231.4)	
KENNEBUNK BRANCH, ATLANTIS HOTEL, ROOF, 1941	" Pg 401	"	43 20	45.870				1,415.6 (	436.0)	
			70 29	54.093				1,218.4 (	133.0)	
KENNEBUNK PORT PIER LIGHT, 1953	Field Comp	"	43 20	45.37				1,400.2 (	451.5)	
			70 28	35.43				798.0 (	553.4)	
CAPE PORPOISE 155, 1941	N.H. Pg 86	"	43 22	06.586				203.3 (1,648.4)		
			70 26	00.518				11.7 (1,339.3)		
REDDEN, 1941	" Pg 86	"	43 22	17.777				548.6 (1,303.0)		
			70 26	43.095				970.2 (	380.6)	
KENNEBUNK PORT BAPTIST CHURCH, SPIRE, 1851	Mains Pg 82	"	43 21	46.112				1,423.1 (	428.6)	
			70 28	34.826				784.2 (	566.9)	
KENNEBUNK PORT ORTHODOX CHURCH, SPIRE, 1851	" Pg 82	"	43 21	45.695				1,410.2 (	441.5)	
			70 28	41.302				930.0 (	421.0)	
GOAT ISLAND LIGHTHOUSE, 1903	" Pg 397	"	43 21	27.901				861.1 (	990.6)	
			70 25	32.262				726.5 (	624.6)	
CAPE PORPOISE CHURCH, SPIRE, 1941	" Pg 397	"	43 22	17.68				545.6 (1,306.0)		
			70 26	18.56				417.9 (	933.0)	
BREAKWATER COURT, CUPOLA, 1941	" Pg 397	"	43 29	50.34				1,553.5 (	298.1)	
			70 28	21.12				475.7 (	875.7)	
R-03 (TEMPORARY) 1953	Field Comp	"	196 053.7					1,053.7 (3,946.3)		
			424 078.6					4,478.6 (	521.4)	

1 FT. = 3048006 METER

COMPUTED BY R. A. Reece

DATE 22 September 1953

CHECKED BY M. M. Slavney

DATE

22 September 1953

M-2388-12

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[illegible]





SCALE FACTOR

# STATION

**SOURCE OF INFORMATION (INDEX)**

**DATUM**

LATITUDE OR  $y$ -COORDINATE  
LONGITUDE OR  $x$ -COORDINATE

DISTANCE FROM GRID IN FEET.  
OR PROJECTION LINE IN METERS

DATUM  
CORRECTION

N.A. 1927 - DATUM  
DISTANCE  
FROM GRID OR PROJECTION LINE  
IN METERS  
FORWARD (BACK

FACTOR DISTANCE  
FROM GRID OR PROJECTION LINE  
IN METERS

FORWARD (BACK)

**YORK VILLAGE,  
WHITE CHURCH,  
SPIRE, 1908**

G.P.'s Pg 75	N.A. 1927
-----------------	--------------

055.07 80 67

**HEIGHTS, 1943**

1.00

43	08	52.653
70	38	44.310

1 FT. = 3048006 METER

COMPUTED BY: I. I. Saperstein  
I.F.I. = 3048006 METER

DATE 25 August 1953

CHECKED BY: R. J. Pate

**25 August 1953**

M-2388-12



SCALE FACTOR

FACTOR DISTANCE  
FROM GRID OR PROJECTION LINE  
IN METERS

FORWARD (BACK)

511.9 (1,339.7)

861.1 ( 990.5)

971.3 ( 880.3)
489.5 ( 866.1)

669.2 (1,182.4)  
969.6 ( 385.6)

227.7 (1,623.9)

679.2 ( 172.4)

PRELIMINARY

COMPILATION REPORT T-11144

PHOTOGRAMMETRIC PLOT REPORT.

This report will be submitted at a later date.

31. DELINEATION.

The graphic method was used.

The photographs were of reasonably good scale.

There was insufficient photographic coverage to delineate the entire shoreline of SPRUCE CREEK. Part of the area delineated is weakly controlled. All details points established by the intersection of two radial lines only have been indicated with ticks.

32. CONTROL.

Sufficient pass points were located by the radial plot to control each photograph.

33. and 34.

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS.

The H.W.L. was located by stereoscopic study of the photographs and delineated accordingly. The limits of SPRUCE CREEK channel have been delineated as they appear on the photographs. The conventional symbol for depicting channels has been used.

All piers discernible on the photographs have been delineated.

36. OFFSHORE DETAILS.

Reference Item 49.

PRELIMINARY

37. LANDMARKS AND AIDS.

To be located by the hydrographer.

38. CONTROL FOR FUTURE SURVEYS.

The recoverable topographic stations (Form 524) on USC&GS Map Manuscript T-8532 are all outside the limits of photographic coverage.

There are nineteen (19) temporary photo-hydro stations. These are listed under Item 49.

39. JUNCTIONS.

The detail does not extend to the neat line in any direction to make junction except for Shoreline Sheet T-11186, scale 1:5,000 which is not available. 68

40. HORIZONTAL AND VERTICAL ACCURACY.

Reference Photogrammetric Plot Report relative to horizontal accuracy. *Filed in this report*

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with USC&GS Quadrangle T-8532, scale 1:20,000, ( ). *Kitter*

No outstanding differences were noted.

PRELIMINARY

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with USC&GS Nautical Chart No. 1206, scale 1:80,000, published October 1948, corrected to 14 July 1952. The shorelines are in good agreement. The larger scale chart (No. 329) does not cover the entire area of the shoreline being mapped.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.



Rudolph Dossett,  
Cartographic Photogrammetric Aid

APPROVED AND FORWARDED:

*William A. Rasur*  
for J. E. Waugh, Chief of Party

PRELIMINARY

48. GEOGRAPHIC NAME LIST.

Only the base map name SPRUCE CREEK has been shown. It was taken from USC&GS Nautical Chart No. 329.

PRELIMINARY

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, tanks, chimneys, transmission towers, piers 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.

and

Some areas which appear on the photographs/are shown on Quadrangle T-8532 as rocks have been delineated by a dashed line and so labeled. It is requested that the H.W.L., of such rocks as may require it, be located in the field since accurate determination of its position could not be arrived at by stereoscopic study.

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

<u>NUMBER</u>	<u>DESCRIPTION</u>
212	Lone tree on NE side of island, about 25 m. inshore.
213	Lone tree, the most westerly tree on island, about 5 m. inshore.
214	Chimney on NE gable of house, about 30 m. south of M.H.W.L.
215	South gable of building, about 70 m. inshore.
216	Lone bush, on waters edge, about 10 m. south of tree line, at SE side of cove.
217	Lone tree, on SE side of island, about 5 m. inshore.
218	NE corner of pier.
219	Large tree, north of line of trees and nearest one to shoreline.



PRELIMINARY

49. NOTES FOR THE HYDROGRAPHER. (CONTINUED)

<u>NUMBER</u>	<u>DESCRIPTION</u>
220	North gable of building, probably a green house, about 20 m. inshore.
221	Large lone tree, near point of land, about 15 m. south of M.H.W.L.
222	Largest, and center tree of three trees, on waters edge.
223	Lone tree, the most westerly tree on point, about 15 m. inshore.
224	West gable of house, about 45 m. north of M. H. W. L.
225	Lone tree, in cleared area, about 10 m. north of M. H. W. L.
226	Lone tree, on east side of cove, about 13 m. inshore.
227	Center of offshore end of pier.
228	Lone bush, near bend in creek, about 5 m. inshore.
229	Lone bush, in open area, about 20 m. SW of another bush.
230	Small lone tree, on SW side of cove, about 10 m. inshore.

## TIDE COMPUTATION

PRELIMINARY

PROJECT NO. Ph-114 T-111144

Time and date of exposure 11:25  
 Date of field inspection 2 July 1952  
 Reference station PORTLAND, MAINE  
 Subordinate station KITTEERY POINT, MAINE  
 Mean range 8.7  
 Ratio of ranges 1.0

	Time		Height feet	Height x Ratio of ranges	Range of tide
	h.	m.			
High tide	6	01	7.5	7.5	6.2
Low tide	12	04	1.3	1.3	
Duration of rise or fall	6 03				

	Time		High tide at Ref. Sta.	Time difference	Corrected time at Subordinate station
	h.	m.			
High tide	6	01			
Low tide	12	04			
Corrected time at Subordinate station	6	11			

	Time		Low tide at Ref. Sta.	Time difference	Corrected time at Subordinate station
	h.	m.			
Low tide	12	04			
Time difference	12	04			
Corrected time at Subordinate station	12	14			

	h.	m.	Height feet	Height x Ratio of ranges	Range of tide	h.	m.	feet	Photo. No.
Time <del>4/11/52</del> L. T.	12	14				12	14		
Required time	11	25	Ht. <del>4/11/52</del> L. T.			11	25	1.3	
Interval	0	49	Tabular correction			0	49	0.3	
			Stage of tide above MLW					1.6	
Time H. T. or L. T.			Ht. H. T. or L. T.						
Required time			Tabular correction						
Interval			Stage of tide above MLW						
Time H. T. or L. T.			Ht. H. T. or L. T.						
Required time			Tabular correction						
Interval			Stage of tide above MLW						
Time H. T. or L. T.			Ht. H. T. or L. T.						
Required time			Tabular correction						
Interval			Stage of tide above MLW						
Time H. T. or L. T.			Ht. H. T. or L. T.						
Required time			Tabular correction						
Interval			Stage of tide above MLW						
Time H. T. or L. T.			Ht. H. T. or L. T.						
Required time			Tabular correction						
Interval			Stage of tide above MLW						
Time H. T. or L. T.			Ht. H. T. or L. T.						
Required time			Tabular correction						
Interval			Stage of tide above MLW						
Time H. T. or L. T.			Ht. H. T. or L. T.						
Required time			Tabular correction						
Interval			Stage of tide above MLW						

M-2617-12

Computed by R. Dossett Checked by W. W. Dawsey

PRELIMINARY

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T.11144

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 along-shore 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 William A. Rasura  
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

## DATA RECORD

T - 11144

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**Copy filed in Division of  
Photogrammetry (IV)Suppl. No. 1 **28 March 1953**" No. 2 **30 April 1953**" No. 3 **6 May 1953**" 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): **MHW**~~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): **COVE, 1943**Lat.: **43°06'59".784 (1844.9m.)** ✓Long.: **70°38'18".119 (409.6m.)** ✓

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): **J. C. Lajoie**  
**H. R. Spies**  
**L. F. Beugnet**

Date: **March 1953**  
to  
**October 1953**

Planetable contouring by (II): **Inapplicable**

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): **Air Photo Compilation**  
**Office inspection only for Spruce Creek area. Atlantic shoreline from field**  
**inspection above.**

Projection and Grids ruled by (IV): **S. Rose (W.O.)**

Date: **14 February 1953**

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

Date: **16 February 1953**

Control plotted by (III): **R. R. Wagner - I. I. Saperstein**

Date: **27 July 1953**

Control checked by (III): **R. B. Smith - M. M. Slavney**

Date: **27 July 1953**

Radial Plot ~~or Stereoscopic~~

Date: **14 October 1953**

~~Control extension~~ by (III): **M. M. Slavney**

Planimetry  
Stereoscopic Instrument compilation (III): **Inapplicable**  
Contours

Date:

Date:

Manuscript delineated by (III): **R. Dossett**

Date: **28 January 1954**

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

Date: **19 February 1954**

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

Date:

Reference preliminary report data record  
Camera (kind or source) (III): USC&GS Fairchild Cartographic Camera J

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
<b>Reference Page 4, Preliminary Report</b>				
53-J-319-324, incl.	22 Apr. 1953	0951-0956, incl.	1:10,000	4.0 / 4.1 Atl. Ost
53-J-296-297, incl.	"	0926-0927, incl.	"	3.4 " Spruce Cr - Kitley
53-J-381-383, incl.	"	1049-1051, incl.	"	1.7 " Portsmouth Har

Tide (III)

Reference Preliminary Report

Reference Station:  
Subordinate Station:  
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

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): 6

Shoreline (More than 200 meters to opposite shore) (III): 52

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

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II): 34

Recovered: 10

Identified: 6

Number of BMs searched for (II): 0

Recovered: 0

Identified: 0

Number of Recoverable Photo Stations established (III): None

Number of Temporary Photo Hydro Stations established (III): 75

Remarks:

Reference to temporary photo-hydro stations:

Nineteen (19) applied as of preliminary report data record

Ten (10) applied from planetable sheet ECFP Aa 53

Forty-six (46) applied by field inspector

See Item 49 of this report.

COMPILATION REPORT T-11144

PHOTOGRAMMETRIC PLOT REPORT.

This report has been ~~submitted separately.~~ *filed with this report*

31. DELINEATION.

Reference Item 31 of preliminary report.

Since the preliminary report was written, additional photographs (See Data Record) have been received and applied to the radial plot. Two (2) of these, (53-J-296-297), cover the Spruce Creek-Kittery area; and while they enabled the compiler to obtain additional control, they are of poor scale and quality. The new control is weak in the northernmost areas of Spruce Creek, since only two (2) radial cuts were obtainable. Because of this weakness, the cultural delineation was not extended to the northern limits of the map manuscript, being terminated approximately three (3) inches south of the neat line.

The area from Chauncey Creek westward was delineated without field inspection. References were made to topographic manuscript T-8532, scale 1:20,000, compiled in 1943.

Shoreline south of latitude  $43^{\circ} 05' 09''$  and west of longitude  $70^{\circ} 41' 47''$  was transferred from a film positive of Survey No. T-11168 (1953), scale 1:10,000, which was reduced from the original scale of 1:5,000. The interior details have been taken from the photographs in the usual manner.

32. CONTROL.

Reference Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA.

Photographs were not available, at the time of the preliminary compilation, for the upper reaches of Spruce Creek. The shoreline and photo-hydro stations were located by the hydrographic party on planetable sheet ECFP Aa 53. Additional photographs were flown giving two cut intersections over most of the area. When applying the data from the planetable survey to the manuscript, it was noted that there was approximately 1.8mm discrepancy in azimuth. The shoreline and signals have been adjusted on the manuscript for this discrepancy. Also, numerous places have been corrected where the topographer was in error due to faulty sketching.



#### 34. CONTOURS AND DRAINAGE.

Contours inapplicable.

Drainage delineated according to photographic interpretation and field inspection.

#### 35. SHORELINE AND ALONGSHORE DETAILS.

Reference Item 35 of preliminary report for area not covered by field inspection (Item 31).

The shoreline and alongshore detail from Argo Point southwestward to Gerrish Island has been delineated according to field inspection notes and stereoscopic study of the photographs.

*Atl. Cst &  
Chauvin Cr.*

The low water-line as interpreted from the hydrographic sheet has been shown on the manuscript in red pencil. No corresponding lines were discernible on the photographs.

#### 36. OFFSHORE DETAILS.

Reference Item 36 of preliminary compilation report for details incorporating Spruce Creek area.

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 prints, including contact prints used by field inspectors for certain areas. Rocks were symbolized as awash or sunken as indicated by tide computations computed from inspection data submitted by the field inspector. Additional rocks not covered by the field inspector south of the map manuscript limits, but which are discernible on the photographs, have been shown. The rocks falling south of the neat line have been transferred to T-11147 and deleted from this manuscript.

#### 37. LANDMARKS AND AIDS.

Reference item 37 of preliminary report.

Form 567 submitted herewith for Stones Rock Daybeacon.

#### 38. CONTROL FOR FUTURE SURVEYS.

Reference Item 38 of preliminary report (first paragraph no longer applicable).

### 38. CONTROL FOR FUTURE SURVEYS. (CONTINUED)

Fifty-six (56) temporary photo-hydro stations, in addition to those referred to in Item 38 of the preliminary report, are listed under Item 49. A short description accompanies each, with the exception of thirteen (13) which fall on planetable sheet ECFP Aa 53.

No Forms 524 were submitted.

### 39. JUNCTIONS.

A satisfactory junction has been secured with T-11166 on the north, T-11143 on the west and T-11147 on the south. The Atlantic Ocean falls on the east.

### 40. HORIZONTAL AND VERTICAL ACCURACY.

Reference Item 40 of preliminary report and the supplement to the Photogrammetric Plot Report for Ph-1114A.

### 46. COMPARISON WITH EXISTING MAPS.

Reference Item 46 of preliminary report.

### 47. COMPARISON WITH NAUTICAL CHARTS.


Reference Item 47 of preliminary report.

### ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

### ITEMS TO BE CARRIED FORWARD.

None.

  
Rudolph Dossett  
Carto Photo Aid

APPROVED AND FORWARDED:

  
Ira R. Rubottom, Chief of Party

11

48. GEOGRAPHIC NAME LIST.

The following list of names supersedes the information given in Item 48 of the repliminary report:

ADMIRALTY VILLAGE

ARGO POINT

ATLANTIC OCEAN

Gulf of Maine (preferably  
in place of  
Atl. Ocean)

BEDELL CROSSING

BOATSWAIN HILL

BRAVE BOAT HARBOR

BRAVE BOAT HARBOR ROAD

CAMP LANGDON

CHAUNCEY CREEK

CHAUNCEY CREEK ROAD

CHICKERING CREEK

CLARKS ISLAND

CROCKETTS BROOK

CROCKETTS NECK

CUTTS ISLAND

EAST SISTER

FISHING ISLAND

FORT CONSTITUTION

FORT POINT

FOURTREE ISLAND

FRAME POINT

FRISBEE SCHOOL

FULLER BROOK

GERRISH ISLAND

GERRY COVE

GOAT ISLAND

GODFREYS COVE

GODFREYS POND

GOOSEBERRY ISLAND

HALEY ROAD

HENDERSON POINT

HICK ROCKS

HILL CREEK

HORN ISLAND

HUTCHINS CREEK

JAMAICA ISLAND

48. GEOGRAPHIC NAME LIST (CONTINUED)KITTERYKITTERY POINTLEACHS ISLANDLITTLE ISLANDMAINEMAINE 103NEW CASTLENEW CASTLE ISLANDNEW HAMPSHIREOAKLAND FARMPAYNES CROSSINGPEPPERELL COVEPEST ISLANDPIERCES ISLANDPOSCATAQUA RIVERPORTSMOUTH HARBORPOST ROADROGERS ROADSALAMANDER POINTSALTERS ISLANDSEABURY SWITCHSEAPPOINTSEAL HEAD POINTSEAVY ISLANDSHAPLEIGH ISLANDSHEPHERD HILLSHEPHERD HILL COVESISTERS POINTSPRUCE CREEKSQUASH ISLANDSTATE PRISONSTONES ROCKSULLIVAN POINTTRAP SCHOOL

(Seavey)

48. GEOGRAPHIC NAME LIST (CONTINUED)U. S. HIGHWAY NO. 1U. S. NAVY RESERVATIONWHITE ISLANDWHITE ISLAND REEFWILSON CREEKWOOD ISLAND

} to south of this sheet,  
on 11,147.

Names approved  
12-10-54.  
L. Heck

49. NOTES FOR THE HYDROGRAPHER.

Reference Item 49 of preliminary report.

In addition to the photo-hydro stations listed under Item 49 of the preliminary report, the following stations are listed for the benefit of the hydrographer:

STATIONS SUBMITTED BY FIELD INSPECTOR:

- 4401 - Chimney, east gable of cabin  
4402 - Westerly gable of shed  
4403 - Southwest gable of large white house with gray roof ZAG  
4404 - West corner of westerly of two piers AIM  
4405 - East corner of easterly of two piers NAY  
4406 - West corner of small pier FOE  
4407 - South gable of lobster house COO  
4408 - West gable of white house NUB  
4409 - Flagpole at west corner of pier PLY  
4410 - East corner of pier  
4411 - Brick chimney at south gable of white house with red roof  
4412 - West corner of pier  
4413 - Center of sun deck at apex of house roof  
4414 - North gable of white house  
4415 - Chimney at west gable of white cottage with gray trim  
4416 - Cupola at northeast corner of large house  
4417 - West gable of main part of large brown house with white trim  
4418 - East gable of white cottage  
4419 - Center of large stone chimney at northwest corner of house  
4420 - West gable of large white house with gray trim  
4421 - Center of end of rock wharf  
4422 - Northeast corner of pier  
4423 - Chimney of brown gambrel roofed house with cowshed dormer facing water gabled - gambrel ?  
4424 - Northeast gable of main part of house (lower wing to the northeast)  
4425 - East corner of bridge abutment  
4426 - Gable of southerly of two dormers at southwest corner of house  
4427 - North gable of building on pier RAM  
4428 - West gable of tar papered building  
4429 - East gable of tar papered building  
4430 - Center of concrete lookout tower POP LIMA  
4431 - Southerly gable of large yellow barn TAY  
4432 - Center of concrete lookout tower LUBEN LIMA  
4433 - Southwesterly chimney of cream colored house with red roof  
4437 - East corner of red tiled roofed house - 53-J-324  
4438 - Largest concrete chimney on abandoned Coast Guard Station - 53-J-324



49. NOTES FOR THE HYDROGRAPHER. (CONTINUED)

- 4439 - Red brick chimney on southwest end of center cottage of group of three - 53-J-323 ✓  
4440 - Center of low bush, southerly of two - 53-J-323 ✓  
4441 - Chimney on north gable of gray house with black roof - 53-J-323 ✓  
4442 - Southeast corner of rock walled house - 53-J-323 ✓  
4443 - Center of lone small cedar - 53-J-322  
4444 - Chimney in center of green roofed house with blue shutters - 53-J-322 ✓  
4445 - Southwest corner of rock ledge - 53-J-322 ✓

- 4-8092  
FIG - Cupola of Frisbee School  
BED - *Yellow flag over w. end old bridge*  
DOR - *Yellow flag over boulder*  
HAD - *Cupola on large barn*

STATIONS FROM PLANETABLE SHEET ECFP Aa 53

HUT  
SOD  
RIB  
NEW  
TAR  
ICE  
WOW  
NET  
GUY  
BUD

The descriptions for these stations were not submitted with the planetable sheet. *They are described on the planetable sheet and on the boat sheet.*

The signal names CAT and DEW appearing on the planetable sheet are synonymous with stations No. 221 and 219 applied photogrammetrically by this office.

**STRIKE OUT ONE**

Tampa Photogrammetric Office, Tampa, Fla., 8 February 1954

The positions given have been checked after listing by

**Rudolph Dessett, Carlo Photo Aid**

**Mr. E. E. E. E. E.**

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating*



# TIDE COMPUTATION

PROJECT NO. Ph. 114 T. 11144

Time and date of exposure  
 Date of field inspection 950 - 7/1/53  
 Reference station PORTLAND  
 Subordinate station GERRISH ISLAND WHARF  
 Mean range 8.7  
 Ratio of ranges 1.0

Time		Height		Height x Ratio of ranges	Time	
h.	m.	feet			h.	m.
High tide	14 14	9.3	9.3	-1.0	High tide at Ref. Sta.	14 09
Low tide	8 02	-1.0	-1.0		Time difference	4 05
Duration of rise or fall		Range of tide		10.3	Corrected time at Subordinate station	14 14
					Corrected time at Subordinate station	8 02

Time		Height		Height x Ratio of ranges	Time		Photo. No.
h.	m.	feet			h.	m.	
Time <del>XXXX</del> L. T.	8 02	Ht. <del>XXXX</del> L. T.	-1.0	Feature bares	High tide at Ref. Sta.	14 09	Bridge
Required time Interval	9 50	Tabular correction	2.1		Time difference	4 05	
Time H. T. or L. T.	1 48	Stage of tide above MLW	1.1	Feature bares	Corrected time at Subordinate station	14 14	
Required time Interval		Ht. H. T. or L. T.		Stage of tide above MLW			
Time H. T. or L. T.		Tabular correction		Feature bares			
Required time Interval		Stage of tide above MLW		Stage of tide above MLW			
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares			
Required time Interval		Tabular correction		Stage of tide above MLW			
Time H. T. or L. T.		Stage of tide above MLW		Feature bares			
Required time Interval		Ht. H. T. or L. T.		Stage of tide above MLW			
Time H. T. or L. T.		Tabular correction		Feature bares			
Required time Interval		Stage of tide above MLW		Stage of tide above MLW			
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares			
Required time Interval		Tabular correction		Stage of tide above MLW			
Time H. T. or L. T.		Stage of tide above MLW		Feature bares			
Required time Interval		Ht. H. T. or L. T.		Stage of tide above MLW			

# TIDE COMPUTATION

PROJECT NO. Ph-114 T-111144

Time and date of exposure 0926 4/22/53 Reference station PORTLAND Mean range 8.7  
 Date of field inspection Subordinate station KITTERY POINT Ratio of ranges 1.0

	Time		Height feet	Height x Ratio of ranges	Time h. m.
	h.	m.			
High tide	5	54	7.9	7.9	5 54
Low tide	12	23	0.8	0.8	12 23
Duration of rise or fall	6 29		7.1		6 04

	Time		Height feet	Height x Ratio of ranges	Time h. m.
	h.	m.			
High tide at Ref. Sta.	5	54	7.9	7.9	5 54
Time difference	12	23	0.8	0.8	12 23
Corrected time at Subordinate station	6 04		7.1		6 04

	Time		Height feet	Height x Ratio of ranges	Time h. m.
	h.	m.			
Low tide at Ref. Sta.	12	23	0.8	0.8	12 23
Time difference	12	23	0.8	0.8	12 23
Corrected time at Subordinate station	12 33		7.1		12 33

	h.	m.	Height feet	Height x Ratio of ranges	Time h. m.	Photo. No.
Time <del>0926</del> L. T.	12	33	Ht. <del>0926</del> L. T.			
Required time	9	26	Tabular correction			
Interval	3	07	Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			

150  
PHOTOGRAMMETRIC OFFICE REVIEW

T- 11144

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 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 J.G. 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 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 J.G. 39. Forms J.G.40. Jesse A. Giles William A. Rasura  
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

REVIEW REPORT T-11144 & T-11168  
SHORELINE MANUSCRIPT  
9 December 1954

61. GENERAL

Manuscript T-11168 is a 1:5000 scale map especially prepared for use by the hydrographer. It contains only photo-hydro points and shoreline with offshore details.

It covers a portion of the same area as T-11144, a shoreline manuscript of 1:10,000 scale.

Common detail between the two manuscripts is in complete agreement.

62. COMPARISON WITH REGISTERED SURVEYS

T-1050 & a 1:10,000 1867, 1912  
T-2375 & a 1:10,000 1898-99-1901, 1912

T-11144 supersedes the older surveys for charting the shoreline, adjacent culture, and planimetry.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

USE Kittery, Me., N. H. 1:25,000 1949

T-11144 supersedes the quadrangle for charting because of more detailed shoreline and more recent cultural data.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

H-8092 1:10,000 1953 (Boat Sheet ECFP 1553)

Only a print of the boat sheet was available during review. In the area of T-11144 hydrography was accomplished only at the southern tip of Gerrish Island, in Chauncey Creek, and in Spruce Creek. The shoreline in all these areas was from a preliminary compilation and it has been altered during the final compilation of T-11144 to agree with field inspection (Gerrish Island-Chauncey Creek) and from extra photographic coverage in the Spruce Creek area. No hydrography was done in the Portsmouth Harbor-Piscataqua.

The shoreline of Wood Island on T-11144 has been changed to agree with T-11168.

65. Comparison with Nautical Charts:

329 1:10,000 ed. June, 1954 Portsmouth Harbor

T-11144 supersedes the chart for shoreline and culture in their common areas. No field inspection and no hydrography was done in the Portsmouth Harbor-Piscataqua River area so that only self-evident off-shore features are delineated on T-11144. It is of necessity incomplete in this respect.

No cable areas appear on T-11144 because of this absence of field inspection.

Marine railways charted at the entrance to Spruce Creek are not in evidence on the 1953 photographs, though the one at Wood Island is still visible.

66. Bridges:

Only the two bridges over Chauncey Creek were measured during field inspection by the photogrammetric party. Clearances for three other bridges were added during review from data in Chart Letter No. 58, 1954.

67. Accuracy:

The horizontal control in the north portion of Spruce Creek was not all that was to be desired. However, it is believed that the map meets the National Standards of Accuracy.

The hydrographic stations established by the hydrographic party by planetable methods could not be held by the radial cuts and they were delineated on the manuscript in their radial positions rather than the planetable positions. See Plane Table Report for Project CS 355, Sheet ECFP-Aa-53.

However, because Spruce Creek is not a navigable stream the shoreline and planimetry are acceptable for interior charting.

Reviewed by:

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