11147

Diag. Cht. No. 1206

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-114(53) Office No. T-11147

LOCALITY

State New Hampshire

General locality New Castle

Locality Odiornes Point to Ragged Neck Point

1952-53

CHIEF OF PARTY

P.Taylor, Chief of Field Party
J. E. Waugh, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE November 10, 1959

B-1870-1 (1)

11147

DATA RECORD

T - 11147

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

Field Office (II): Newburyport, New Hampshire Chief of Party: Paul Taylor

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

Instructions dated (II) (III): 30 March 1953 (II)
20 February 1953 (III)

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): JUL 31 1953 Date reported to Nautical Chart Branch (IV): AUG 10 1953

Applied to Chart No. Date: Date registered (IV): 7/3/58

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): ODIORNES POINT 143, 1941

Lat.: 43° 02' 33".453 (1032.3 m.) Long.: 70° 42' 57".773 (1307.7 m.) Adjusted
~~Unadjusted~~

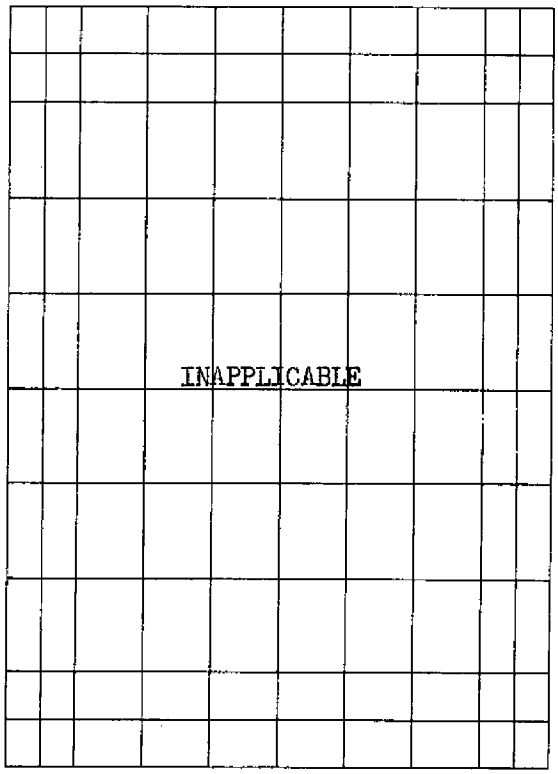
Plane Coordinates (IV): State: Zone:

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.

M-2618-12(4)



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

DATA RECORD

Field Inspection by (II): L. F. Bougnet — Date: May 1953

Planetable contouring by (II): Inapplicable — Date:

Completion Surveys by (II): Inapplicable — Date:

Mean High Water Location (III) (State date and method of location):
Air Photo Compilation - May 1953

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: 18 Feb. 1953

Control plotted by (III): I. I. Saperstein — Date: 26 May 1953

Control checked by (III): R. J. Pate — Date: 4 June 1953

Radial Plot ~~or Stereoscopic Control extension~~ by (III): M. M. Slavney — Date: 30 June 1953

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

Manuscript delineated by (III): R. R. Wagner — Date: 10 July 1953

Photogrammetric Office Review by (III): J. A. Giles — Date: 14 July 1953

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

M-2618-12(4)

Camera (kind or source) (III): Mark Hurd Mapping Company - DQW
Fairchild K-17 6" Metrogon Lens - J

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
DQW 10K-8 to 11	2 July 1952	Unknown	1:10,000	-
DQW 10K-24 to 27	"	"	"	-
53-J-227 to 233	18 Apr. 1953	"	"	-
53-J-299	22 Apr. 1953	928	"	3.9
53-J-300	"	928	"	"
53-J-301	"	928	"	"
53-J-302	"	928	"	"
53-J-303	"	930	"	"

Tide (III)

		HHW	Ratio of Ranges	Mean Range	Spring Range	Time
Reference Station:	PORTLAND			8.9	10.2	
Subordinate Station:	JAFFREY POINT	8.4	1.0	8.7	10.0	+0:05
Subordinate Station:						

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): 2.5
Shoreline (More than 200 meters to opposite shore) (III): 16 miles
Shoreline (Less than 200 meters to opposite shore) (III): 1 mile
Control Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): 21 Recovered: 14 Identified: 7
Number of BMs searched for (II): None Recovered: 0 Identified: 0
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): 9*

Remarks:

* Additional stations are to be located by field party.

Summary to Accompany T-11147

Field instructions were issued for Ph-114 on 13 March 1953, to provide shoreline and control for inshore topographic surveys and to provide standard 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).

PHOTOGRAMMETRIC PLOT REPORT.

21. AREA COVERED.

Photogrammetric Plot Number 1 of Ph-114B(53) was for the outside coast of T-11146 and maps T-11147 to T-11154 inclusive. The maps cover the area south from Portsmouth, New Hampshire Harbor to Ipswich Bay, Massachusetts.

The sketch on Page 5 of this report shows the arrangement of maps, the identified control, index of control, photograph centers and the adjoining maps of Plot Number 2 of Ph-114B(53) and Ph-114A(53) and T-11168.

22. METHOD.

Radial Plot:

Map Manuscripts: — The map projections are on acetate at 1:10,000 scale with the polyconic projection in black and the New Hampshire Grid and Massachusetts Mainland Grid in blue and red. The manuscripts are 3'45" in latitude and 7'30" in longitude.

The base grids used for laying the plot are vinylite with the 5,000 foot interval at 1:10,000 scale. The New Hampshire State Grid was on all the manuscripts so control was transferred to the base grids by matching grid values and adjusting the scale differences.

Photographs: — The photographs are single-lens, 1:10,000 scale. The "DQW" series were taken by Mark Hurd Mapping Company in July 1952; and the "DPP" series were taken by Robinson Aerial Surveys, Inc., in August and October 1952 for the Production and Marketing Administration of the Department of Agriculture. The "DQW" and "DPP" series were taken at 1:20,000 scale and enlarged. The "53J" series used in this plot were taken on 22 April 1953 at 1:24,000 scale by the Coast and Geodetic Survey with Camera "J". All the enlargements were made using the distortion plate in the Saltzman projector.

The "53J" series were received after the radial plot for T-11149 through T-11152 was completed and the maps were

being compiled. The radial plot for T-11146 (outer coast), T-11147 and T-11148 was in progress and the "53J" series was used on these manuscripts.

Templets: -- Vinylite templets were made from the photographs using the master templet furnished by the Washington Office for ratio prints made with the distortion plate.

Closure and adjustment to control: -- The pass points, photograph centers and control from the radial plot for adjoining maps in Ph-114A(53) were plotted on the base grids before starting this plot.

A preliminary radial plot disclosed that two "positively" identified control stations could not be held. Substitute Point 22E (M.G.S.) 1934, on T-11151, number 21 on sketch, gave a radial plot position of 0.5 mm (5 meters) north of the field position. Substitute Point Rye Ledge 139, 1941, on T-11148, number 39 on sketch, gave a radial plot position of 0.3 mm (3 meters) west of the field position. The number of "positively" identified control stations and the appearance of the plot in the vicinity of the two discrepancies appeared to justify proceeding with the final radial plot pending their field investigation.

The final radial plot was started with fixed templets in T-11150, T-11151 and T-11153 and proceeded conventionally to completion of T-11150 to T-11154. The plot was then run north from T-11151 through T-11149 and into T-11148. At this time, the "53J" series Coast and Geodetic Survey photographs were received and processed for use in the radial plot for T-11147 and T-11148. The plot for T-11147 and T-11148 was completed and junction was made with the pass points and photograph centers located on the radial plot for T-11146 as part of Ph-114A(53).

The radial plot for T-11154 was completed but permission of the Washington Office was received on 5 June 1953, reference 70-lmh, to defer compilation until the field work and subsequent radial plot for T-11155 is run.

A new substitute point for 22E (M.G.S.) 1934 was received from the field and failed to hold. Copies of the correspondence with the Washington Office pertaining to this station are included with this report.

A new substitute station for RYE LEDGE 139, 1941 was identified and was received from the field after the plot

was completed. When the geographic position was plotted after

[redacted]

Dates of completion of the radial plot are as follows:

T-11150 and T-11151	on 17 May 1953
T-11152	on 25 May 1953
T-11153 and T-11154	on 2 June 1953
T-11149	on 5 June 1953
T-11148	on 22 June 1953
T-11147	on 30 June 1953

Respectfully submitted,

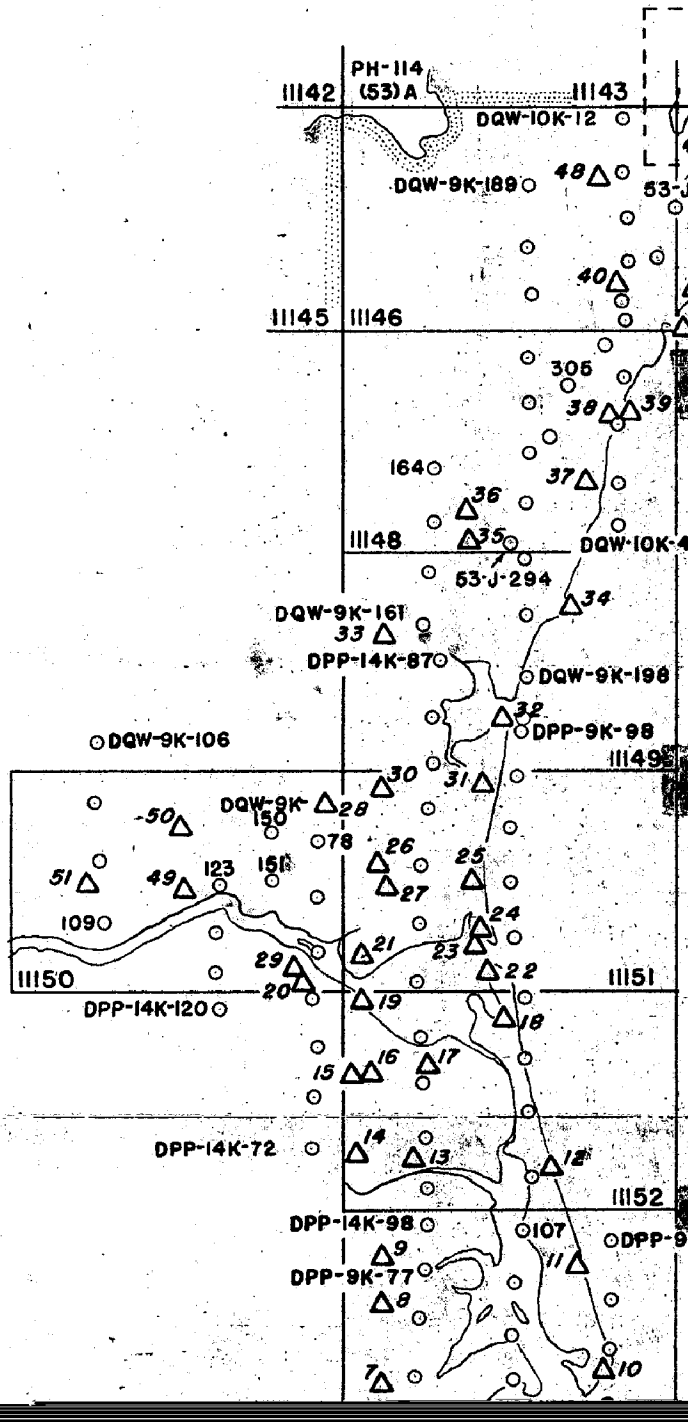
Milton M. Slavney

Milton M. Slavney,
Cartographer
Tampa Photogrammetric Office

APPROVED AND FORWARDED

J. E. Waugh

J. E. Waugh, Chief of Party



INDEX OF CONTROL

1. Sub.Pt. 22X (MGS) 1934
2. " 22V (MGS) 1934
3. " IPSWICH RM 2, 1936
4. CASTLE DOME, 1941
5. IPSWICH L.H. (CASTLE NECK L.H.) 1941
6. Sub.Pts. 1&2 CASTLE NECK, 1953
7. Sub.Pt. NEWBURY S.BASE, 1936 (MGS)
8. Sub.Pt. 22Q (MGS) 1934
9. " 22N (MGS) 1934
10. " A S.PLUM, 1943
11. PLUM ISLAND C.G.CUP.1943
12. Sub.Pt. C MID PLUM 1953
13. " OLD TOWN RM 1, 1850
14. " NEWBURY N. BASE 1936 (MGS)
15. NEWBURYPORT W.T. 1943
16. " CONG.CHURCH, 1886-9
17. " AERO BEACON, 1943
18. PLUM ISLAND CATH.CH.1928
19. NEWBURYPORT POWER PLANT STACK, 1943
20. NEWBURYPORT HIGH SCHOOL CUPOLA, 1943
21. Sub.Pt. 22E (MGS) 1934
22. NEWBURYPORT L.H. 1912
23. BUTLERS TOOTHPICK, 1889
24. Sub.Pt. SABE RM 1, 1935
25. SALISBURY BEACH, YELLOW CUPOLA, RED ROOF, 1928
26. Sub.Pt. 22B (MGS) 1934
27. SALISBURY CONGR.CH.1850
28. " STANDPIPE, 1928
29. NEWBURYPORT STANDPIPE, 1943
30. ATLANTIC W.T.1928
31. Sub.Pt. SALISBURY MARSH MONUMENT, 1834
32. Sub.Pt. ENTRANCE, 1928
33. HAMPTON FALLS CH.T.1850
34. GREAT BOARS HEAD STANDPIPE, 1917
35. HAMPTON BAP.CH.SPIRE 1850
36. " MUN. STANDPIPE, 1941
37. Sub.Pt. LITTLE BOAR, 1953
38. FARRAGUT HOTEL WEATHER VANE, 1943
39. Sub.Pt. RYE LEDGE 139, 1941
40. RYE ORTH.CH.SPIRE, 1850
41. OCEAN WAVE HOTEL CUPOLA 1898
42. Sub.Pt. RAGGED NECK, 1943
43. " PULPIT ROCK 142, 1941
44. " ODIORNES PT. 143, 1941
45. " FROST PT. 144, 1941
46. " STARK 145, 1941
47. WENTWORTH HOTEL, HIGHEST CUPOLA, OLD BUILDING, 1898
48. Sub.Pt. BEVERLY 1941
49. " 96C (MGS) 1934
50. " 96A (MGS) 1934
51. " BAUER (MGS) 1936

SKETCH FOR REPORT ON
PHOTOGRAMMETRIC PLOT NO. 1 OF PH-114(53)

△ HORIZONTAL CONTROL STATION
⊙ SINGLE LENS PHOTOGRAPH

Photogrammetry

MAP T- 11146 PROJECT NO. Ph-114B 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 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)
RTSMOUTH ANDPIPE, 1908	Conv. from G.P.	N.A. 1927	206,837.4	1,837.4 (3,162.6)			
			737,027.8	2,027.8 (2,972.2)			
VERLY, 1941	"	"	199,958.3	4,958.3 (41.7)			
			737,225.9	2,225.9 (2,774.1)			
E ORTHODOX URCH SPIRE,1850	"	"	187,517.2	2,517.2 (2,482.8)			
			738,902.4	3,902.4 (1,097.6)			

FT. = .3048006 METER M-2388-12

COMPUTED BY: M. M. Slavney DATE 8 June 1953 CHECKED BY R. E. Smith, Jr. DATE 8 June 1953

SCALE OF MAP 1:10,000 SCALE FACTOR

COORDINATE 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)
9.479				1,526.9	(324.7)		
9.282				210.2	(1,148.6)		
5.161				1,085.0	(766.5)		
5.813				810.4	(547.3)		
1.213				963.2	(888.3)		
8.515				1,097.8	(259.9)		
9.168				1,825.9	(25.7)		
0.164				230.1	(1,128.2)		
1.243				38.4	(1,813.2)		
7.867				630.7	(727.2)		
3.453				1,032.3	(819.2)		
7.773				1,307.7	(50.4)		
5.359				782.5	(1,069.0)		
8.695				1,101.9	(255.8)		
7.960				1,788.6	(63.0)		
8.277				187.4	(1,171.0)		
4.538				140.0	(1,711.5)		
7.132				841.1	(518.0)		
4.914				1,077.4	(774.1)		
7.076				1,065.6	(292.5)		
5.147				1,701.8	(149.8)		
4.158				320.4	(1,037.5)		
6.590				1,129.1	(722.4)		
0.497				463.8	(893.9)		

M-2388-12

53 CHECKED BY: R. E. Smith, Jr. DATE 22 May 1953

Photogrammetry

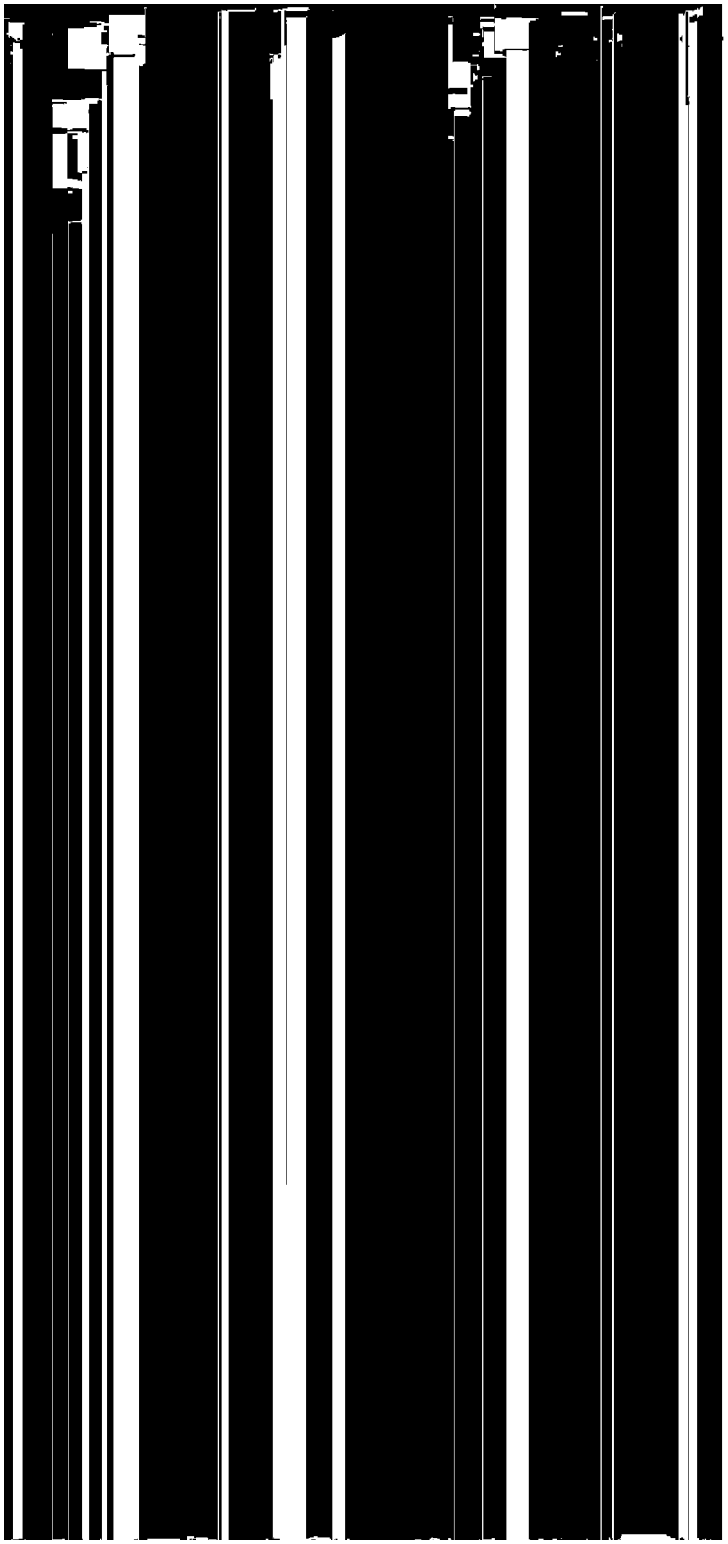
MAP T- 11147 PROJECT NO. Ph-111B SCALE OF MAP 1:10,000 SCALE FACTOR

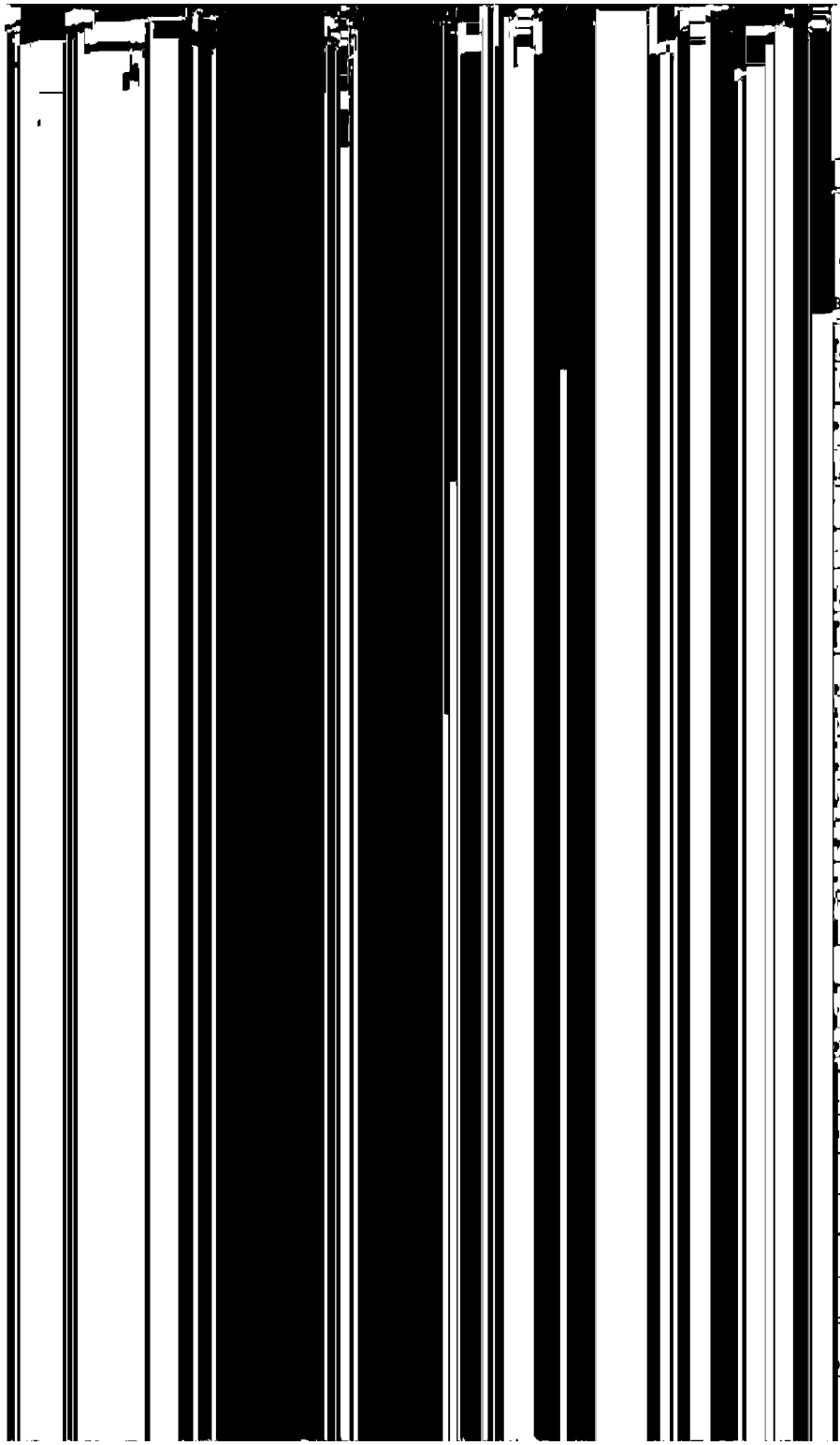
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
DEARBORN, 1943	G.P.'s Pg 88	N. A. 1927	43 02 35.305			1,089.5 (762.1)	
			70 42 45.608			1,032.3 (325.8)	
WENTWORTH HOTEL, CUPOLA, FLAGPOLE, 1941	" Pg 394	"	43 03 37.099			1,144.8 (706.7)	
			70 43 30.964			700.7 (657.0)	
JAFFREY POINT LIGHT, 1953	Field Pos.	"	43 03 17.177			530.1 (1,321.5)	
			70 42 50.520			1,143.3 (214.5)	
JAFFREY POINT DAYBEACON, 1953	"	"	43 03 17.417			537.5 (1,314.1)	
			70 42 50.413			1,140.8 (217.0)	

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: I. I. Saperstein DATE 21 May 1953 CHECKED BY: R. E. Smith, Jr. DATE 22 May 1953





Photogrammetry

FACTOR .....

UM ON LINE (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
4.9)		
6.8)		
7.0)		
4.0)		
3.6)		
7.7)		
6.6)		
6.8)		
6.6)		
6.6)		
8.1)		
4.7)		
2.8)		
7.1)		
8.2)		
1.3)		
7.0)		
9.6)		

M-2388-12

2 May 1953 .....

NO. Ph-114B SCALE OF MAP 1:10,000 SCALE FACTOR

ATITUDE OR y-COORDINATE NGITUDE 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)
.2 48 54.091			1,669.1 (182.3)	
0 49 10.165			230.9 (1,132.2)	
42 52 18.111			558.9 (1,292.6)	
70 49 14.646			332.4 (1,029.4)	
42 50 56.889			1,755.5 (96.0)	
70 49 07.052			160.1 (1,202.2)	
42 50 33.413			1,031.1 (820.4)	
70 51 38.960			884.7 (477.8)	
42 52 15.761			486.4 (1,365.1)	
70 51 47.320			1,074.1 (287.8)	
42 48 54.056			1,668.1 (183.4)	
70 49 08.631			196.1 (1,167.1)	
42 49 25.654			791.6 (1,059.8)	
70 49 20.698			470.2 (892.7)	
42 49 13.568			418.7 (1,432.8)	
70 49 38.698			879.1 (483.9)	
42 50 43.910			1,355.0 (496.5)	
70 49 01.292			29.3 (1,333.1)	
42 50 36.27			1,119.2 (732.3)	
70 49 00.69			15.7 (1,346.8)	
42 52 07.349			226.8 (1,624.7)	
70 51 50.879			1,154.9 (207.0)	
42 50 58.755			1,813.1 (38.4)	
70 51 57.310			1,301.3 (61.1)	

30 April 1953 CHECKED BY: M. M. Slavney DATE 7 May 1953

Photogrammetry

MAP T-11151 PROJECT NO. Ph-114B 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 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)
22C (MGS) 1934	M.G.S. Pg 15	N.A. 1927	42 50 30.581			943.7 (907.8)	
			70 51 59.795			1,357.9 (4.7)	
22E (MGS) 1934	" Pg 17	"	42 49 32.584			1,005.5 (846.0)	
			70 52 04.594			104.4 (1,258.5)	
22F (MGS) 1934	" Pg 18	"	42 49 16.426			506.9 (1,344.6)	
			70 52 08.372			190.2 (1,172.8)	
22G (MGS) 1934	" Pg 19	"	42 48 52.781			1,628.7 (222.8)	
			70 52 29.858			678.3 (684.8)	
NORTH PIER DAYBEACON, 1953	Field Comp.	"	42 48 48.718			1,503.3 (348.1)	
			70 51 28.470			646.8 (716.3)	
MERRIMAC RIVER ENTRANCE LEADING LIGHT, 1953	"	"	42 49 26.892			829.8 (1,021.6)	
			70 49 23.764			539.8 (823.1)	
RINGS ID, 1953	"	"	42 48 53.737			1,658.2 (193.3)	
			70 51 55.415			1,259.0 (104.2)	

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: I. I. Saperstein DATE 5 May 1953 CHECKED BY: M. M. Slavney DATE 7 May 1953

Photogrammetry

MAP T-11152 PROJECT NO. Ph-114B 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 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)
MID PLUM, 1953	Field Comp.	N.A. 1927	42 46 01.960 70 48 12.873			60.5 (1,790.9) 292.7 (1,071.5)	
NEWBURYPORT, CONGREGATIONAL CHURCH, 1886-9	G.P.'s Pg 551	"	42 47 57.554 70 51 47.605			1,776.0 (75.5) 1,081.8 (281.7)	
OLD TOWN, 1850	" Pg 123	"	42 46 07.008 70 51 00.897			216.2 (1,635.2) 20.4 (1,343.7)	
PLUM ISLAND CATHOLIC CHURCH, 1928	" Pg 842	"	42 48 23.380 70 48 38.745			721.5 (1,130.0) 889.4 (483.0)	
NEWBURY NORTH BASE (MGS) 1936	" Pg 125	"	42 45 55.186 70 52 10.247			1,702.9 (148.5) 233.0 (1,131.2)	
NEWBURYPORT WATER TANK, 1943	" Pg 399	"	42 48 04.724 70 52 08.421			145.8 (1,705.7) 191.4 (1,172.1)	
NEWBURYPORT AERO BEACON, 1943	" Pg 399	"	42 47 44.772 70 50 29.988			1,381.6 (469.9) 681.5 (682.1)	
NEWBURYPORT POWER PLANT STACK, 1943	" Pg 399	"	42 48 40.222 70 51 51.306			1,241.2 (610.3) 1,165.7 (197.5)	
NEWBURYPORT, PLEASANT ST. UNITARIAN CHURCH SPIRE, 1850	" Pg 529	"	42 48 37.837 70 52 19.193			1,167.6 (683.9) 436.1 (927.1)	
NEWBURYPORT, NORTH CHURCH, 1886	" Pg 571	"	42 48 40.130 70 52 28.053			1,238.3 (613.1) 637.4 (725.8)	
22M (MGS) 1934	M.G.S. Pg 24	"	42 45 59.706 70 52 11.842			1,842.3 (9.1) 269.2 (1,094.9)	
NEWBURYPORT UPPER HARBOR OUTER RANGE LIGHT 1953	Field 3rd Order Triang.	"	42 48 41.160 70 51 55.218			1,270.1 (581.4) 1,254.6 (108.6)	

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: I. I. Saperstein DATE 27 April 1953 CHECKED BY: R. J. Pate DATE 27 April 1953

Photogrammetry

MAP T- 11152 PROJECT NO. Ph-114B 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 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)
NEWBURYPORT UPPER HARBOR INNER RANGE LIGHT, 1953	Field 3rd Order Triang.	N.A. 1927	42 48 40.156 70 51 59.678			1,239.1 (612.3) 1,355.9 (7.3)	

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: R. E. Smith DATE 17 June 1953 CHECKED BY: M. M. Slayney DATE 17 June 1953

Photogrammetry

MAP T- 11153 PROJECT NO. Ph-114B 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 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)
NEWBURY SOUTH BASE, 1936 (MGS)	G.P.'s Pg 123	N.A. 1927	42 41 50.306			1,552.3 (299.1)	
			70 51 06.622			150.7 (1,215.0)	
PLUM ISLAND COAST GUARD CUPOLA, 1943	" Pg 399	"	42 44 16.010			494.0 (1,357.4)	
			70 47 20.717			471.2 (893.6)	
SOUTH PLUM, 1943	" Pg 399	"	42 42 14.383			443.8 (1,407.6)	
			70 46 20.503			466.6 (899.0)	
CASTLE HILL 137, 1941	" Pg 358	"	42 41 24.474			755.2 (1,096.2)	
			70 46 35.644			811.4 (554.5)	
22N (MGS) 1934	M.G.S. Pg 25	"	633,422.13	3,422.13 (1,577.87)			
			771,353.24	1,353.24 (3,646.76)			
22P (MGS) 1934	" Pg 26	"	630,283.29	283.29 (4,716.71)			
			772,046.40	2,046.40 (2,953.60)			
22Q (MGS) 1934	" Pg 27	"	628,191.99	3,191.99 (1,808.01)			
			772,408.28	2,408.28 (2,591.72)			
22R (MGS) 1934	" Pg 28	"	618,509.10	3,509.10 (1,490.90)			
			774,403.75	4,403.75 (596.25)			
22S (MGS) 1934	" Pg 30	"	42 41 15.315			472.6 (1,378.8)	
			70 50 52.689			1,199.5 (166.4)	

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: I.I.Saperstein DATE 1 May 1953 CHECKED BY: R. J. Pate DATE 1 May 1953

[redacted]

[redacted] SCALE FACTOR

[redacted]	A. 1927 - DATUM DISTANCE GRID OR PROJECTION LINE IN METERS WARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
[redacted]	4.4	(1,537.0)		
	0.9	(825.0)		
	2.3	(1,639.1)		
	6.5	(309.5)		
	5.2	(1,636.2)		
	3.9	(2.0)		
	9.5	(1,731.9)		
	3.3	(322.7)		
	2.9	(948.5)		
	4.6	(1,322.0)		
	0.2	(121.2)		
	0.6	(1,096.2)		

M-2388-12

DATE 1 May 1953

COMPILATION REPORT T-11147

PHOTOGRAMMETRIC PLOT REPORT.

Filed with this report

~~This report to be submitted at a later date~~.

31. DELINEATION.

The graphic method was used.

The photographs of the "DQW" series were of good scale, while the photographs of the "J" series were very poor scale. Photographs 53-J-299 to 53-J-303 were poor for photographic interpretation.

32. CONTROL.

The control identification was good. It is sufficiently spaced to insure good detail points.

33. SUPPLEMENTAL DATA.

None used.

34. CONTOURS AND DRAINAGE.

Contours are inapplicable.

No difficulties were encountered in delineation of drainage.

35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline inspection was adequate.

The low-water line and limits of rock ledges were furnished by the field inspector.

36. OFFSHORE DETAILS.

No statement.

37. LANDMARKS AND AIDS.

Landmarks will be submitted by the hydrographic party as per project instructions. Form 567 is being submitted herewith for nonfloating aids.

No hydro work south of 42° 41'

38. CONTROL FOR FUTURE SURVEYS.

Nine (9) photo-hydro stations with descriptions have been listed under Item 49.

No Forms 524 are submitted with this survey.

Additional photo-hydro stations are to be located at a later date by the field party.

39. JUNCTIONS.

Junction was made to the south with T-11148.

There is no contemporary survey to the east - open water area.

Due to a misunderstanding of the limits of Survey T-11168 as compiled by the Washington Office, a junction was not effected between Surveys T-11146 and T-11168 along Sagamore Creek. The area involved has been delineated outside the neat line of this manuscript and will later be transferred to Survey T-11146. There is a discrepancy in the position of the bridge over Sagamore Creek between the two surveys. This discrepancy is similar to that existing between Survey T-11144 and Survey T-11168. Please refer to letter to Chief, Division

of Photogrammetry, dated 15 April 1953, his reply dated 30 April 1953, 711-aal and Supplemental Instructions 2 to Mr. John C. Lajoye, dated 30 April 1953, 711-aal. (attached)

There is a slight discrepancy in the junction of this survey and T-11168 to the north which appears to be interpretation differences.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with KITTERY, ME. - N.H. (T-8532), scale 1:25,000, dated 1944. The two are in fair agreement.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with USC&GS Nautical Chart No. 329, scale 1:10,000 and corrected to 9 November 1951. The two are in fair agreement. The chart shows an island at latitude 43° 02'.9 and longitude 70° 43'.0. This island does not appear on the photographs.

Comparison was also made with USC&GS Nautical Chart No. 1206, scale 1:80,000 and corrected to 14 July 1952. The two appear to be in good agreement.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Robert R. Wagner
Carto Photo Aid

APPROVED AND FORWARDED

J. E. Waugh

J. E. Waugh, Chief of Party

SUPPLEMENTAL COMPILATION REPORT T-11147

The manuscript was completed to its junction with Survey T-11168(53) on the north and furnished to the hydrographic party. Five (5) additional photo-hydro signals were located by the field party and are listed as follows:

RAG - North gable of brown house (from T-11148)
FOX - Center gable, red house silver roof
OLA - Cupola
CON - Concrete tower
TAR - Steel tower (△ Pulpit Rock 142, 1941)
CRO - Center of false chimney east gable, native stone house

The manuscript was returned to this office and upon instructions from the Washington Office, the shoreline north of latitude 43° 03'1 was transferred from a film positive of Survey T-11168(53), scale 1:10,000, which was reduced from the original scale 1:5,000. The interior details were then compiled from the photographs.

Survey T-11168(53) was compiled without field inspection and where field inspection (which was accomplished at a later date) disagreed with the shoreline as mapped, it was corrected on the film positive in red ink.

The low-water line on this survey did not junction with T-11168 in the area of WITCH CREEK.

Small islands not recovered by the field inspector have been crossed out in green ink on the film positive.

Junction was made to the west with T-11146 and to the north with T-11144.

Robert R. Wagner
Carto Photo Aid

APPROVED AND FORWARDED:

Ira R. Rubottom, Chief of Party

49. NOTES FOR THE HYDROGRAPHER.

Photo-hydro stations:

4701 - Chimney, center of yellow house with red roof. About 0.5 mile north of Rye Harbor.

*4702 - Cupola, southeast corner of house.

4703 - Chimney, top of green house with green roof.

4704 - Chimney on south side of low building.

4705 - Chimney, white house with green shutters.

4706 - Chimney on white house.

4707 - White flagpole about 75 feet high.

4708 - Chimney on red brick house.

4709 - Flagpole on Wentworth Golf Club building.

*Appears to be on southwest corner of house.

Piling indicated by the field inspector at approximate latitude 43° 02'.8 and longitude 70 43'.7, just north of the bridge, could not be identified on the office photographs. It is requested that the piling be located by the hydrographic party.

TIDE COMPUTATION

PROJECT NO. Ph-114(53)- T-11147

eference station PORTLAND — Mean range 8.7

ubordinate station JAFFREY POINT — Ratio of ranges 1.0

Height feet	Height x Ratio of ranges
7.9	7.9
0.8	0.8
	7.1

	Time h.	m.
High tide at Ref. Sta.	5	54
Time difference	∠ 0	05
Corrected time at Subordinate station	5	59

	Time h.	m.
Low tide at Ref. Sta.	12	23
Time difference	∠ 0	05
Corrected time at Subordinate station	12	28

	feet		feet	Photo. No.
~~Zero~~ L. T.	0.8	Feature bares		
lar correction	3.1	Stage of tide above MLW		
of tide above MLW	3.9	Feature above MLW		
. T. or L. T.		Feature bares		
lar correction		Stage of tide above MLW		
of tide above MLW		Feature above MLW		
. T. or L. T.		Feature bares		
ar correction		Stage of tide above MLW		
of tide above MLW		Feature above MLW		
. T. or L. T.		Feature bares		
lar correction		Stage of tide above MLW		
of tide above MLW		Feature above MLW		
T. or L. T.		Feature bares		
ar correction		Stage of tide above MLW		
of tide above MLW		Feature above MLW		
. T. or L. T.		Feature bares		
lar correction		Stage of tide above MLW		
of tide above MLW		Feature above MLW		

M-2617-12

Computed by R. R. Wagner Checked by W. W. Dawsey

TIDE COMPUTATION

PROJECT NO. Ph-114(53) T-11147

Time and date of exposure 2 July 1952 1400 EST
Reference station PORTLAND MAINE
Mean range 8.7 RHH

Date of field inspection 12 May 1953
Subordinate station JAFFREY POINT
Ratio of ranges 1.0

FI @ 13:00 EDST = 12:00 EST

	Time h.	Time m.
High tide	10	06
Low tide	16	08
Duration of rise or fall	6	02

	Height feet	Height x Ratio of ranges
High tide	9.4	9.4
Low tide	- 0.5	- 0.5
Range of tide		9.9

	Time h.	Time m.
High tide at Ref. Sta.	10	01
Time difference	+ 0	05
Corrected time at Subordinate station	10	06

	Time h.	Time m.
Low tide at Ref. Sta.	16	03
Time difference	+ 0	05
Corrected time at Subordinate station	16	08

	h. m.		feet		feet	Photo. No.
Time ~~H.T. or~~ L. T. Required time Interval	16 08 14 00 2 08	Ht. ~~H.T. or~~ L. T. Tabular correction Stage of tide above MLW	- 0.5 2.9 2.4 3.75	Feature bares Stage of tide above MLW Feature above MLW		Bridge
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		

M-2617-12

Computed by R. R. Wagner Checked by W. W. Dawsey

TIDE COMPUTATION

PROJECT NO. Ph-114 (53) T-11147

Time and date of exposure 2 July 1952 1700 EST — Reference station PORTLAND MAINE — Mean range 8.7 RMH

Date of field inspection 12 May 1953 — Subordinate station JAFFREY POINT — Ratio of ranges 1.0

F I @ 1600 EDST = 1500 EST

	Time h.	Time m.
High tide	22	20
Low tide	16	08
Duration of rise or fall	6	12

	Height feet	Height x Ratio of ranges
High tide	10.7	10.7
Low tide	- 0.5	- 0.5
Range of tide		11.2

	Time h.	Time m.
High tide at Ref. Sta.	22	15
Time difference	+ 0	05
Corrected time at Subordinate station	22	20

	Time h.	Time m.
Low tide at Ref. Sta.	16	03
Time difference	+ 0	05
Corrected time at Subordinate station	16	08

	h. m.		feet		feet	Photo. No.
Time ~~H.T. or~~ L. T.	16 08	Ht. ~~H.T. or~~ L. T.	- 0.5	Feature bares		Bridge
Required time	17 00	Tabular correction	0.5	Stage of tide above MLW		
Interval	52	Stage of tide above MLW	0.0 0.3	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. R. Wagner — Checked by W. W. Dawsey

Form 567
April 1945

PHOTOGRAMMETRIC REVIEW SECTION

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

TO BE CHARTED / ~~REVISED~~ } STRIKE OUT ONE

Tampa Photogrammetric Office, Tampa, Fla. 10 July, 1953

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~the~~ the charts indicated.

The positions given have been checked after listing by R. R. Wagner

J. E. Waugh *Chief of Party.*

STATE NEW HAMPSHIRE

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	LATITUDE* ″ D.M. METERS	LONGITUDE* ° ′	LONGITUDE* ″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
JAFFREY POINT LIGHT			43 03	17.177 530.1	70 42	50.520 1143.3	N.A. 1927	Triang.	1953	X	X		329 1206
JAFFREY POINT DAYBEACON			43 03	17.417 537.5	70 42	50.413 1140.8	"	"	"	X	X		329 1206

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

*TABULATE SECONDS AND METERS

M-28

48. GEOGRAPHIC NAME LIST.

All names shown are Base Map Names. No additions or deletions were submitted by the field inspector.

T-11,147: Geographic Names.

New Hampshire
Maine
Gulf of Maine (as noted on the sheet, this is the more precise name, rather than Atlantic Ocean, but the latter is also acceptable)
Atlantic Ocean
Rye Harbor
Rye Harbor State Park
Ragged Neck Point
Foss Beach
Shore Boulevard
Awcomin Marsh
Washington Road
Foss Ledges
Rye North Beach
Concord Point
Wallis Sands
Wallis Sands Road
Seal Rocks
Fairhill Manor
Pulpit Rock
High Rock
Odiornes Point
Fort Dearborne (recommended spelling, rather than Dearborn)
Frost Point
Fairhill Swamp
Little Harbor
Seavey Creek
Berrys Brook
Witch Creek
Sheafes Point
Foyes Corner
N H 1A
N H 1B Wentworth Road
Wentworth Golf Club
Sagamore Creek
Blunts Island
Goose Island
Clampit Island
New Castle Island (two words by B G N decision)
Jaffrey Point
Fort Stark
~~Whaleback Reef~~ Whaleback Reef
White Island
White Island Reef

Names approved 11-24-54.
L Heck

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T-11147

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 MMS 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) XXX. 7. Photo hydro stations J.G. 8. Bench marks XXX
9. Plotting of sextant fixes XXX 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 XXX 18. Other alongshore physical features J.G. 19. Other alongshore cultural features J.G.

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines XXX 32. Public land lines XXX

MISCELLANEOUS

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

40. For J. A. Giles (william a. Rasure) — Reviewer

(william a. Rasure) W. 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-11147
Shoreline Map
22 November 1954

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 called-for revisions on black line impressions on vinylite. These positives on vinylite, with corrections applied, serve as the final map manuscripts.

62. Comparison with Registered Surveys:

[redacted]

T-1047, a	1:10,000	1867, 1912	Rye Harbor to near Portsmouth
T-2375, a	1:10,000	1898-99 & 1901, 1912	Portsmouth Harbor

T-11147 supersedes the older surveys for charting purposes.

63. Comparison with Maps of Other Agencies:

USE Kittery, Maine, New Hampshire 1:25,000, 1949 (from USGS, 1944 quad.)

Because of its more detailed shoreline and additional cultural data, T-11147 replaces these features on the quadrangle for charting purposes.

64. Comparison with Contemporary Hydrographic Surveys:

H-8091 (ECFP 1453) 1:10,000, 1953 (from 42° 56-3/4' to 43° 03')
H-8092 (ECFP 1553) 1:10,000, 1953 (from 43° 02-3/4' to 43° 04'

Only blueprints of the boat sheets were available. The LWL is incomplete along the mainland and is not drawn in the areas Wood Island, Whaleback, White Island and Reef.

During review the ledge limits at White Island and Reef were re-delineated to better conform to its form on

photograph 53-J-130 (-0.25 tide). This photograph indicates that a ledge area surrounds the rocks at Whaleback. It was added to the manuscript.

65. Comparison with Nautical Charts:

1206	1:80,000	October 1948, corrected March 1954
329	1:10,000	June 1954 Portsmouth Harbor

Charted but not mapped on T-11147:

1. Cable at Wallis Sands. (No field inspection)
2. Cable at Odiornes Point. (Found broken on shore)
3. Island east of Fort Dearborn.

The low water pictures do not indicate a large island but only probable rock pinnacles at the delineated margin of the reef. There is no high water picture of the area so that it is not known if these pinnacles protrude above MHW. They seem to be only irregularities in the reef.

4. Numerous sunken rocks.

66. Bridges:

	Ms.	Chart	Brg List
Sagamore Creek	H = 153.0 V = 12.3	H = 153.0 V = 7.0	H = 144 V = 12.4
Wentworth	H = 32.0 V = 15.0	H = 43.5 V = 12.0	H = 43.5 V = 12.5
Seavey Creek	H = 17.0 V = 5.0	———	———

67. Accuracy:

The MHWL and interior detail meet the National Standards of Accuracy. The MLWL is approximate. The hydrographic surveys afford additional offshore features.

Reviewed by:

Lena T. Stevens

Lena T. Stevens

APPROVED BY:

R C Lande
Chief, Review Section
Photogrammetry Division

Max Blackstone
Chief, Nautical Chart Branch
Charts Division

H W Swanson
Chief, Photogrammetry Division
5 Nov 59

D R Russell
Chief, Coastal Surveys Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11147

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.