

11167

Diag. Cht. No. 1205.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-111 Office No. T-11167

LOCALITY

State Maine

General locality East Coast Maine

Locality Weare Point to East Point

1945

CHIEF OF PARTY

E.H.Kirsch, Chief of Field Party

I.R.Rubottom, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE August 26, 1958

B-1870-1 (1)

11167

DATA RECORD

T - 11167

Project No. (II): Ph-114

Quadrangle Name (IV):

Field Office (II) Photo Party No. 1 and 2

Chief of Party: E. H. Kirsch

Photogrammetric Office (III): Tampa, Florida

Officer-in-Charge: Ira R. Rubottom

Instructions dated (II) (III): Project Instructions dated 13 March 1953 Copy filed in Division of

Supplement No. 1 dated 28 March 1953

Photogrammetry (IV)

" 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): 3-31-55

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 4/8/55

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III): M H W

~~MEAN LOW WATER OR MEAN LOWER LOW WATER~~

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): CAPE NEDDICK 151, 1941

Lat.: 43° 10' 07" 377 (227.7m)

Long.: 70° 35' 43" 977 (993.4m)

Adjusted

~~Horizontal~~

Plane Coordinates (IV):

State:

Zone:

Y=

X=

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

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

Inapplicable

Areas contoured by various personnel
(Show name within area)
(lf) (llf)

DATA RECORD

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

Date: July, 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

July, 1953

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

Date: 13 Aug. 1953

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

Date: 17 Aug. 1953

Control plotted by (III): I. I. Saperstein

Date: 27 Aug. 1953

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

Date: 27 Aug. 1953

~~Radial Plot or Stereoscopic
Photobase~~ by (III):

M. M. Slavney

Date: 16 Oct. 1953

Stereoscopic Instrument compilation (III):
Planimetry
Inapplicable
Contours

Date:

Date:

Manuscript delineated by (III): I. I. Saperstein

Date: Jan. 1955

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

Date: Jan. 1955

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

Inapplicable

Date:

Camera (kind or source) (III): **Fairchild K-17-6" Metrogon Lens**

Number	Date	Time	Scale	Stage of Tide
53-J-326	22 April 1953	09:58	1:10,000	3.2
53-J-327	"	09:59	"	3.2
53-J-328	"	10:00	"	3.2
53-J-329	"	10:01	"	3.2
53-J-387	"	10:52	"	1.8
53-J-388	"	10:53	"	1.8
53-J-390	"	10:55	"	1.8
53-J-140	14 April 1953		"	low
53-J-141	"		"	water
53-J-148	"		"	photography
53-J-149	"		"	"
53-J-151	"		"	"

Tide (III)
From Predicted Tides

Reference Station: **PORTLAND, MAINE**
Subordinate Station: **GERRISH ISLAND WHARF**
Subordinate Station:

MHW

Ratio of Ranges	Mean Range	Spring Range
-	8.9	10.2
1.0	8.7	10.0

8.7

Washington Office Review by (IV): *Lenat. Stevens*

Date: *15 June 1955*

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **2**
Shoreline (More than 200 meters to opposite shore) (III): **7**
~~Shoreline (Less than 200 meters to opposite shore) (III):~~
Control Leveling - Miles (II): **None**
Number of Triangulation Stations searched for (II): **7**
Number of BMs searched for (II): **3**
Number of Recoverable Photo Stations established (III): **0**
Number of Temporary Photo Hydro Stations established (III): **22**

Recovered:	5	Identified:	3
Recovered:	3	Identified:	3

Remarks:

Summary to Accompany
Shoreline Map T-11167

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 this surveying was accomplished in the summer of 1954 under supplemental instructions 29 January 1954 for project CS-355 which had operated in 1953 from Ipswich Bay, Massachusetts to Portsmouth Harbor, New Hampshire, and in the upper Piscataqua River.

The Field Inspection Report is being submitted as a
separate report. (*Filed as a part of Report T11148*)

COMPILATION REPORT T-11167

* The photogrammetric plot report was submitted separately.

* Attached to Report T11144 *kel.*

31. DELINEATION

The graphic method was used. No difficulty was encountered in the interpretation of the photographs or in the delineation of the manuscript.

The single-lens ratio prints were of fair scale; the contact prints were of poor scale.

The field inspection was adequate.

32. CONTROL

See photogrammetric plot report.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

Inapplicable

35. SHORELINE AND ALONGSHORE DETAILS

The mean high-water line was delineated according to the field inspector's notes and photographic interpretation. The low-water line was delineated from the contact photographs, which were taken at low-water. The projector was used because of the poor scale.

36. OFFSHORE DETAILS

No unusual problems were encountered. However, the questions asked the hydrographer relative to offshore islands off Barn Pt. were not answered.

It was requested of the hydrographer to ascertain if the ledges shown on Chart 228 at approximate Latitude $43^{\circ} 10' 50''$ Longitude $70^{\circ} 36' 10''$ are above or below Mean High-water. These are shown on the chart as islands. However, the photogrammetric field inspector places the Mean Low-water outside of or east of these ledges. *

Another ledge shown on Chart 228 as an island is at approximate Latitude $43^{\circ} 10' 58''$, Longitude $70^{\circ} 36' 03''$. This ledge was also below Mean High-water according to the field inspector.

* Field inspection photograph 853-J-152 indicates that one of these rocks has been whitewashed for signal purposes. That implies a height above MHW.

Barn Point area.

37. LANDMARKS AND AIDS

All landmarks to be reported by the hydrographic party.

There is one aid, Cape Neddick Lighthouse.

38. CONTROL FOR FUTURE SURVEYS

No permanently marked topographic stations were established.

Twenty-two photo hydro stations were established by the photogrammetric field party prior to compilation. These were reported previously. However, a number of photo hydro stations were cut in on a copy of the manuscript by the hydrographic party. These additional stations are not shown on the original manuscript.

39. JUNCTIONS

Satisfactory junctions have been affected with:

T-11165 to the north

T-11166 to the west.

There are no contemporaneous surveys to the east and south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with topographic quadrangle, YORK BEACH, MAINE; scale 1:25,000, edition of 1944, reprinted 1949.

A number of small islands east of Barn Pt. shown on the map were not shown on the manuscript. This discrepancy could not be reconciled in the office. See Item 36.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 228, scale 1:20,000, published 1936, corrected to 28 July 1952.

The main differences appear to be the islands mentioned under Item 36. However, the existence or non-existence of these islands can probably be determined by the soundings in the area.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

See Item 36 relative to islands off Barn Pt.

Irving I Saperstein
Irving I Saperstein
Carto Photo Aid

APPROVED AND FORWARDED:

Ira R. Rubottom

Ira R. Rubottom, Chief of Party

48. GEOGRAPHIC NAME LIST

BANKS ROCK
BARN PT.

CAPE NEDDICK
CAPE NEDDICK HARBOR
CAPE NEDDICK NUBBLE
CONCORDVILLE
COW BEACH PT.

DOVER BLUFF

EAST PT.

GULF OF MAINE

LONG BEACH

MAINE

OCEANSIDE

PREBBLES PT.

(B.G.N. decision (1950) has final s)

ROARING ROCK PT.

SIMPSONS HILL

U S 1A

WEARE PT.

YORK BEACH

Names approved
6-15-55. L. Heck.

49. NOTES FOR THE HYDROGRAPHER

A list of twenty-two (22) temporary photo hydro stations have been previously reported.

PHOTOGRAMMETRIC OFFICE REVIEW

T. 11167

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

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) xxxxxxx 7. Photo hydro stations JG 8. Bench marks JG 9. Plotting of sextant fixes xxxxxxx 10. Photogrammetric plot report JG 11. Detail points JG

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines xxxxxxx 32. Public land lines xxxxxxx

MISCELLANEOUS

33. Geographic names JG 34. Junctions JG 35. Legibility of the manuscript JG 36. Discrepancy overlay xxxxxxx 37. Descriptive Report JG 38. Field inspection photographs JG 39. Forms JG40. Jesse A. Giles William A. Rasure
Reviewer Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

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

Compiler_____
Supervisor

43. Remarks:

M-2623-12

TIDE COMPUTATION

PROJECT NO. Ph. 114- T. 1167

Time and date of exposure

Reference station

PORTLAND

Mean range

8.7

Date of field inspection

14/5 July 1953

Subordinate station

GERRISH ISLAND WHARF

Ratio of ranges

1.0

Height of HW - 0.2

	Time	
	h.	m.
High tide	10	33
Low tide	16	27
Duration of rise or fall	5	54

	Height feet	Height x Ratio of ranges
High tide	8.3	8.1
Low tide	0.7	0.7
Range of tide		7.4

	Time	
	h.	m.
High tide at Ref. Sta.	10	28
Time difference	+	05
Corrected time at Subordinate station	10	33

	Time	
	h.	m.
Low tide at Ref. Sta.	16	22
Time difference	+	05
Corrected time at Subordinate station	16	27

	h.	m.		feet	Photo. No.
Time H. T. or L. T.	16	27	Ht. H. T. or L. T.	0.0	53-J-152
Required time	14	15	Tabular correction	2.9	
Interval	2	12	Stage of tide above MLW	2.9	
Time H. T. or L. T.			Ht. H. T. or L. T.	2.0	
Required time			Tabular correction	2.9	
Interval			Stage of tide above MLW	4.9	
Time H. T. or L. T.			Ht. H. T. or L. T.	6.0	
Required time			Tabular correction	2.9	
Interval			Stage of tide above MLW	8.9 (0.4 above MHW)	
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		

Computed by

115

Checked by

M-2617-12

TIDE COMPUTATION

PROJECT NO. PH-1167 T-11167

Time and date of exposure

Reference station

PORTLAND

Mean range

8.7

Date of field inspection

1310 24 June 1953

Subordinate station

GERISH ISLAND WHARF

Ratio of ranges

Height of HW - 0.2

	Time
	h. m.
High tide	8 49 ✓
Low tide	14 41 ✓
Duration of rise or fall	5 52

	Height feet	Height x Ratio of ranges
High tide	7.4 ✓	7.2 ✓
Low tide	1.3 ✓	1.3 ✓
Range of tide		5.9 ✓

	Time	
	h.	m.
High tide at Ref. Sta.	8	44
Time difference	+	05
Corrected time at Subordinate station	8	49

	Time	
	h.	m.
Low tide at Ref. Sta.	14	36
Time difference	+	05
Corrected time at Subordinate station	14	41

	h. m.		feet		feet	Photo. No.
Time H. T. or L. T.	14 41	Ht. H. T. or L. T.	1.3	Feature bares	0.0	53-J-141
Required time	13 10	Tabular correction	1.0	Stage of tide above MLW	2.3	
Interval	1 31	Stage of tide above MLW	2.3	Feature above MLW	2.3	
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

115

Checked by,

511

TIDE COMPUTATION

PROJECT NO. PH. 114 T-11167

Time and date of exposure 0959 22 Apr 1953

Reference station PORTLAND

Subordinate station GERRISH ISLAND WHARF

Mean range 8.7

Ratio of ranges 1.0

Date of field inspection JULY 1953

Height of HW -0.2

	Time	
	h.	m.
High tide	5	59
Low tide	12	28
Duration of rise or fall	6	29

	Height		Height x Ratio of ranges
	feet		
High tide	7.9	✓	7.7
Low tide	0.8	✓	0.8
Range of tide			6.9 ✓

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

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

	h.	m.	feet	Photo. No.
Time H. T. or L. T.	12	28	Feature bares	53-J-327
Required time	09	59	Stage of tide above MLW	
Interval	2	29	Feature above MLW	
Time H. T. or L. T.			Feature bares	
Required time			Stage of tide above MLW	
Interval			Feature above MLW	
Time H. T. or L. T.			Feature bares	
Required time			Stage of tide above MLW	
Interval			Feature above MLW	
Time H. T. or L. T.			Feature bares	
Required time			Stage of tide above MLW	
Interval			Feature above MLW	
Time H. T. or L. T.			Feature bares	
Required time			Stage of tide above MLW	
Interval			Feature above MLW	
Time H. T. or L. T.			Feature bares	
Required time			Stage of tide above MLW	
Interval			Feature above MLW	

M-2617-12

Computed by 115

Checked by R. Do. 1953

Review Report
Shoreline Map T-11167
14 June 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.

62. Comparison with Registered Surveys:

T-440	1:10,000	1853	York and Cape Neddick Harbors
T-440a	1:20,000	1911	York Harbor

Except for rocks (which will be mapped by the hydrographic party) T-11167 supersedes the older surveys for charting.

63. Comparison with Maps of Other Agencies:

USE York Beach, Maine 1:25,000 1949

T-11167 supersedes the shoreline and planimetry for charting purposes.

64. Comparison with Contemporary Hydrographic Surveys:

H-8160	1:10,000,	1954	N. shore Portsmouth Har. to Prebbles Pt.
H-8161	1:10,000,	1954	Prebbles Pt. to Ogonquit

Only the blue-prints of the boat sheets were available during the review of T-11167. No shoreline changes were made to T-11167 but several rocks were added, those at Long Beach being particularly evident on the photographs.

65. Comparison with Nautical Charts:

228 1:20,000 Sept. 1936, corr. July 1952

Of the three charted landmarks, two appear on the map manuscript as triangulation stations. The third, the eastern spire of two, is mapped

only as a church.

The cable to Boon Island has its origin on the west side of Cape Neddick Nubble rather than from the mainland, as on the chart. This is in conformity to a field inspection note on photo 53-J-145.

Rocks have been added to the map manuscript, at Long Beach and at Barn Point.

66. Accuracy:

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

Reviewed by:

Lena T. Stevens
Lena T. Stevens

APPROVED BY:

R. C. Landy
Chief, Review Section
Photogrammetry Division

H. W. Swanson
Chief, Photogrammetry Division

20 Aug 1958 

Max Skellett
Chief, Nautical Chart Branch
Charts Division

J. B. P. Wall
Chief, Coastal Surveys Division