

11164

Diag. Cht. No. 1205

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-114 Office No. T-11164

LOCALITY

State Maine

General locality Gulf Of Maine

Locality Wells Beach to Ogunquit River

194 53

CHIEF OF PARTY

E.H.Kirsch, Chief of Field Party

I.R.Rubottom, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE September 5, 1958

8-1870-1 (1)

11164

DATA RECORD

T-11164

Project No. (II): **Ph-114**

Quadrangle Name (IV):

Field Office (II): **NEWBURYPORT, N.H.**

Chief of Party: **E. H. Kirsch**

Photogrammetric Office (III): **TAMPA, FLA.**

Officer-in-Charge: **Ira R. Rubottom**

Instructions dated (II) (III): **13 March 1953**

Copy filed in Division of

Supplement No. 1 28 March 1953

Photogrammetry (IV)

" " **2 30 April 1953**

" " **3 6 May 1953**

" " **4 26 May 1953**

" " **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): **6-3-55**

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

JUN 9 1955
4/8/58

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 (2) refer to sounding datum

i.e., mean low water or mean lower low water

Reference Station (III): **MOODY POINT 153, 1941**

Lat.: **43°17'11.978" (369.6m.)**

Long.: **70°34'19.720" (444.6m.)**

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.

INAPPLICABLE

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

DATA RECORD

Field Inspection by (II): **L. F. Bougnet**Date: **August 1953**Planetable contouring by (II): **Inapplicable**

Date:

Completion Surveys by (II): **Inapplicable**

Date:

Mean High Water Location (III) (State date and method of location): **August 1953 - Air Photo Compilation**Projection and Grids ruled by (IV): **Austin Riley (W. O.)**Date: **13 August 1953**Projection and Grids checked by (IV): **H. D. Wolfe (W. O.)**Date: **14 August 1953**Control plotted by (III): **I. I. Saperstein**Date: **26 August 1953**Control checked by (III): **R. J. Pate**Date: **26 August 1953**~~Radial Plot or Stereoscopic~~Date: **19 October 1953**~~Control extension~~ by (III): **M. M. Slavney**

Planimetry

Date:

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

Contours

Date:

Manuscript delineated by (III): **R. R. Wagner**Date: **28 January 1955**Photogrammetric Office Review by (III): **J. A. Giles**Date: **17 March 1955**Elevations on Manuscript **Inapplicable**
checked by (II) (III):

Date:

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

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
53-J-369-370	22 Apr. 1953	1042	1:10,000	2.0
53-J-371	"	1043	"	"
53-J-372-373	"	1044	"	"
53-J-161				
to				0.3
53-J-170 incl.	18 Apr. 1953		"	Low-water photo.

Tide (III)

Taken from predicted tides

Reference Station: **PORTLAND**

Subordinate Station: **CAPE PORPOISE**

Subordinate Station:

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

Washington Office Review by (IV): *Lena T. Stevens*

Date: *8 Nov. 1955*

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **4**

Shoreline (More than 200 meters to opposite shore) (III): **8**

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

Control Leveling - Miles (II): **Inapplicable**

Number of Triangulation Stations searched for (II): **6**

Recovered: **4**

Identified: **2**

Number of BMs searched for (II): **Inapplicable**

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): **1**

Number of Temporary Photo Hydro Stations established (III): **19***

Remarks:

*** Additional stations were located at the time of hydrography by the photogrammetric field party but are not shown on the map manuscript.**

Summary to Accompany T-11164

Field instructions were issued for Ph-114 on 13 March 1953 to provide shoreline and control for inshore hydrographic surveys and to provide standard shoreline manuscripts for chart compilation. The hydrographic phase of survey was accomplished under instructions for CS-355, 6 March 1953, 29 January 1954, and 16 February 1955, Gloucester Harbor, Massachusetts to Biddeford and Saco River, Maine.

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

* THE FIELD INSPECTION REPORT
IS BEING SUBMITTED AS A
SEPARATE REPORT.

* Filed as a part of
Report T11148

COMPILATION REPORT T-11164PHOTOGRAMMETRIC PLOT REPORT.

This report was submitted under separate cover. *(Filed as a part of Report T11144) H.C.L.*

31. DELINEATION.

The graphic method was used.

The photographs were of fair scale.

32. CONTROL.

See Photogrammetric Plot Report.

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 on the low-water photographs.

36. OFFSHORE DETAILS.

There was no photographic coverage for BIBB ROCK which appears on the WELLS, MAINE quadrangle.

37. LANDMARKS AND AIDS.

Landmarks will be submitted by the hydrographic party as per project instructions. There are no nonfloating aids.

38. CONTROL FOR FUTURE SURVEYS.

Nineteen (19) photo-hydro stations and one (1) topographic station have been previously submitted to the hydrographic party. Reference page 4 of Data Record relative to additional photo-hydro stations.

39. JUNCTIONS.

Junctions were made to the north with T-11162 and to the south with T-11165. There are no contemporary surveys to the east and west.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with AMS quadrangle WELLS, MAINE, scale 1:25,000, dated 1944. The two are in fair agreement. Reference Item 36.

47. COMPARISON WITH NAUTICAL CHARTS.

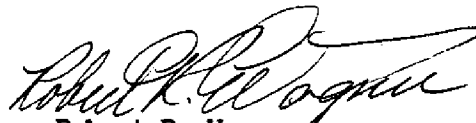
Comparison was made with USC&GS Nautical Chart 1205, scale 1:80,000 and corrected to 28 July 1952. The two are in fair agreement. The map listed under Item 46 appears to be the source of topography and the same differences exist.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.


Robert R. Wagner
Carto Photo Aid

APPROVED AND FORWARDED


Ira R. Rubottom, Chief of Party

48. GEOGRAPHIC NAME LIST.

The following are names taken from AMS quadrangle WELLS, MAINE
and USC&GS Nautical Chart 1205:

*BIBB ROCK
BUCKMAN ROCKS

CHARLES CHASE CORNER

GOODWIN BROOK
GULF OF MAINE

LOWER BEACH ROAD

MAINE
MILE ROAD
MOODY
MOODY BEACH

OGUNQUIT BEACH
OGUNQUIT RIVER

P. O. OF WEBHANNT^E
POPE CREEK

STEVENS BROOK

WEBHANNT RIVER
WELLS BEACH

U S 1

*Names approved
11-8-55
a.j.w.*

*Feature not shown on map manuscript since it was not
possible to locate it.

49. NOTES FOR THE HYDROGRAPHER.

The information required has already been submitted.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11164

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

~~Sec. Classification label~~ **Unclassified**

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

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

40. Jesse A. Giles 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:

TIDE COMPUTATION

PROJECT NO. Ph. 114 T. 1164

Time and date of exposure 22 Apr 53 1043 Reference station PARTIALLY Mean range 8.7
 Date of field inspection Subordinate station CAPE PORPOISE Ratio of ranges 1.0

	Time		Height feet	Height x Ratio of ranges
	h.	m.		
High tide	5	54	7.9	7.7
Low tide	12	23	0.8	0.8
Duration of rise or fall	6 29		6.9	

	Time	
	h.	m.
High tide at Ref. Sta.	5	54
Time difference	0	00
Corrected time at Subordinate station	5	54

	Time	
	h.	m.
Low tide at Ref. Sta.	12	23
Time difference	0	00
Corrected time at Subordinate station	12	23

	h.	m.	feet	feet	Photo. No.
Time H. T. or L. T.	12	23	0.8		
Required time Interval	10	43	1.2		53-1-371
	1	40	2.0		
Time H. T. or L. T.					
Required time Interval					
Time H. T. or L. T.					
Required time Interval					
Time H. T. or L. T.					
Required time Interval					
Time H. T. or L. T.					
Required time Interval					
Time H. T. or L. T.					
Required time Interval					

Computed by RPW Checked by PHR

PROJECT NO. Ph-114/ T-11164

PROJECT NO. PH-114/ T-11164

Reference station

50713117

Mean range

87

Date of field inspection 20 July 1953 1145 ✓

Subordinate station *CAPF 0000015E*

Ratio of ranges

Height of F.W. - 0.2 ✓

	Time	
	h.	m.
High tide	17	40
Low tide	11	17
Duration of rise or fall	6 23	

	Height feet	Height x Ratio of ranges	Time	
			h.	m.
High tide	8.3	8.1	17	40
Low tide	1.6	1.6	11	17
Range of tide			6 23	

	Height feet	Height x Ratio of ranges	Time	Time
High tide at Ref. Sta.			17	40
Time difference			2	00
Corrected time at Subordinate station			17	40

	Height feet	Height x Ratio of ranges	Time	Time
High tide at Ref. Sta.			17	40
Time difference			2	00
Corrected time at Subordinate station			17	40

	h.	m.	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	feet	Feature bares Stage of tide above MLW Feature above MLW	feet	Photo. No.
Time H. T. or L. T. Required time Interval	11 17 11 45 28	✓ ✓ ✓		1.6 0.1 1.7	Bridge Stage of tide above MLW Feature above MLW	12.8 1.7 5.8	4-22-53-2373
Time H. T. or L. T. Required time Interval	11 17 13 00 143	✓ ✓ ✓		1.6 1.1 2.7	Bridge Stage of tide above MLW Feature above MLW	11.0 2.7 5.0	"
Time H. T. or L. T. Required time Interval					Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval					Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval					Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval					Feature bares Stage of tide above MLW Feature above MLW		

M-2617-12

Computed by [Signature] Checked by 115

TIDE COMPUTATION

PROJECT NO. Ph. 114 T-11164

Time and date of exposure	Reference station	Mean range
	OP-1 AND	8.7

Date of field inspection	24 July 1978	Subordinate station	CAPE PARAPASE	Ratio of ranges	1.0
				Height of H.W.	-0.2

	Time	
	h.	m.
High tide	8	59 ✓
Low tide	14	51 ✓
Duration of rise or fall	5 52 ✓	

	Height feet	Height x Ratio of ranges	Time	
			h.	m.
High tide	7.7	2.5	8	59
Low tide	1.0	1.0	8	00
Range of tide		6.5	8	59

	Low tide at Ref. Sta.	Time	
		h.	m.
Time difference		14	51
Corrected time at Subordinate station		0	00

	h. m.	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	feet	Feature bares Stage of tide above MLW Feature above MLW	feet	Photo. No.
Time H. T. or L. T. Required time Interval	8 59 10 30 131	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	7.5 1.1 6.4	Feature bares Stage of tide above MLW Feature above MLW	6.3 6.4 4.0	4-22-53-4-370
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-3617-12

Computed by [Signature] Checked by 115

TIDE COMPUTATION

PROJECT NO. PH-114 T-11164

Time and date of exposure

Reference station

FOR THE RAND

Mean range

Date of field inspection

Subordinate station

CHAP. DEPOSE

Ratio of ranges

Height of HAD. - 0.2. ✓

	Time	
	h.	m.
High tide	8	07
Low tide	13	59
Duration of rise or fall	5 h 52	

	Height	Height x Ratio of ranges
	feet	
High tide	73	71 ✓
Low tide	14	14 ✓
Range of tide		57 ✓

	Time	
	h.	m.
High tide at Ref. Sta.	8	07
Time difference	0	00
Corrected time at Subordinate station	8	07

	Time	
	h.	m.
Low tide at Ref. Sta.	13	59
Time difference	0	00
Corrected time at Subordinate station	13	59

Time H. T. or L. T. Required time Interval	h. m.	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	feet	Feature bars Stage of tide above MLW Feature above MLW	feet	Photo. No.
Time H.T. or L. T. Required time Interval	1359 1335 24	Ht. H.T. or L. T. Tabular correction Stage of tide above MLW	1.4 1.1 1.5	Feature bars Pack Stage of tide above MLW Feature above MLW	6.0 1.5 7.5	4-18-53-J-168
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bars Pack Stage of tide above MLW Feature above MLW	1.5 1.5 3.0	"
Time H.T. or L. T. Required time Interval	1359 1345 14	Ht. H.T. or L. T. Tabular correction Stage of tide above MLW	1.4 0.0 1.4	Feature bars Pack Stage of tide above MLW Feature above MLW	4.0 1.4 5.4	"
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bars Pack Stage of tide above MLW Feature above MLW	0.0 1.4	"
Time H.T. or L. T. Required time Interval	1359 1400 1	Ht. H.T. or L. T. Tabular correction Stage of tide above MLW	1.4 0.0 0.4	Feature bars Pack Stage of tide above MLW Feature above MLW	0.0 1.4 1.4	4-18-53-J-166
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bars Stage of tide above MLW Feature above MLW		

M-2617-12

Computed by [Signature] Checked by [Signature]

TIDE COMPUTATION

PROJECT NO. Ph. 114 T. 11164

Time and date of exposure 29 July 1953 0845 Reference station PORTLAND Mean range 8.7

Date of field inspection 29 July 1953 0845 Subordinate station CAPE PORPOISE Ratio of ranges 1.0
Height of HW - 0.2

	Time		Height feet	Height x Ratio of ranges
	h.	m.		
High tide	1256		9.9	9.7
Low tide	647		-1.4	-1.4
Duration of rise or fall	609			11.1

	Time		High tide at Ref. Sta.	Time difference	Corrected time at Subordinate station
	h.	m.			
High tide	1256				
Low tide	000				
Corrected time at Subordinate station	1256				

	Time		Low tide at Ref. Sta.	Time difference	Corrected time at Subordinate station
	h.	m.			
Low tide	647				
Time difference	000				
Corrected time at Subordinate station	647				

	h.	m.		feet	Photo. No.
Time H. T. or L. T.	647		Ht. H. T. or L. T.	0.0	
Required time	845		Tabular correction	1.4	
Interval	158		Stage of tide above MLW	1.4	4-1853-J-168
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		

Computed by Robert H. Magraw Checked by 115

Review Report T-11164
Shoreline Map
8 November 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-1121 1:10,000 1869, rev. 1912-13 Ogunquit to Gelapus Pt.

T-11164 supersedes the older surveys for charting the shoreline, and adjacent culture and planimetry within the comparable area.

63. Comparison with Maps of Other Agencies:

USE, Wells, Maine, 1:24,000, 1944

This quadrangle was mapped by the C&GS from 1943 photographs. Because of greater detail of shoreline, and cultural changes, T-11164 supersedes these features on the quadrangle for charting purposes.

64. Comparison with Contemporary Hydrographic Surveys:

H- ? (Blueprint No. 52781 of Boat Sheet) 1:10,000, 1954-5
Ogunquit to Gelaspus Point, Maine

This boat sheet has the T-11164 shoreline and foreshore features. No changes to shoreline were made during review. The MLWL on T-11164 is an approximate (generalized) line, and rock data is incomplete, though not in conflict with the boat sheet.

65. Comparison with Nautical Charts:

1205 1:80,000, ed June 1950, corr. Oct. 1954.

A charted rock (also on the Wells quad.) in the embayment in the ledge, between Moody Point and Buckman Rocks, is not on T-11164 because

field inspection did not locate such a rock. The boat sheet also lacks this rock. Other near-shore rocks on T-11164 agree with rocks on the chart, except that the highest point on the most easterly ledge at Buckman Rocks does not extend above MHW.

66. Accuracy:

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

Reviewed by:

Lena T. Stevens
Lena T. Stevens

APPROVED BY:

L. C. Lande
Chief, Review Section
Photogrammetry Division

H. W. Swanson
Chief, Photogrammetry Division
28 Aug 1958

Max Skelton
Chief, Nautical Chart Branch
Charts Division

J. B. Smith
Chief, Coastal Surveys Division