

11162

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 (53) Office No. T-11162

LOCALITY

State Maine

General locality Gulf of Maine

Locality Mousam River to Wells Beach

1945

CHIEF OF PARTY

E.H.Kirsch, Chief of Field Party

I.R.Rubottom, Tampa Photo Office

LIBRARY & ARCHIVES

DATE July 28, 1958

11162

DATA RECORD

T - 11162

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

Quadrangle Name (IV):

Field Office (II): **Newburyport, Mass.**

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

Photogrammetric Office (III): **Tampa, Florida**

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

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

Copy filed in Division of
Photogrammetry (IV)

Supplement #1 **28 March 1953**

Supplement #2 **30 April 1953**

Supplement #3 **6 May 1953**

Supplement #4 **26 May 1953**

Supplement #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): **COLES HILL 1851**

Lat.: **43° 20' 35.172" (1085.4m.)** Long.: **70° 34' 18.063" (406.9m.)**

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: Mar.-Oct. 1953

Planetable contouring by (II): Inapplicable
(Shoreline Survey)

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 Aug. 1953

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

Date: 14 Aug. 1953

Control plotted by (III): R. A. Reece

Date: 23 Sept. 1953

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

Date: 23 Sept. 1953

Radial Plot ~~on Stereoscopic~~

Date: 20 Jan. 1954

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

Stereoscopic Instrument compilation (III):
Planimetry
Contours

Date:

Inapplicable

Date:

Manuscript delineated by (III): R. A. Reece

Date: 18 Dec. 1954

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

Date: 17 Mar. 1955

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

Date:

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

Number	Date	Time	Scale	Stage of Tide
53-J-359-363	22 April 1953	10:32	1:10,000	6.3 2.2
53-J-365-369	" " "	10:41	"	7.2 1.95 = 2.0
53-J-170-176	18 " "	Low water photography	"	3.6 0.4

[9:50, (# 158)
10:00, (# 185)]

[0.2
0.6]

Tide (III)

From predicted tides

Reference Station: PORTLAND, MAINE
Subordinate Station: CAPE PORPOISE, MAINE
Subordinate Station:

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

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

Date: 10 Nov. 1953

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): 11

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

Control Leveling - Miles (II): Inapplicable

Number of Triangulation Stations searched for (II): 12

Recovered: 10

Identified: 8

Number of BMs searched for (II): Inapplicable

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 0

Number of Temporary Photo Hydro Stations established (III): Reference Item 38

Remarks:

Summary to Accompany T-11162

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 C.S.-355, 6 March 1953, 29 January 1954, and 16 February 1955, Gloucester Harbor, Massachusetts to Biddeford and Saco River, Maine.

Censor
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.

~~X~~ THE FIELD INSPECTION REPORT

WAS SUBMITTED AS A SEPARATE

REPORT

** Filed as a part of Report 11148*

COMPILATION REPORT T-11162

PHOTOGRAMMETRIC PLOT REPORT

* This is submitted as a separate report.

* *Filed as part of Report T11144*

31. DELINEATION

The graphic method was used.

Photographs taken on 22 April 1953 were of fair scale and clear. The scale of those taken on 18 April 1953 were of poor scale. The projector was used in transferring necessary data from the latter. In some areas only two cuts were possible in locating detail points and these have been shown with green circles.

Field inspection was adequate.

32. CONTROL

Reference Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

There was no difficulty encountered in delineating the drainage.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline was delineated according to field inspector's notes which were adequate for all shoreline and alongshore details.

The low-water line is shown according to field inspector's notes.

36. OFFSHORE DETAILS.

No unusual problems were encountered in compiling details offshore from the high-water line.

37. LANDMARKS AND AIDS

Landmarks are to be obtained by the hydrographic party.

There are no nonfloating aids.

38. CONTROL FOR FUTURE SURVEYS

There are no recoverable topographic stations.

Nineteen (19) photo-hydro stations, with descriptions, were established prior to compilation. A number of photo-hydro stations were cut in by the hydrographic party on a print of the map manuscript. These additional stations have not been shown on the original map manuscript.

39. JUNCTIONS

A satisfactory junction has been made with Survey T-11163 to the east and T-11164 to the south.

There are no contemporary surveys to the north and west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with WELLS quadrangle, scale 1:25,000, 1949 edition. The shoreline near the mouths of the rivers have undergone some change, otherwise there are few differences of note.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with USC&GS Nautical Chart No. 1205, scale 1:80,000, published in June 1950 and bearing a print date of 28 July 1952. No outstanding differences were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

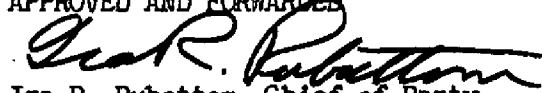
None.

ITEMS TO BE CARRIED FORWARD.

None


Richard A. Reece
Carto Photo Aid

APPROVED AND FORWARDED


Ira R. Rubottom, Chief of Party

48. GEOGRAPHIC NAME LIST.

BLACKSMITH BROOK
BOSTON AND MAINE RAILROAD
BRANCH BROOK

CRESCENT SURF

ELMS
ELMS ROAD

FERNALD BROOK
FOUR CORNERS

GELASPUS POINT
GOULDS ROCKS
GULF OF MAINE

KENNEBUNK BEACH
KENNEBUNK BEACH ROAD

Kennebunk River

LORDS POINT

MAINE
MERRILAND RIVER
MOUSAM RIVER

OCEAN VIEW CEMETERY
OLD ROAD
OLD WHARF

POPE CREEK

STATE 9

U. S. 1

WEBHAMNET RIVER
WELLS
WELLS BEACH

Names approved
 11-10-55. L. Heck

49. NOTES FOR THE HYDROGRAPHER

The information required has already been submitted. Reference
Item 38.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11162

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

(920) ST
1020 EDST
11 Aug 1953

TIDE COMPUTATION

PROJECT NO. Ph-114 T-11162

Time and date of exposure
Date of field inspection
Reference station
Subordinate station
Mean range
Ratio of ranges

PORTLAND, MAINE
CAPE PORPOISE, MAINE

8.7
1.0

	Time		Height feet	Height x Ratio of ranges	High tide Low tide Range of tide	Time		Low tide at Ref. Sta. Time difference Corrected time at Subordinate station	Time h. m.
	h.	m.				h.	m.		
High tide	12	05	8.6	8.4	High tide	12	05	Low tide at Ref. Sta.	5 58
Low tide	5	58	-0.1	-0.1	Low tide	0	00	Time difference	0 00
Duration of rise or fall	6	07		8.5	Range of tide	12	05	Corrected time at Subordinate station	5 58

	h. m.		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	feet	feet	Photo. No.
	h.	m.				
Time H. T. or L. T. Required time Interval	12	05	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	8.4 2.1 6.3	6.7 6.3 13.0	53-V-360
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		8.7 4.3 4	
Time H. T. or L. T. Required time Interval	12	05	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	8.4 3.8 4.6	7.5 4.6 12.1	"
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		8.7 3.4 -3	
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW			
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW			

Computed by R. A. Pease
Checked by P. 15

TIDE COMPUTATION

PROJECT NO. Ph-114 T. 11162

Time and date of exposure

Reference station

Subordinate station

Mean range

Ratio of ranges

Date of field inspection

Reference station

Subordinate station

Mean range

Ratio of ranges

	Time	
	h.	m.
High tide	17	34
Low tide	13	30
Duration of rise or fall	5	56

	Height feet	Height x Ratio of ranges
High tide	7.8	7.6
Low tide	1.0	1.0
Range of tide		6.6

	Time	
	h.	m.
High tide at Ref. Sta.	7	34
Time difference	0	00
Corrected time at Subordinate station	7	34

	Time	
	h.	m.
Low tide at Ref. Sta.	13	30
Time difference	0	00
Corrected time at Subordinate station	13	30

	h. m.	Ht. H. T. or L. T.	Tabular correction	Stage of tide above MLW	feet	Feature bares	Stage of tide above MLW	feet	Photo. No.
Time H. T. or L. T.	13 30	Ht. H. T. or L. T.			1.0	Feature bares		3.0	
Required time	11 15	Tabular correction			1.9	Stage of tide above MLW		2.9	48-18-53 (6)
Interval	2 15	Stage of tide above MLW			2.9	Feature above MLW		5.9	1-173
Time H. T. or L. T.	13 30	Ht. H. T. or L. T.			1.0	Feature bares		0.0	
Required time	11 30	Tabular correction			1.6	Stage of tide above MLW		2.6	
Interval	2 00	Stage of tide above MLW			2.6	Feature above MLW		2.6	1-172
Time H. T. or L. T.	17 34	Ht. H. T. or L. T.			7.6	Feature bares		3.5	
Required time	8 30	Tabular correction			0.4	Stage of tide above MLW		7.2	53-1-367
Interval	56	Stage of tide above MLW			7.2	Feature above MLW		10.7	
Time H. T. or L. T.		Ht. H. T. or L. T.				Feature bares		-8.7	
Required time		Tabular correction				Stage of tide above MLW		2.0	above M.H.W.
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			

Computed by

Checked by

TIDE COMPUTATION

PROJECT NO. Ph. 114 T. 11162

EDST

Time and date of exposure 10.45 13 Aug 53

Reference station

PORTLAND, MAINE

Mean range

8.7

Date of field inspection

Subordinate station

CAPE PORPOISE, MAINE

Ratio of ranges

1.0

	Time		Height feet	Height x Ratio of ranges	High tide Low tide Range of tide	Time		High tide at Ref. Sta. Time difference Corrected time at Subordinate station	Time		Low tide at Ref. Sta. Time difference Corrected time at Subordinate station
	h.	m.				h.	m.		h.	m.	
High tide	13	13	8.7	8.5		13	13		13	13	7 09
Low tide	7	04	40.2	0.2		7	04		7	04	0 00
Duration of rise or fall	6	09		8.3		6	09		6	09	7 09

	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	17	09	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.2 3.4 3.6	Feature bares Stage of tide above MLW Feature above MLW	4.0 3.6 7.6	53-V-175 (8)
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	3.0 3.6 6.6	"
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	1.0 3.6 4.6	" (5)
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	2.0 3.3 5.3	" (5)
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		

Computed by

Checked by

115

8

7

4

5

4

3

2

7



5

96

20

90

60

10

11

12

4

07	08	09
7.7	7.7	7.7
4	4	4
5:54	5:54	5:54

$$\frac{2}{4.9 - 0.2}$$

	H	M	H.T.
HT:	5	54	7.7
LT:	12	23	0.8

22 April 1953

Ph-114 - T-11162

FROM PREDICTED TIDES

Phonograph

53-4-359

19

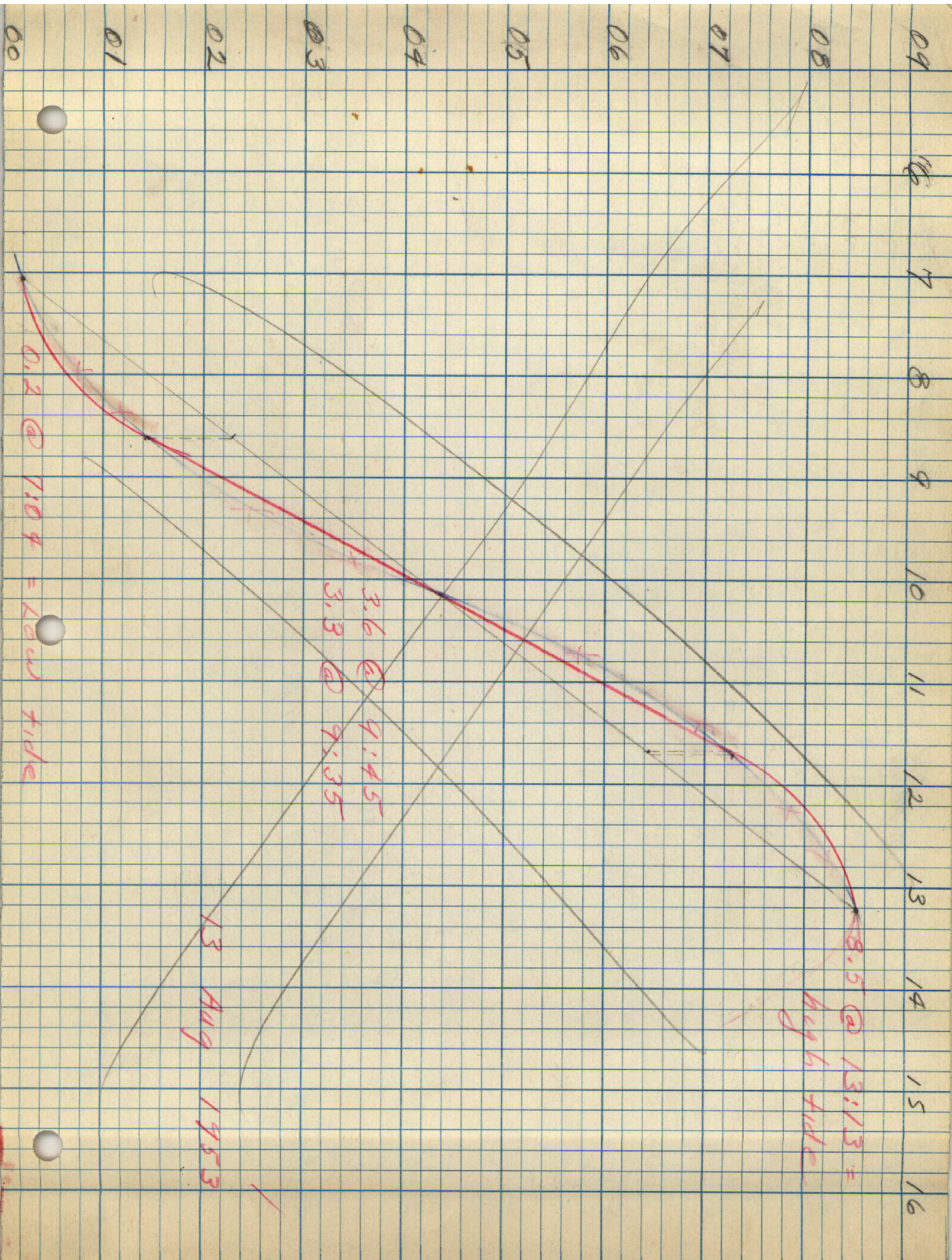
2.2 @ 10:30'
1.9 @ 10:42'

1.9 @ 10:42

0.84E 12.23

Duration	6:29
Range of tide	6.9

✓ RAR



Review Report T-11162
Shoreline Map
10 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. The 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 Gelaspus Pt.

T-11162 supersedes the older survey for charting the shoreline and adjacent culture and planimetry within the comparable area.

63. Comparison with Maps of Other Agencies:

U.S.E. 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-11162 supersedes these features on the quadrangle for charting purposes.

64. Comparison with Contemporary Hydrographic Surveys:

H-8162(?) (Blueprint No. 52781 of Boat Sheet) 1:10,000, 1954-5,
Ogunquit to Gelaspus Point, Maine

This boat sheet has the T-11162 shoreline and foreshore features. No changes to the shoreline were made during review.

The MLWL on T-11162 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. October 1954

A charted rock near shore and northwest of Gould rocks is not on the map manuscript nor on the boat sheet.

Two charted rocks west of the ledge between Gelaspus Point and Lord Point ^{are} is not on the map manuscript but ^{are} is on the boat sheet.

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 Landy
Chief, Review Section
Photogrammetry Division

W E Swanson
Chief, Photogrammetry Division

23 July 1958

Max B. Skelton
Chief, Nautical Chart Branch
Charts Division

[Signature]
Chief, Coastal Surveys Division