11150

Diag. Cht. No. 1206.

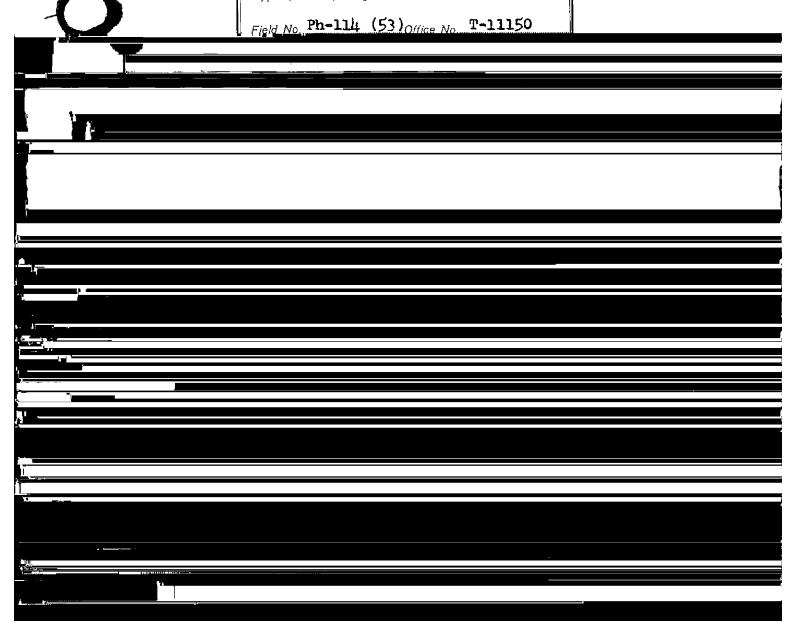
Form 50

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline



DATA RECORD

T - 11150

Project No. (II): Ph-114(53)

Quadrangle Name (IV):

Field Office (II):

Newburyport, Mass.

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 (ININ - 9 1300 ate 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):

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): 96C (MGS) 1934

41. 437 (1278.7 m.) Long.: 70° 56° 13. 887 (315.3m.)

Adjusted XYXXXXXXXXX

Plane Coordinates (IV):

State:

Zone:

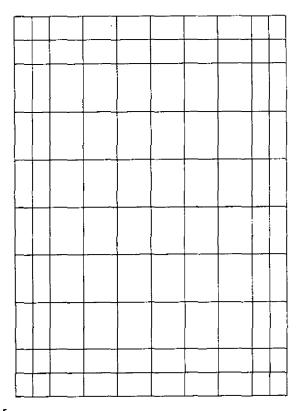
Y=

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. Bengnet Date: 28 April 1953

Planetable contouring by (II): (Shoreline Survey)

Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location):

Projection and Grids ruled by (IV): Jack Allen (W.O.)

Date: 14 April 1953

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

Date: 14 April 1953

Control plotted by (III): R. J. Pate Date: 22 May 1953

Control checked by (III): I. I. Saperstein Date: 25 May 1953

Radial Plot or Shore account M. M. Slavney Date: 17 May 1953

CONTRODEXTEXABLE by (III):

Planimetry Date:

Stereoscopic Instrument compilation (III): Inapplicable
Contours Date:

Manuscript delineated by (III): R. Dossett Date: 1 June 1953

Photogrammetric Office Review by (III): J. A. Giles Date: 4 June 1953

.

Elevations on Manuscript Inapplicable Date:

checked by (II) (III):

Form T-Page 3

M-2618-12(4)

Department of Agriculture, by Robinson Aerial Surveys, Inc. Camera (kind or source) (III):

		PHOTOGRAPHS (III)	
Number	Date	Time	Scale	Stage of Tide
DPP-14K-74	10-20-52	10:59	1:10,000	£ 7.55
75	11	10:59		n n
76	- II	11:00	ii	ii
77	íi .	11:01	ii	ú

Tide (III)

Reference Station:

PORTLAND

NEWBURYPORT, MERRIMACK RIVER Subordinate Station:

Subordinate Station:

MHW Ranges Range Range 8.9

10.2 0.9

Ratio of Mean | Spring

Washington Office Review by (IV): Lova J. Stee

Date: 1 Oct. 1954

Final Drafting by (IV): P.C. Lach

Date: 31 Dec 1954

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 1.5

Shoreline (More than 200 meters to opposite shore) (III): 16

-Choreline (Less than 200-meters to opposite shore) (III):-

Control Leveling - Miles (II): 0

Number of Triangulation Stations searched for (II): 14

Number of BMs searched for (II): 0

Recovered: 12 Recovered:

Identified: 6

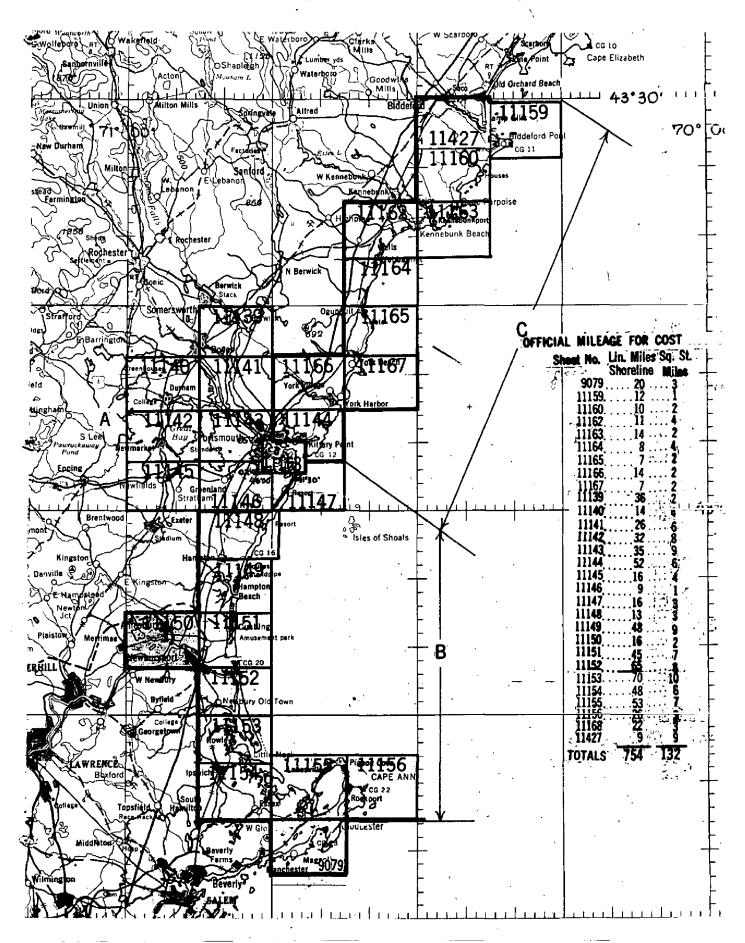
Number of Recoverable Photo Stations established (III): 0

Number of Temporary Photo Hydro Stations established (III): 17

Identified: 0

Remarks:

SHORELINE MAPPING PROJECT PH-114 BIDDEFORD POOL, MAINE TO CAPE ANN, MASS.



Summary to Accompany T-11150

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 1953 under instructions for project CS-355 (Plum Island Sound to Portsmouth Harbor) and CS-361 (Cape Porpoise Harbor).

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COMPILATION REPORT T-11150 (Ph-114)

PHOTOGRAMMETRIC PLOT REPORT.

Is filed as a part of Report T11147

31. DELINEATION.

Compiled graphically.

The photographs were of reasonably good scale.

The field inspection was adequate. Inshore field notes were not followed implicitly because stereoscopic examination of photographs agrees with the published (and field edited) quadrangle "NEWBURYPORT WEST".

32. CONTROL.

Sufficient secondary control was established and placement was such that no difficulty was encountered in securing detail points.

33. SUPPLEMENTAL DATA.

None.

34. CONTOURS AND DRAINAGE.

Contouring inapplicable.

Drainage was delineated photographically and according to field inspection notes.

35. SHORELINE AND ALONGSHORE DETAILS.

Delineated according to field inspection notes.

36. OFFSHORE DETAILS.

No unusual problems encountered.

37. LANDMARKS AND AIDS.

Reference to the second of

Landmarks will be submitted by the hydrographic party as per project instructions. There are no nonfloating sids for charting. One nonfloating aid (Kettle Rock Daybeacon) was located Photogrammetrically and its position is submitted on Form 567. w.a.R.

38. CONTROL FOR FUTURE SURVEYS.

Seventeen (17) photo-hydro points have been listed under Item 49. All of these were established by the intersection of not less than three rays. Consequently, no green circles (signifying two cut intersections) appear on the Map Manuscript.

39. JUNCTIONS.

A satisfactory junction has been made with T-11151 on the east. There is no contemporary survey to the north, west and south.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

46. COMPARISON WITH EXISTING MAPS.

Comparison has been made with Army Map Service quadrangle NEWBURYPORT WEST, scale 1:25,000, originally compiled in 1944 by U.S.G.S. by stereophotogrammetric method. No outstanding difference was noted.

47. COMPARISON WITH NAUTICAL CHARTS.

A comparison has been made with U.S.C.& G.S. Nautical Chart No. 1206, scale 1:80,000, published October 1948, corrected to 14 July 1952.

Except for the new bridge under construction, no differences were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Rudolph Dossetti Carto Photo Aid

APPROVED AND FORWARDED

J. E. Waugh, Chief of Party

Î Laran sere

48. GEOGRAPHIC NAME LIST.

B & M RATIROAD

CARR ISLAND

DEER ISLAND

EAGLE ISLAND

MASSACHUSETTS MERRIMACK RIVER

NEWBURYPORT

RAM ISLAND

SALISBURY POINT

TOWN CREEK

Names approved

10-8-54

a.j.w.

Î. Laman ran

49. NOTES FOR THE HYDROGRAPHER.

The following is a list of photo-hydro points for use by the hydrographer:

- 5001 Wht. lt. atop a small concrete structure about 4 feet high on north side of river.
- 5002 Red brick stack, south side of river, west of new bridge.
- 5003 East end of north pier of bridge under construction.
- 500h Light over center of draw span of old bridge.
- * 5005 Southeast corner of concrete pier supporting fixed bridge.
 - 5006 Southeast corner of house, north side of river.
 - 5007 Tall slender cedar tree, north side of river, off east end of Eagle Island.
 - 5008 Center of large tree, south side of river on point southeast of Eagle Island.
 - 5009 Center of duck blind, north side of river, east side of creek.
 - 5010 Center of duck blind, north side of river, opposite Carr Island.
 - 5011 Center of small shack, south side of river.
 - 5012 Red brick stack, south side of river.
 - 5013 Center of cedar on south side of Carr Island.
 - 5014 Center of lone cedar on north side of Carr Island.
 - 5015 Center of duck blind, northwest side of Ram Island.
 - 5016 Black stack near northeast corner of laundry.
 - 5017 Brick stack on northwest corner of Caldwell Distillery.
- * It is to be noted that the top of the southeast "tower" is the photo-hydro point.

PROJECT NO. Ph114(53)-1150

Reference station ___ PORTLAND_ Time and date of exposure $1\underline{100}$, $1\underline{0/20/52}$

Date of field inspection

Subordinate station ___ NEWBURYPORT, MERRIMACK RIVER

Ratio of ranges _0_9___

н. я 233 6 Time Ø Ħ Duration of rise or fall High tide Low tide

i 1. **180**003193

	Height	Height x Ratio
	feet	of ranges
High tide	9.5	8.55
Low tide	0.5	ζħ•
Range of tide		8.10

	F	Time
	н 	Ë.
High tide at Ref. Sta.	Ħ	33
Time difference	a	50
Corrected time at Subordinate station	27	ສ

Low tide at Ref. Sta. Time difference Corrected time at Subordinate station	Time	h. m.	5 24	50	भा १	
			Low tide at Ref. Sta.	Time difference	Corrected time at Subordinate station	

	ъ. Э.		feet		feet	Photo. No.
Time H. T. BKEXTZ Required time	12 23 11 00 1 23	Ht. H. T. XXXXXX Tabular correction Stage of tide above MLW	8.55 1.00 s	Feature bares 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	E & E	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	E 00 E	Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	L 0 L	Feature bares Stage of tide above MLW		
Time H. T. or L. T. Required time		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	I & I	Feature bares Stage of tide above MLW Feature above MLW	- · · · · -	

REVIEW BRANCH

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY NONFLOATING AIDS ONNEXAMENTAL FOR CHARTS

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the following objects which have (hiber land). Been inspected from seaward to determine their value as landmarks be

Ira B. Babetten have been checked after listing by K. Berrow Ald

		İ	. 	POSITION					TAIA	TRAH:	!
		LATI	LATITUDE #	LONG	LONGITUDE *	Ī —	LOCATION	DATE	ME CH		CHARTS
DESCRIPTION	SIGNAL	0 ,	" " D.M. WETERS		" D.P. METERS	DATUM		LOCATION	OHSMI OHSMI		, ,
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PHOTOGRAMMETRIC OFFICE REVIEW

T- 11150

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 17. Landmarks 18. Other alongshore physical features 19. Other along
shore cultural features
PHYSICAL FEATURES
20. Water features
instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical
features J.G.
CULTURAL FEATURES
27. Roads <u>J.G.</u> 28. Buildings <u>J.G.</u> 29. Railroads <u>J.G.</u> 30. Other cultural features <u>J.G.</u>
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. Gles William A. Raguer William A. Raguer Supervisor Review Section of Unit
40. Jesse A. Gres William A. Resure Supervisor, Review Section or Unit
41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and associans furnished by the field completion suprovibers, here analised to the manuscript. The

NAUTICAL CHARTS BRANCH

SURVEY NO. T. 11150

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
7-14-53	331	R. K. els Land	Before After Verification and Review
1-14-53	213	Johnalhy	Before After Verification and Review Completely is Used photostet of MS for verification-original not not filed
3-17-60	1206	2.M. albert	Before After Verification and Review no consistion
	F-107		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
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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.

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Review Report T-11150 Shoreline Map 5 October 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

T-355 1:10,000 1851 Newburyport and Environs

T-11150 supersedes the older survey for charting purposes.

63. Comparison with Maps of other Agencies

USE Newburyport, West 1:25,000 1947

Because of its more detailed shoreline and additional cultural data, T-11150 replaces these features on the quadrangle for charting purposes.

64. Comparison with Contemporary Hydrographic Surveys

H-8096 1:10,000 1953 Merrimac and Outer Coast Adjoining

* This survey was not available for comparison.

* This comparison has been made Thereare no conflicts

Comparison with Nautical Charts

6/25/57

331 1:20,000 July 1929 Corr. Sept. 1951 1206 1:80,000 Oct. 1948 Corr. Mar. 1954

11

T-11150 supersedes the charts for shoreline and culture in their common area. Offshore data is covered by H-8096 (ECFP-1253).

66. Accuracy

The radial plot report was not available so that the strength of the plot is not known to the reviewer.

The field inspection notes were wholly utilized and the delineation is well executed, so that the shoreline meets charting needs.

Reviewed by:

Approved by:

Division of Photogrammetry

Division of Charts

of Photogrammetry Chief, Division of Coastal Surveys