

11156

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 Office No. T-11156

LOCALITY

State Massachusetts

General locality Cape Ann

Locality Andrews Point to Brier Neck

1952-53

CHIEF OF PARTY

E.H.Kirsch, Chief of Field Party
I.R.Rubottom, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE December 17, 1959

B-1870-1 (1)

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DATA RECORD

T - 11156

Project No. (II): **Ph-111**

Quadrangle Name (IV):

Field Office (II): **Newburyport, Mass.**Chief of Party: **E. H. Kirsch**Photogrammetric Office (III): **Tampa, Fla.**Officer-in-Charge: **Ira R. Babotton**

Instructions dated (II) (III):

Project Instructions dtd 3/13/53
Supplement No. 1 " 3/28/53
" No. 2 " 4/30/53
" No. 3 " 5/6/53
" No. 4 " 5/26/53
" No. 5 " 6/25/53

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):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV): **7/3/58**Geographic Datum (III): **H. A. 1927**Vertical Datum (III): **M. M. 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): **TRATCHES ISLAND, 1849**Lat.: **42° 38' 10.364 (319.8m.)** Long.: **70° 34' 46.312 (1055.2m.)**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): **J. C. Lajoie**
H. R. Spies
L. F. Bagnat Date: **March 1953**
to
October 1953

Planetable contouring by (II): **Inapplicable** Date:

Completion Surveys by (II): Date:

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

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: **16 April 1953**

Control plotted by (III): **R. A. Reese** Date: **19 Oct. 1953**

Control checked by (III): **J. E. Johnson** Date: **21 Oct. 1953**

Radial Plot ~~on Stereoscopic~~ **H. H. Slawey** Date: **23 Nov. 1953**
~~Control extension~~ by (III):

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

Manuscript delineated by (III): **R. A. Reese** Date: **28 May 1954**

Photogrammetric Office Review by (III): **J. A. Giles** Date: **23 June 1954**

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

Camera (kind or source) (III): **Dept. of Agriculture - By Robinson Aerial Surveys, Inc., and
USC&S Fairchild Cartographic Camera "J"**

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
53-J-95 to 109, incl.	4/18/53		1:10,000	Low tide
DPP-9K 176 to 181, incl.	8/26/52	13:45	"	
DPP-9K 183 to 187, incl.	8/26/52	13:45	"	8.2' above MLLW
53-J-251 to 254, incl.	4/22/53		"	
53-J-257 to 259, incl.	4/22/53			

Tide (III)

Reference Station: **PORTLAND, MAINE**
Subordinate Station: **ROCKPORT, MAINE**
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
1.0	8.6	10.0

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): **3**
Shoreline (More than 200 meters to opposite shore) (III): **26**
~~Shoreline (Less than 200 meters to opposite shore) (III):~~
Control Leveling - Miles (II): **Inapplicable**
* Number of Triangulation Stations searched for (II): **32**
** Number of BMs searched for (II): **6**
Number of Recoverable Photo Stations established (III): **None**
Number of Temporary Photo Hydro Stations established (III): **54**

Recovered: **17** Identified: **7**
Recovered: **6** Identified: **1**

Remarks:

* 1 established
** Tidal Bench Marks

Summary to Accompany T-11156

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).

THE FIELD INSPECTION REPORT IS BEING

~~SUBMITTED SEPARATELY~~

Filed with Report ~~T9079~~
T11148

COMPILATION REPORT T-11156

PHOTOGRAMMETRIC PLOT REPORT.

~~Submitted separately~~

Filed with Report 9079

31. DELINEATION.

The graphic method of compilation was used.

The photographs made by the U. S. C. & G. S. Fairchild Cartographic Camera "J", 53 series, were of better scale than the DPP-9K (Dept. of Agriculture) series but were not as clear and did not give sufficient coverage in order to be used throughout.

Dry Salvages Island at Latitude 62° 40.3', Longitude 70° 34.1' could not be delineated because of insufficient photographic coverage and control. Reference Photogrammetric Plot Report.

* A number of features having published geographic names have been listed under Item 48 but were not mapped because of insufficient control or because they were not visible on the photographs.

32. CONTROL.

Reference Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA.

None.

34. CONTOURS AND DRAINAGE.

Contours are inapplicable.

Drainage has been shown according to field inspector's notes or photograph interpretation. No difficulties were encountered.

35. SHORELINE AND ALONGSHORE DETAILS.

The mean high-water line, low-water line, piers, bulkheads, rocks and other features along the shoreline have been shown according to field inspection notes, which are considered adequate.

Reference Item 7, Field Inspection Report.

36. OFFSHORE DETAILS.

No unusual problems were encountered in delineating off-shore details.

* Reference Item 31, Paragraph 4. w.a.g.

37. LANDMARKS AND AIDS.

Landmarks are to be submitted by the hydrographic party. Form 567 is being submitted herewith for nonfloating aids.

38. CONTROL FOR FUTURE SURVEYS.

Fifty-four (54) temporary photo-hydro stations are listed under Item 49.

No topographic stations were recovered or established.

39. JUNCTIONS.

Junctions have been made with Survey No. T-11155 to the west and T-9079 to the south. There is no contemporary survey to the north and east.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with Geological Survey Quadrangle, ROCKPORT, scale 1:31,680, 1945 edition, reprinted 1950 with corrections. The two ¹⁸ are in good agreement. Only minor changes have taken place.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with U. S. C. & G. S. Nautical Chart No. 243, scale 1:20,000, dated July 1938 (7th Edition), corrected to 25 May 1953. The two are in good agreement with the exception of minor details to be expected due to the passage of time.

Reference Item 31.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Richard A. Reece
Casto Photo Aid

APPROVED AND FORWARDED:

Ira R. Rubottom, Chief of Party

Review Report T-11156
Shoreline Map
12 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 vinylite, with corrections applied, serve as the final map manuscript.

62. Comparison with Registered Surveys:

T-341,	a 1:10,000	1851, 1910	Cape Ann, Mass.
T-4395	1:5,000	1928	Sandy Bay (Rockport)

T-11156 supersedes the older surveys for charting purposes.

63. Comparison with Registered Surveys:

USE	Rockport, Mass.	1:25,000	1953	(Copy of USGS
		1:31,680,	1950)	

Because of its more detailed shoreline and additional cultural data, T-11156 replaces these features on the quadrangle for charting purposes.

64. Comparison with Contemporary Hydrographic Surveys:

There is no recent survey. H-4850, 1928 is the latest survey. It covers Rockport Harbor.

65. Comparison with Nautical Charts:

243	1:20,000	July 1938, corr.	July 1951	Ipswich Bay
		to Gloucester Harbor, Mass.		

The following charted features within the area of T-11156 are not delineated because of lack of field inspection or of insufficient photograph coverage:

Oak Rock	Bartlett Rock
Twelvefoot Rock	Mitchell Rock
Rock near Straitsmouth Is.	Pigeon Rock
Avery Ledge	Little Salvages
Ledge in Rockport Harbor	Dry Salvages
Harbor Rock	

T-11156 supercedes the chart for shoreline and culture in their common area. Off-shore data is to be retained from former hydrographic surveys.

66. Accuracy:

Because of a well-held radial plot and of ample field inspection for interior, HWL, and LWL, this map meets the National Standards of Accuracy.

Reviewed by:

K. H. W. W. W.
for Lena T. Stevens

Approved by:

L. C. Lande
L. C. Lande, Chief
Review Branch

[Signature]
Chief, Cartographic Branch
Division of Photogrammetry

Max B. R. R.
Chief, Nautical Chart Branch
Division of Charts

L. W. Swanson
Chief, Division of Photogrammetry

23 Nov. 59

J. Bowie
Chief, Division of Coastal
Surveys

48. GEOGRAPHIC NAME LIST.

ANDREWS POINT
ATLANTIC OCEAN
*AVERY LEDGE

*BARTLETT ROCK
BRIER NECK

CAPE ANN
CAPE HEDGE

**DRY SALVAGES
*DODGE ROCK

EMERSON POINT

*FLAT GROUND
FLAT POINT

GAP HEAD
GULF OF MAINE

*HARBOR ROCK
HOOP POLE COVE

LANDS END
*LITTLE SALVAGES
LOHLOLLY COVE
*LONDONER
LONG BEACH

MASSACHUSETTS
*MILK BAR
MILK ISLAND
*MITCHELL ROCK

*OAK ROCK
OCEAN VIEW

PIGEON COVE (COMMUNITY)
PIGEON COVE
PIGEON COVE CHAPEL
*PIGEON ROCK

ROCKPORT
ROWE POINT

SANDY BAY

48. GEOGRAPHIC NAME LIST (CONTINUED)

SANDY BAY LEDGE
STRAITSMOUTH ISLAND
STATE 127

STRAITSMOUTH COAST GUARD STATION NO. 22

THACHER ISLAND
THACHER ROAD
TWELVEFOOT ROCK

WHALE COVE

*Feature not mapped because it could not be seen on
photographs.

**Feature not mapped because of insufficient control.
Reference Item 31.

49. NOTES FOR THE HYDROGRAPHER.

The following fifty-four (54) temporary photo-hydro stations were identified in the field and are listed for the benefit of the hydrographer:

- 5601 - East gable, brown shingle house, yellow trim.
- 5602 - Chimney at east gable, highest wing of "Long Beach Inn".
- 5603 - Northeast gable most northerly house.
- 5604 - East gable, two-story brown house.
- 5605 - Southerly gable, white house, blue roof.
- 5606 - Cupola, gray house, green roof.
- 5607 - Center of small sundeck, "Cape Hedge Inn".
- 5608 - Southeast gable, white house, dark trim.
- 5609 - Chimney near south gable of "Faraday Inn".
- 5610 - South gable of stone house.
- 5611 - Stone chimney of ranch type house.
- 5612 - Black and white chimney, gray house, dark roof.
- 5613 - Center of concrete lookout tower.
- 5614 - North gable, brown house.
- 5615 - Stone chimney, gray cottage, blue shutters.
- 5616 - Apex of roof of stone pavilion.
- 5617 - Gable of dormer, tan house, gray roof.
- 5618 - East gable, gray ^{gambrel} gambrel roof house, white trim.
- 5619 - Northeast corner of house foundation ruins.
- 5620 - Peak of center dormer on east slope of roof, large white house, green roof.

- 5621 - Northeast gable of dark brown house, red trim.
- 5622 - East chimney of large tan house, light green roof, sun porch on northeast corner.
- 5623 - Tall brick chimney, white house, shingle roof.
- 5624 - Tall radar tower.
- 5625 - West chimney of large gray and white house.
- 5626 - Gable of large bay in front of stone and shingled house.
- 5627 - Northeast gable of ^{sambrel} gambrel roof, red house.
- 5628 - Chimney of large white house with stone bulkhead in front.
- 5629 - West gable of gray building, green roof.
- 5630 - Corner of bulkhead.
- 5631 - Corner of bulkhead.
- 5632 - Yacht club cupola
- 5633 - Northwest gable, first house west of breakwater.
- 5634 - Northwest gable, brown "L" shaped house with porch.
- 5635 - East gable large shingled house with studio window.
- 5636 - Northerly gable of large shingled building with three windows in end.
- 5638 - Apex of roof of small stone pavilion.
- 5639 - Apex of roof of band stand.
- 5641 - East gable of white house with light green roof, two dormers on south slope of roof.
- 5643 - Corner of bulkhead.
- 5644 - Corner of bulkhead.
- 5645 - Southeast gable of shingled building.
- 5646 - Corner of bulkhead.

- 5647 - Apex of roof of small stone building.
- 5648 - Chimney of brown cottage with screened porch.
- 5649 - Tall gray stack, "Cape Ann Tool Works"
- 5650 - Corner of bulkhead.
- 5651 - Corner of bulkhead.
- 5652 - Center of end of breakwater.
- 5653 - White ventilator in center of roof, "Hotel Edward".
- 5654 - Large stone chimney on south gable of stone house.
- 5655 - Cupola at northeast corner of house.
- 5656 - North gable asbestos shingled house.
- 5657 - North gable, gray with white trim cow shed dormer, east roof slope.

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11156

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

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

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

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11156

Record of Application to Charts

[illegible]

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.