

11155

Diag. Cht. No. 1206.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-114b(53) Office No. T-11155

LOCALITY

State Massachusetts

General locality Cape Ann

Locality Halibut Point to Essex River

19 ~~52~~-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)

11155

DATA RECORD

T - 11155

Project No. (II): **Ph-114B (53)** Quadrangle Name (IV):

Field Office (II): **NEWBURYPORT, MASS.**

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

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

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

Instructions dated (II) (III): **13 March 1953**
Supplement No. 1 28 March 1953
 " **No. 2 30 April 1953**
 " **No. 3 6 May 1953**
 " **No. 4 26 May 1953**
 " **No. 5 25 June 1953**

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): **7/3/58**

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 (5) refer to sounding datum
 i.e., mean low water or mean lower low water

Reference Station (III): **COFF 1928**

Lat.: **42° 39' 07.921 (244.4 m.)** Long.: **70° 41' 37.559 (855.5 m.)** 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): **H. R. Spies**
L. F. Brugnot

Date: **Sept. 1953**

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

Date:

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

Date:

Mean High Water Location (III) (State date and method of location): **1 Sept. 1953**
Air Photo Compilation

Projection and Grids ruled by (IV): **J. A. (W.O.)**

Date: **13 April 1953**

Projection and Grids checked by (IV): **M. D. W. (W.O.)**

Date: **14 April 1953**

Control plotted by (III): **E. A. Resce**

Date: **20 Oct. 1953**

Control checked by (III): **J. E. Johnson**

Date: **20 Oct. 1953**

Radial Plot or Stereoscopic ~~Control extension~~ **H. H. Slavney**
 Control extension by (III):

Date: **23 Nov. 1953**

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

Date:

Date:

Manuscript delineated by (III): **R. R. Wagner**

Date: **8 June 1954**

Photogrammetric Office Review by (III): **J. A. Gilas**

Date: **27 Aug. 1954**

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

Date:

Camera (kind or source) (III): **Dept. of Agriculture by Robinson Aerial Survey, Inc., DPP Fairchild K-17 6" Nitrogen lens - Camera J**

Number	Date	Time	Scale	Stage of Tide
53-J-110 to 125 incl.	18 Apr. 1953	(Low-water photography)	1:10,000	
53-J-252 to 256 incl.	22 Apr. 1953	"	"	
53-J-258 to 262 incl.	"	"	"	
53-J-272	"	"	"	
DPP-9K-145 to 148 incl.	26 Aug. 1952	1:15 - 1:16	"	8.2
DPP-9K-159 to 163 incl.	"	1:25 - 1:27	"	n
DPP-9K-165 to 168 incl.	"	1:31 - 1:34	"	n
DPP-9K-176 to 180 incl.	"	1:43 - 1:47	"	n

Predicted tides

Reference Station:
Subordinate Station:
Subordinate Station:

**PORTLAND
ANNISQUAM**

Ratio of Ranges	Mean Range	Spring Range
1.0	8.5	9.9

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):

7

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

53

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

Control Leveling - Miles (II):

Inapplicable

Number of Triangulation Stations searched for (II):

30

Recovered:

20

Identified:

14

Number of BMs searched for (II):

3

Recovered:

3

Identified:

1

Number of Recoverable Photo Stations established (III):

None

Number of Temporary Photo Hydro Stations established (III):

154

Remarks:

***One station established**

****Tidal Bench Marks only**

Summary to Accompany T-11155

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 project CS 355 (Plum Island Sound to Portsmouth Harbor) and CS 361 (Cape Porpoise Harbor).

THE FIELD INSPECTION REPORT

Filed with Report T11148

~~WAS SUBMITTED SEPARATELY~~

COMPILATION REPORT T-11155

PHOTOGRAMMETRIC PLOT REPORT.

This report ^{is a part of Report T9079} ~~will be submitted separately.~~

31. DELINEATION.

The graphic method was used.

The 53-J series of photographs taken on 26 August 1953 was not used to an appreciable extent because of poor quality. The scale was very poor and the detail was not clear.

The 53-J series of photographs taken on 18 April 1953 (low-water photographs) were at poor scale. The projector was used for the delineation from these 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 photo interpretation.

35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline and alongshore details have been delineated according to the field inspector's notes and stereoscopic study. The inspection was adequate.

The low-water line was delineated from data furnished by the field inspection on the low-water photography.

36. OFFSHORE DETAILS.

No unusual problems were encountered during the delineation of offshore details.

37. LANDMARKS AND AIDS.

Landmarks are to be submitted by the hydrographic party.

Two (2) nonfloating aids, ESSEX BAY CHANNEL DAYBEACON 3 and ANNISQUAM RIVER DAYBEACON 27, are not shown on the manuscript. No data for the location of these aids could be found in this office.

38. CONTROL FOR FUTURE SURVEYS.

One hundred and fifty four (154) temporary photo-hydro stations were established and are listed under Item 49.

39. JUNCTIONS.

Survey No. T-11154 to the west, Survey No. T-11156 to the east and Survey No. T-9079 to the south are in agreement. There is no contemporary survey to the north.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with Army Map Service Quadrangle, GLOUCESTER, MASS., scale 1:31,680, edition of 1944, reprinted 1949 with corrections. The two are in fair agreement.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with USCGS Nautical Chart No. 233, scale 1:10,000, published in September 1942, corrected to 27 May 1953. The two are in fair agreement. Some small islands in the river appearing on the chart are not shown on the manuscript. Some of these islands are shown as grass in water. Comparison was also made with USCGS

Nautical Chart No. 243, scale 1:20,000 published in July 1938, corrected to 25 May 1953. The two are in fair agreement. There are some rocks appearing on the chart in ESSAK BAY that were not identified by the field inspector which have not been shown. The map listed in Item 46 does not appear to be the source of topography.

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

Review Report T-11155
Shoreline Map
20 December 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-341 & a 1:10,000 1851, 1910 Cape Ann

Some off-shore rock ledges between Bay View and Lanesville are not on T-11155 because they were not visible on the photographs and field inspection did not extend so far from shore.

T-396 & a 1:10,000 1852-3, 1910, Annisquam

T-556 & a 1:10,000 1852-3, 1910, Essex Bay-Castle Neck.

The rocks in Essex Bay are not delineated on T-11155. Field inspection indicated grass only.

T-4394 1:5,000 1928, Ipswich Bay-Annisquam River

Islands in Jones River and Mills River are mapped as grass-in-water on T-11155. No islands appear in Annisquam River, but low-water and flats include the areas mapped as islands on T-4394.

Except for off-shore rocks or ledges not covered by field inspection, T-11155 supersedes the older surveys for charting purposes.

63. Comparison with Maps of Other Agencies:

USE Gloucester, Mass. 1:25,000 1950

T-11155 supersedes the quadrangle for shoreline and planimetry for charting the area of T-11155.

64. Comparison with Contemporary Hydrographic Surveys:

There is no contemporary hydrographic survey.

65. Comparison with Nautical Charts:

233 1:10,000 ed. Sept., 1942 corr. May, 1952

243 1:20,000 ed. July, 1938 corr. July, 1951

Landmarks charted but not on T-11155.

Tower and chimney at Twopenny Loaf.

Radio: This appears to be on the same building as hydro 55117 (gable of house).

Flagstaff: This appears to be on the same building as hydro 55112 (chimney of house).

Except for off-shore rocks not delineated, T-11155 supersedes the shoreline and culture of the charts in their common areas.

66. Accuracy

This map manuscript meets the National Standards of Accuracy.

Reviewed by:

for K. H. Mahi
Lena T. Stevens

APPROVED:

L. C. Kande
Chief, Review Section
Div. of Photogrammetry

Max Skutumpah
Chief, Nautical Chart Branch
Div. of Charts

H. W. Swanson
Chief, Div. of Photogrammetry
24 Nov '59

J. Bowie
Chief, Div. of Coastal Surveys

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48. GEOGRAPHIC NAME LIST.

All names shown are base map names. No additions or deletions were submitted by the field inspector.

ANNISQUAN
ANNISQUAN RIVER
ANNISQUAN YACHT CLUB
ATLANTIC STREET

BAESON POINT
BAY VIEW

CASTLE NECK
CASTLE NECK RIVER
COFFIN BEACH
COLES ISLAND
CONCORD STREET
CONOMO POINT
CROSS ISLAND
CITY LANDING

DAVIS NECK

ESSEX BAY
ESSEX RIVER

FARM CREEK
FARM POINT
FERRY HILL
FOLLY COVE
FOLLY POINT

GOOSE COVE
GRAINTE STREET
GREAT BANK

HALIBUT POINT
HODOKINS COVE
HOLLY STREET

IPSWICH BAY

JONES RIVER

LANES COVE
LANESVILLE
LOBSTER COVE
LONG ISLAND
LOCUST GROVE CEMETERY

48. GEOGRAPHIC NAME LIST (CONTINUED)

MASSACHUSETTS
MILL BROOK
MILL RIVER

OAK ISLAND

PEARCE ISLAND
PLUM COVE

RAM ISLAND
RIVERDALE
RIVERVIEW
ROCKPORT
RUST ISLAND

SEASIDE CEMETERY
STATE HIGHWAY 127
STATE HIGHWAY 128
SUNSET HILL

THATCHER ROAD
THURSTON POINT
TOMMY ISLAND
TWO PENNY LOAF

WALKER CREEK
WASHINGTON STREET
WHEELER POINT
WHEELER STREET
WINGERSHEEK BEACH

19. NOTES FOR THE HYDROGRAPHER.

The following photo-hydro stations were identified in the field and are listed for the use of the hydrographer:

- 5436 - Cupola, red barge, tin roof.
- 5446 - Southerly gable, red building.
- 5501 - East gable dark gray house, white trim.
- 5502 - NW gable light tan house.
- 5503 - Cupola with weathervane, large slate roof house.
- 5504 - East gable large stone house, light roof.
- 5505 - Restaurant cupola.
- 5506 - Apex of roof of square cupola, at westerly end of yellow house, red roof.
- 5507 - Front gable, brick house.
- 5508 - Cupola, shingled barn, light brown roof.
- 5509 - North gable, gray cottage.
- 5510 - Corner of breakwater.
- 5511 - Westerly gable of large warehouse.
- 5512 - NE gable of gambel roof house on rock ledge.
- 5513 - Chimney, large brown house on hill.
- 5514 - Lanesville, Sacred Heart Church spire.
- 5515 - North gable of old house.
- 5516 - NW gable of large warehouse.
- 5517 - West gable of building on wharf.
- 5518 - Bayview, Methodist Church spire.
- 5519 - Metal chimney, Consolidated Lobster Company.
- 5520 - Flagpole at center of sundeck, green roof house.
- 5521 - Westerly gable of combination house and garage.
- 5522 - Apex of roof, octagonal shape, brown house.
- 5523 - West gable of large brown and white house with porch on 3 sides.
- 5524 - Gable of northerly wing of large, white "U" shaped house.
- 5525 - Spire, Annisquam Village church.
- 5526 - SW gable of gray house with angle wing.
- 5527 - Center chimney on SW slope of roof of large stucco house.
- 5528 - Corner of bulkhead.
- 5529 - Corner of bulkhead.
- 5530 - Corner of bulkhead.
- 5531 - Corner of bulkhead.
- 5532 - Corner of bulkhead.
- 5533 - Corner of bulkhead.
- 5534 - SE gable, main wing of Yacht Club.
- 5535 - West gable of house, skylights in roof.
- 5536 - North gable large shingled building.
- 5537 - West gable, large shingled house, red roof.
- 5538 - North gable tan and white house.
- 5539 - West gable yellow building.
- 5540 - Highest point, large boulder
- 5541 - West gable, small shed.
- 5542 - Corner of rock bulkhead.

- 5543 - Riverdale Church spire.
- 5544 - West gable shingled building.
- 5545 - Chimney at north gable, gray house.
- 5546 - Monument.
- 5547 - Chimney, yellow house, red roof.
- 5548 - West gable, white cottage, black roof.
- 5549 - East gable red cottage.
- 5550 - Chimney, large yellow house, gray-green roof.
- 5551 - East gable, gray house, light brown roof.
- 5552 - East gable, asbestos shingled house, green roof.
- 5553 - Southwest corner of bulkhead.
- 5554 - North gable, gray house, green roof.
- 5555 - Apex roof, dark brown house.
- 5556 - West gable of yellow shingled house.
- 5557 - Brick chimney, white house, black trim.
- 5558 - East gable, small cottage.
- 5559 - West gable house.
- 5560 - Corner of bulkhead.
- 5561 - South gable house.
- 5562 - North gable of pink cottage.
- 5563 - Corner of bulkhead.
- 5564 - NW gable of house.
- 5565 - NW gable of house.
- 5566 - SE corner of fixed pier.
- 5567 - West gable, two-story house, porch on north side.
- 5568 - NW corner of porch, house on piles.
- 5569 - West gable, white house, light green roof.
- 5570 - SE corner, red modernistic house.
- 5571 - Northerly corner of tan modernistic house.
- 5572 - Chimney, gray modernistic house, light green roof.
- 5573 - Stone chimney, modernistic house.
- 5574 - Cupola, southeast corner brown shingled house, light roof.
- 5575 - Northerly gable, house on hill.
- 5576 - Southerly gable, yellow house, green roof.
- 5577 - White chimney with black top, white house, black roof.
- 5578 - Apex red roof, gray house.
- 5579 - Chimney, brown modernistic house.
- 5580 - Highest point of boulder.
- 5581 - Front gable, shingled house, stone foundation.
- 5582 - Southeast corner of pier.
- 5583 - North gable of cottage.
- 5584 - East gable of house.
- 5585 - Front gable of red house.
- 5586 - Corner of bulkhead.
- 5587 - Center of farthest offshore, bare boulder.
- 5588 - Northeast gable of tall narrow building.

- 5589 - Apex of garage roof.
- 5590 - Chimney with TV aerial at apex of house roof.
- 5591 - North gable, gray cottage, green and red roof.
- 5592 - East gable, yellow cottage, gray roof.
- 5593 - Southeast corner of pool.
- 5594 - Chimney, brown house, red roof.
- 5595 - Highest point of large boulder.
- 5596 - North gable of boat house.
- 5597 - East gable, brown and white house.
- 5598 - East gable, gray shingled house, green roof.
- 5599 - Northwest bridge tower.

- 55100 - Northeast bridge tower.
- 55101 - Northeast gable, large building in boatyard.
- 55102 - North gable of house.
- 55103 - Highest point of painted rock.
- 55104 - Small pavilion at corner of bulkhead.
- 55105 - Chimney at east end of stone house.
- 55106 - West gable, large shingled house.
- 55107 - Northwest gable, yellow house, white trim, red shutters.
- 55108 - North gable, large green house, white trim.
- 55109 - Chimney at south gable large building, tan roof.
- 55110 - North gable of green shingled boathouse.
- 55111 - Easterly of two white chimneys with black tops.
- 55112 - Most northerly chimney of large house.
- 55113 - Corner of concrete bulkhead.
- 55114 - Center of end of rock pier.
- 55115 - Northeast gable, brown house, green roof.
- 55116 - Stone chimney on north wing of brown house.
- 55117 - Northerly gable, white house, green roof.
- 55118 - East gable, white house, green roof.
- 55119 - East gable green cottage, black roof.
- 55120 - South gable of white cottage.
- 55121 - Inside, northwest corner of pool ruins.
- 55122 - North gable of house.
- 55123 - East gable of barn.
- 55124 - West gable of barn.
- 55125 - North gable of house.
- 55126 - Brick chimney, gray house, green roof.
- 55127 - Chimney of white and green house, gray roof.
- 55128 - East gable of white house.
- 55129 - East gable yellow house, black trim.
- 55130 - Northerly gable of red barn.
- 55131 - West gable, tan house, red roof.
- 55132 - Chimney of stone house ruins.
- 55133 - North gable, three-story dark brown house.
- 55134 - Hexagonal tower.
- 55135 - East gable, light gray house.

55136 - End of stone fence.
55137 - Northeast gable, large white house, gray roof.
55138 - Northeast gable of house.
55139 - Front gable, shingled house.
55140 - West gable of large barn.
55141 - South gable of most southerly cottage.
55142 - Cupola, large house.
55143 - Gable of gray house.
55144 - Chimney at westerly gable, shingled house with studio window.
55145 - South gable, cottage.

5637 - Silver spire, gilt cross, Finnish Lutheran Church.
5640 - Chimney of white concrete, modernistic building.
5642 - North gable of large granite building with two chimneys.

79102 - Corner of base of abutment.
79103 - Southeast bridge tower.
79104 - Southwest bridge tower.
79105 - Corner of base of abutment.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

1

NONFLOATING ADJUSTED FINANCIALS FOR CHARTS

TO BE CHARTED } **STRIKE OUT ONE**

Tampa Photogrammetric Office, Tampa, Fla. 23 Feb.

1954

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~the~~ the charts indicated.

The positions given have been checked after listing by

— 10 —

Ira H. Robertson *Chief of Party.*

TYPE

Mr. J. Robert Brown

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11155

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

5a. Classification label Unclassified

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy H.H.S. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) XX 7. Photo hydro stations J.G. 8. Bench marks J.G.
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 J.G. 37. Descriptive Report J.G. 38. Field inspection photographs J.G. 39. Forms J.G.

40. Jesse A. Giles William A. Resure
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

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11155

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.