

11438

Diag. Cht. Nos. 1210-2 and 1211-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-1142 Office No. T-11438

LOCALITY

State Rhode Island

General locality Rhode Island Sound

Locality Point Judith Neck

1954

CHIEF OF PARTY

L.F.Woodcock, Chief of Field Party
W.F.Deane, Balto. District Office

LIBRARY & ARCHIVES

DATE April 1962

USCOMM-DC 5087

11438

DATA RECORD

- 2 -

T -11438

Project No. (II): **Ph-142** Quadrangle Name (IV):

Field Office (II): **Groton, Conn.** Chief of Party: **L. F. Woodcock**
Photogrammetric Office (III): **Baltimore, Md.** Officer-in-Charge: **William F. Deane**
Instructions dated (II) (III): **8 June 1954, 18 Aug. 1954,** Copy filed in Division of
15 Sept. 1955 Photogrammetry (IV)

Method of Compilation (III): **Air Photographic (Kelsh Plotter)**Manuscript Scale (III): **1:10,000**Stereoscopic Plotting Instrument Scale (III): **1:4000**
(Pantograph ratio 2/5)Scale Factor (III): **1.000**

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): **29 Aug 1960**

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): **N.A. 1927**

Vertical Datum (III):

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): **GREENE, 1940**Lat.: **41° 23' 00.814"**Long.: **71° 28' 41.858"**Adjusted
~~Uncorrected~~

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.

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

SHORELINE
SURVEY

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

DATA RECORD

Field Inspection by (II): W. M. Reynolds

Date: Aug. 1954

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

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

21 April 1956; Photogrammetric (Kelsh)

Projection and Grids ruled by (IV): Austin Riley

Date: 7 Oct. 1954

Projection and Grids checked by (IV): Austin Riley

Date: 8 Oct. 1954

Control plotted by (III): J. B. McDonald

Date: 10 Aug. 1955

Control checked by (III): J. D. Perrow, Jr.

Date: 10 Aug. 1955

Radial Plot or Stereoscopic Control extension by (III): C. E. Cook

Date: ---

Stereoscopic Instrument compilation (III): Planimetry D. M. Brant

Date: 1 April 1956

~~XXXXXXXXXX~~

Date: ----

Manuscript delineated by (III): C. A. Lipscomb

Date: 19 Oct. 1956

Photogrammetric Office Review by (III): J. D. McEvoy

Date: 10 July 1956

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

Date: ----

Camera (kind or source) (III): USC&GS Type "W" 6" focal length

| Number | Date | PHOTOGRAPHS (III) Time (EST) | Scale | Stage of Tide |
|---------------------|---------|---------------------------------|----------|----------------|
| 54-W-996 thru 1000 | 4/22/54 | 1200 | 1:20,000 | 1.8' above MLW |
| 54-W-1004 thru 1007 | " | 1205 | " | 1.9' above MLW |

Tide (III)
From predicted tables.

Reference Station: Newport, R. I.
Subordinate Station: Pt. Judith Harbor
Subordinate Station:

| Ratio of Ranges | Mean Range | Spring Range |
|--------------------|---------------|-----------------|
| -- | 3.5 | 4.4 |
| 0.9 | 3.1 | 3.9 |

Washington Office Review by (IV):

Date: APRIL 1, 1960

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date: AUG. 29, 1960

Land Area (Sq. Statute Miles) (III): 9

Shoreline (More than 200 meters to opposite shore) (III): 11

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 18 Recovered: 11 Identified: - 6

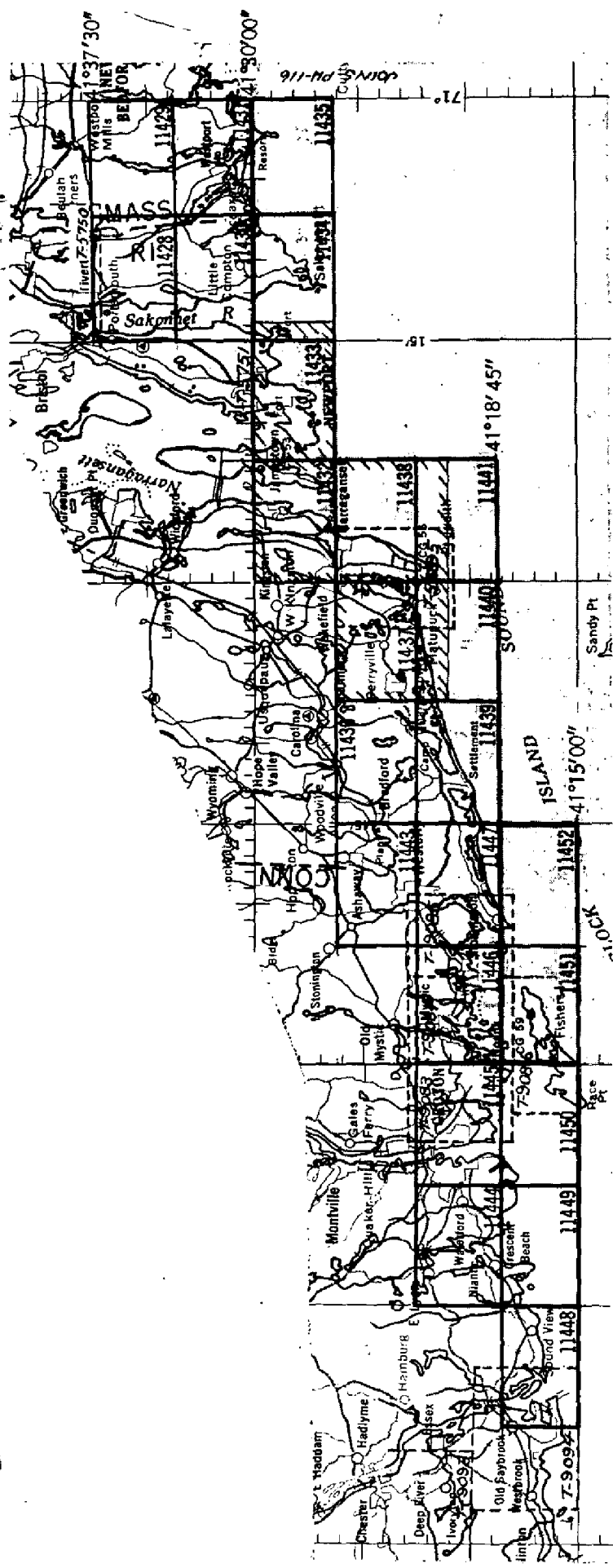
Number of BMs searched for (II): 3 Recovered: 3 Identified:

Number of Recoverable Photo Stations established (III): None

Number of Temporary Photo Hydro Stations established (III): None

Remarks:

Block Island Sd., R.I. to N. River, Conn.



72° 22' 30"

72°

71°

OFFICIAL MILEAGE FOR COST ACCOUNTS

| SHEET NO. | LIN. MI. | SHORELINE | AREA | SQ. MILES |
|-----------|----------|-----------|------|-----------|
| 11428 | 12 | | 23 | |
| 11429 | 10 | | 26 | |
| 11430 | 10 | | 24 | |
| 11431 | 35 | | 22 | |
| 11432 | 27 | | 17 | |
| 11433 | 26 | | 7 | |
| 11434 | 17 | | 8 | |
| 11435 | 4 | | 1 | |
| 11436 | 10 | | 16 | |
| 11437 | 22 | | 25 | |
| 11438 | 11 | | 9 | |
| 11439 | 25 | | 13 | |
| 11440 | 8 | | 2 | |
| 11441 | 3 | | 1 | |
| 11443 | 8 | | 9 | |
| 11444 | 35 | | 25 | |
| 11445 | 43 | | 24 | |
| 11446 | 40 | | 15 | |
| 11447 | | | | 28 |
| 11448 | | | | 30 |
| 11449 | | | | 20 |
| 11450 | | | | 8 |
| 11451 | | | | 14 |
| 11452 | | | | 4 |
| TOTALS | | | | 450 |
| | | | | 308 |

Indicates shoreline revision
Topographic revision

SUMMARY
PROJECT PH 1142
TWENTY-FOUR

This project consists of 3 3/4' X 7 1/2', 1:10,000 scale shoreline maps. Three manuscripts T-11444, T-11448 and T-11449 were compiled by the Tampa District Office. The remainder were compiled by the Baltimore District Office.

The objective of the project was to provide shoreline and horizontal control data for contemporary hydrographic surveys and base maps for nautical charts.

It extends from the New Bedford, Connecticut area west to Old Saybrook along Block Island Sound and includes parts of Massachusetts, Rhode Island, and Connecticut.

Aerial photography was taken in the spring of 1954 with the "W" camera at 1:20,000 scale and supplemental nine-lens at 1:10,000 at low water. Some additional photography was flown in May 1956 for revision purposes.

Control was extended by stereoplanigraph and multiplex methods. Compilation was accomplished by Kelsh.

More stations were identified than necessary for this project. This was due to the fact that the original intentions were to extend horizontal control by radial line plot methods. Subsequent purchase of an additional first order bridging instrument reduced the need for the density of control. This item is the subject of supplemental instructions dated 15 September 1955, Paragraph 5. The field phase of control identification was initiated in June 1954.

The project is classified as Shoreline yet instructions to the field dated 8 June 1954, Paragraph 9 "Interior Inspection" states "the inland limits of inspection and delineation are the map limits".

- 2 -

Five contemporary hydrographic surveys dated 1956-57 have been completed in this area by visual hydrographic methods.

This ~~All sheets~~ ^{was} scribed and transmitted to the Washington Office by *Baltimore District Office*

Final Review was completed by April 1960.

Submitted by:

A. K. Heywood

2. AREAL FIELD INSPECTION

This shoreline sheet is located in southern Rhode Island. The area is rural except for the village of Narragansett Pier and the area immediately adjacent to the shore which is chiefly a resort area and no other sizable industry is in evidence.

Photography was of recent date and of good quality and no difficulty was encountered in their interpretation in the field.

Field investigation was completed in August prior to the hurricane of 31 August and is believed complete to that time. The hurricane did extensive damage to the coastal areas and revisions will be required as the area was not inspected after the hurricane.

Field inspection was also completed prior to receipt of Instructions, Project Ph-142(Field) Supplement 3, and the inspection was not revised to comply therewith.

Field inspection was performed on the following photographs: 54-W-996 through 54-W-999; 54-W-1003 through 54-W-1007; and nine-lens photographs 43625, 43626 and 43627.

No items were deliberately left for the field editor.

Notes have been made in violet ink on the photographs of changes made by hurricanes.

3. HORIZONTAL CONTROL

All Coast and Geodetic Survey control was searched for and where recovered was identified except where density of the stations made it unnecessary.

No control of any other agency was searched for or recovered.

The following stations were reported lost: POOR FARM (USE) 1909; DEPEW (USE) 1909; HAZARD CASTLE 1869; AUSTIN 1839; WHITE HOUSE CHIMNEY 1839; BATTERY 109 1943; and TOWER NO 7 1943.

4. VERTICAL CONTROL

The following tidal bench marks were recovered: POINT JUDITH POND, NORTH END, TIDAL BENCH MARKS 1(1948), 2(1948) and 3(1948).

5. CONTOURS AND DRAINAGE

No contouring was required for this shoreline sheet.

Drainage, which is not self-evident on the photographs, has been inked in. Swamp limits have been indicated where necessary for clarity.

6. WOODLAND COVER

Woodland cover is adequately covered by the field inspection photographs.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was inspected at intervals by walking along the shore and has been indicated by symbol on the photographs.

The area was visited at low water and where the low water line was any appreciable distance from the mean high water line it was indicated on nine-lens photographs 43625, 43626 and 43627.

The foreshore is steep and rocky in most places. The exception being along the short stretches of sand beaches. In these areas the slope is gradual from the mean high water line to the mean low water line.

Bluffs and cliffs, where they exist, are adequately covered by the field inspection photographs.

All docks, wharves, piers, etc. are adequately covered by the field inspection photographs.

The submarine cables in the area, as shown on the published charts, could neither be confirmed or denied. There are no cable signs along the beach.

There are no other shoreline structures in the area.

8. OFFSHORE FEATURES

The elevations for two offshore rocks was determined by hand level. The date and height above the water was noted on the photographs.

9. LANDMARKS AND AIDS

Landmarks for nautical charts are adequately covered by Form 567 and the photographs.

There are no fixed aids to navigation.

10. BOUNDARIES, MONUMENTS AND LINES

There are no state boundaries within this sheet.

11. OTHER CONTROL

None was established.

12. OTHER INTERIOR FEATURES

All roads and buildings have been classified in accordance with the project instructions dated 8 June 1954. Class 1 buildings were indicated by a red "x" upon the image of the building. Class 2 buildings were indicated by the numeral 2 in red ink upon the image of the building.

There are no bridges or cables over navigable waters.

There are no airports or landing fields in the area.

13. GEOGRAPHIC NAMES

Special Report, Geographic Names, Project Ph-142.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Special Report, Geographic Names, Project Ph-142, to be submitted to Washington Office at a later date.

Letter of Transmittal No. Ph-142-4, Form 567, Landmarks for Charts, to be submitted to Washington Office at a later date.

Letter of Transmittal No. Ph-142-15, Data, Map T-11438, forwarded to Washington Office

OCT 25 1954

Submitted
20 October 1954

William M. Reynolds
William M. Reynolds
Carto. Survey Aid

Approved & Forwarded

OCT 25 1954

Lorin F. Woodcock

Lorin F. Woodcock
Chief of Party

MAP T. 11438 PROJECT NO. Ph-142 SCALE OF MAP 1:10,000 SCALE FACTOR

| STATION | SOURCE OF INFORMATION (INDEX) | DATUM | LATITUDE OR ψ -COORDINATE LONGITUDE OR x -COORDINATE | DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK) | DATUM CORRECTION | N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK) | FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK) |
|---|-------------------------------|-------|--|---|------------------|---|--|
| Battery 108 1943 | 1/78 499/21 | 1927 | 41 22 53.405 71 29 01.560 | 1647.5 (203.5) 36.3 (1357.8) | 1851.0 1394.1 | | |
| BC 2 1943 | 1/78 499/21 | 1927 | 41 22 48.317 71 29 24.980 | 1490.6 (360.4) 580.5 (813.7) | 1851.0 1394.2 | | |
| B ₁₀ 1, 1943 10 | 1/85 499/21 | 1927 | 41 23 00.231 71 28 43.137 | 7.2 (1843.8) 1002.3 (391.8) | 1851.0 1394.1 | | |
| B ₇ 1, 1943 7 | 1/84 499/21 | 1927 | 41 23 00.488 71 28 43.137 | 15.1 (1835.9) 1002.3 (391.8) | 1851.0 1394.1 | | |
| Dillon (USE) 1909 | 1/135 499/10 | 1927 | 41 26 12.458 71 28 31.043 | 384.3 (1466.7) 720.7 (672.3) | 1851.0 1393.0 | | |
| S.S. Dillon (USE) 1909 | | 1927 | 41 26 71 28 | 399.2 (1491.8) 734.6 (658.4) | 1851.0 1393.0 | | |
| Dr. Wharton's House, East Chimney, 1869 | 1/146 499/10 | 1927 | 41 24 56.10 71 27 16.60 | 1730.7 (120.3) 3285.5 (1007.9) | 1851.0 1393.4 | Pricked direct | |
| Hazard Tower, 1940 | 1/41 500/13 | 1927 | 41 24 55.189 71 27 26.978 | 1702.6 (148.4) 626.5 (766.9) | 1851.0 1393.4 | Pricked direct | |
| Greene, 1940 | 1/43 499/19 | 1927 | 41 23 00.814 71 28 41.858 | 25.1 (1825.9) 972.6 (421.5) | 1851.0 1394.1 | Pricked direct | |
| Kenyon North (USE), 1909 | 1/116 499/10 | 1927 | 41 23 49.725 71 29 19.455 | 1534.0 (317.0) 452.0 (941.9) | 1851.0 1393.9 | Pricked direct | |
| Point Judith Tank, 1940 | 1/41 499/22 | 1927 | 41 23 23.533 71 29 01.463 | 726.0 (1125.0) 34.0 (1360.0) | 1851.0 1394.0 | Pricked direct | -10- |

1 FT. = 3048006 METER

COMPUTED BY J. B. McDonald

DATE 4 August 1955

CHECKED BY J. D. Perrow, Jr.

DATE 10 August 1955

M-2388-12

COMPILATION REPORT
Project Ph-142
T-11438

Photogrammetric Plot Report:

Models were held to horizontal control points and pass points from Washington Office (Stereoplanigraph) bridging.

31. DELINEATION

The Kelsh plotter was used for delineation on vinylite projection. The final manuscript was prepared in two halves by standard scribing methods. Field inspection was good.

Inland changes have been made from 1956 photographs.

32. CONTROL

Horizontal control was adequate. Vertical control is inapplicable.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Drainage is complete. Contours are inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

All shoreline details are from field inspection which was thorough. Low water lines are based on field inspection from nine-lens photograph 43626. 1956 photography was used for shoreline changes (56-W-148 thru 150). Most of the shoreline appears to have changed little, except for pier deletions and new piers. Without the aid of new shoreline inspection other possible changes could not be made with certainty.

36. OFFSHORE DETAILS

Notes to hydrographer were submitted on 30 March 1956.

37. LANDMARKS AND AIDS

Form 567 has been submitted for two landmarks.

38. CONTROL FOR FUTURE SURVEYS

No topographic stations have been established.

39. JUNCTIONS

Junctions have been made as follows:

To the north with T-11432.

To the south with T-11441.

To the west with T-11437.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. through 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

U.S.G.S., 7½ minute quadrangle, Narragansett Pier, R. I., scale 1:31,680, 1944.

USC&GS Shoreline Survey No. T-5095, scale 1:10,000, May 1949.

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 1210, scale 1:80,000 at Latitude 41° 27', published at Washington, D. C., revised 3/31/56.

Items to be applied to Nautical Charts immediately: None.

Items to be carried forward: None.

Respectfully submitted
13 November 1957

Joseph D. McEvoy

Joseph D. McEvoy
Carto. (Photo.)

Approved and forwarded

William F. Deane

William F. Deane,
CDR, C&GS
Baltimore District Officer

PHOTOGRAMMETRIC OFFICE REVIEW

T-11438

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

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads ☒ 28. Buildings ☒ 29. Railroads ☒ 30. Other cultural features ☒

BOUNDARIES

31. Boundary lines ☒ 32. Public land lines ☐

MISCELLANEOUS

33. Geographic names ☒ 34. Junctions ☒ 35. Legibility of the manuscript ☒ 36. Discrepancy overlay ☐ 37. Descriptive Report ☒ 38. Field inspection photographs ☒ 39. Forms ☒
40. Joseph D. McEvoy Henry P. Fisher
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:

T-11438. Geographic Names.

Black Point
Bluff Hill Cove
Bog Rock

Cedar Point
Champlin Cove
Clarke Road
Cornins Beach
Crooked Brook

Dead Man Brook

Earls Road (not Earles)

Foddering Place
Frank Neck

Goose Island
Great Island
Gunning Rock

Horseshoe Point
Houston Flat

Indian Rock

Knowles Beach

Lake Canochet (not Caronchet)

League Rock
Lido Beach
Little League Rock
Little Neck - (title only)
Little Neck Pond
Locke Point
Long Bar Point
Long Cove
Narragansett Pier
Ocean Road
Old Point Judith Road
Olivia Beach

Point Judith (title only)
Point Judith Neck
Point Judith Pond

Quahaug Rock

Ram Head
Ram Island
Ram Point
Rye Point

T-11438. Geographic Names, continued:

Rhode Island (title only)
Rhode Island Sound (not Atlantic Ocean)

Salt Pond View
Scarborough Hills
Scarborough State Beach
Short Point
Silver Lake
Silver Spring Cove
South Pier Road
Sprague Park
Sprague Pond
Spring Cove
Stone Water Fence Cove (not water)
Tallow Hill Point
The Brothers
The Narrows

Upper Pond

Wakefield
Welcome Cove
Wheatfield Cove
Wolcott Cove
Wood Hill
Woodruff Avenue

Names approved 4-4-58

L. Heck

REVIEW REPORT T-11438
SHORELINE
18 April 1960

62. Comparison with Registered Topographic Surveys

| | | |
|----------|----------|---------|
| 91 | 1:10,000 | 1839 |
| 92 | 1:10,000 | 1839 |
| 1226 | 1:10,000 | 1871 |
| 2602 | 1:10,000 | 1902 |
| 7100 a&b | 1:10,000 | 1948 |
| 5095 | 1:10,000 | 1948-49 |

See Item #67.

63. Comparison with Maps of Other Agencies

| | | | |
|------|---------------------------|----------|------|
| USGS | Narragansett, Pier, R. I. | 1:31,680 | 1944 |
|------|---------------------------|----------|------|

64. Comparison with Contemporary Hydrographic Surveys

| | | |
|------|----------|------|
| 8315 | 1:12,500 | 1956 |
|------|----------|------|

This contemporary verified survey covered the area north of Gunning Rock or about half of the manuscript.

Stereoscopic examination and field inspection on nine-lens photographs confirm the foreshore in the areas of Narragansett Pier and south of Scarborough Beach as sand and boulders instead of ledge as shown on the hydrographic sheet. The ledge delineation on the hydro smooth sheet came from an advance copy of the topographic manuscript. The foreshore area was revised during final review.

Not any of the offshore rocks shown on the contemporary hydrographic sheet were field inspected.

Other than the above, there are no differences between the two surveys and they are in good agreement.

65. Comparison with Nautical Charts

| | | | |
|-----|----------|------------------------|----------|
| 268 | 1:15,000 | 1st Edition March 1953 | 12/21/59 |
|-----|----------|------------------------|----------|

The ledge line in the area WNW of Little League Rock was taken from a 1887 hydrographic survey. No trace of this formation could be found on low water photography.

66. Adequacy of Results and Future Surveys

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

67. Recommendations

It is recommended by the reviewer that fuller use be made of previous Bureau surveys by the field inspection party, particularly as applies to offshore detail.

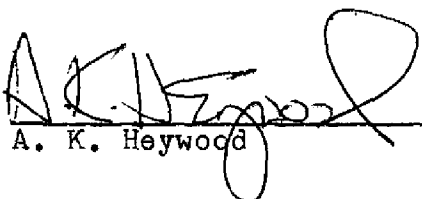
The proper delineation of shoreline and offshore information is the joint responsibility of the field inspector and the hydrographer.

Many details out from the MHWL on this project shown on previous 1936-1938 Bureau surveys are not specifically mentioned by either the inspection party or hydrography.*

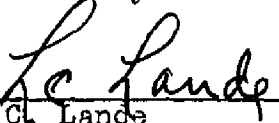
Copies of these previous surveys are furnished to the field on double weight ozalid paper suitable for annotation by the investigating photogrammetric party. Details such as rocks, piers, jetties etc. should be definitely marked with suitable commentary so that they may either be carried forward or deleted from the new manuscript. This then would clear up any doubts in the minds of the chart compiler and reviewer as to whether or not these features still exist.

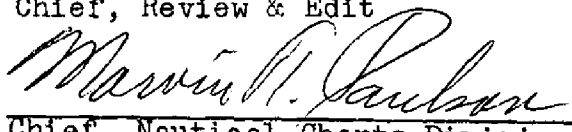
*Yet, the instructions to the reviewer for Item 63, Review Report, charge him with making a specific statement as to whether or not this (new) survey "supercedes all previous surveys....."

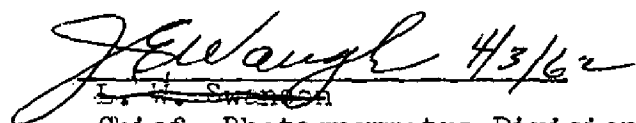
Submitted by:

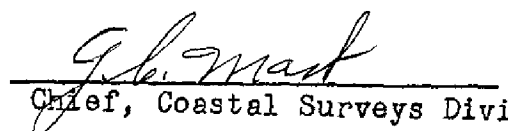

A. K. Heywood

Approved by:


L. C. Lande
Chief, Review & Edit


Chief, Nautical Charts Division

 4/3/62
J. E. Waul
Chief, Photogrammetry Division


Chief, Coastal Surveys Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11438

Record of Application to Charts

[illegible]

M-2768-1

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.