

# 11452

see RS-723

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Diag. Cht. No. 1212-2.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-1142 Office No. T-11452

### LOCALITY

State Rhode Island

General locality Block Island Sound

Locality Watch Hill Point

1954

### CHIEF OF PARTY

L.F. Woodcock, Chief of Party

W.F. Deane, Balto. District Office

### LIBRARY & ARCHIVES

DATE April 1962

USCOMM-DC 5087

# 11452

## DATA RECORD

- 2 -

T -11452

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 (Field)  
18 Aug. 1954  
15 Sept. 1955Copy filed in Division of  
Photogrammetry (IV)

Method of Compilation (III): 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): 30 Aug 1960

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

~~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): PHELPS, 1932

Lat.: 41° 18' 41.156" (1269.6 m) Long.: 71° 51' 13.113" (305.0 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.


SHORELINE

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

# DATA RECORD

- 4 -

Field Inspection by (II): I. Y. Fitzgerald

Date: 11 Aug 1954

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

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

22 April 1954 (date of photography), photogrammetric

Projection and Grids ruled by (IV): A. Riley

Date: 7 Dec. 1954

Projection and Grids checked by (IV): A. Riley

Date: 10 Dec. 1954

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

Date: 3 April 1956

Control checked by (III): C. O. DeMarr

Date: 3 April 1956

Radial Plot or Stereoscopic E. L. Rolle

Date: 24 May 1956

Control extension by (III):

Planimetry B. Kurs

Date: 8 Aug. 1957

Stereoscopic Instrument compilation (III):

~~XXXXXXXX~~

Date:

Manuscript delineated by (III): R. E. Lindauer  
(scribing)

Date: 22 May 1959

Photogrammetric Office Review by (III): J. W. Vonasek

Date: 12 Feb. 1958

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

Date:

Camera (kind or source) (III): C&GS type "W", 6" focal length

Number	Date	PHOTOGRAPHS (III) Time (EST)•	Scale	Stage of Tide
54-W-1262 and 1263	4/22/54	1500	1:20,000	0.3' above MLW

Tide (III)  
(from Predicted Tables)

Reference Station: **Newport**  
Subordinate Station: **Watch Hill Point**  
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	3.5	4.4
	2.5	3.1

Washington Office Review by (IV):

Date: APR 28, 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): 0.3

Shoreline (More than 200 meters to opposite shore) (III): 3

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 9 Recovered: 5 Identified: 2

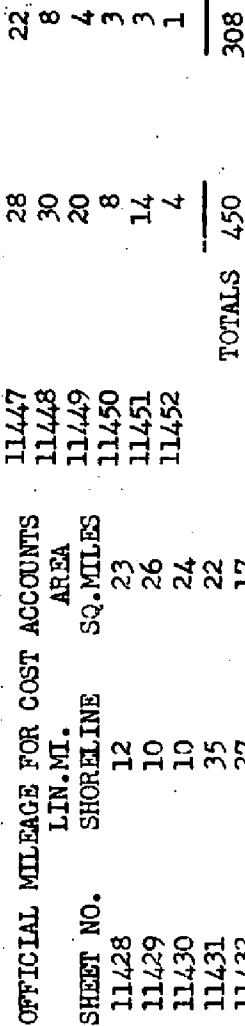
Number of BMs searched for (II): 3 Recovered: 3 Identified: 1

Number of Recoverable Photo Stations established (III): None

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

Remarks:

Block Island Sd., R.I. to [redacted] n. River, Conn.



----- Indicates shoreline revision  
 [Hatched Box] 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* ~~411~~ sheets ~~was~~ <sup>was</sup> scribed and transmitted to the Washington Office by *Baltimore Office*

Final Review was completed by April 1960.

Submitted by:

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A. K. Heywood



2. AREAL FIELD INSPECTION

This area is the well known summer resort of Watch Hill, Rhode Island. The area is almost exclusively summer resort with no other industry in evidence. There are a few permanent residents but the majority of the homes are summer ones.

Watch Hill Point is the only salient feature of the area. Part of Napatree Beach, forming a barrier on the south side of entrance to the Pawcatuck River, is located just west of Watch Hill Point.

Field inspection is complete. Field inspection notes were applied to 1:10,000 scale ratio prints of photograph 54-W-1263.

Photographic quality was excellent; no difficulty was encountered in interpretation.

Field inspection was done before a hurricane of 31 August 1954. There was some damage to buildings on Napatree Beach and near the small boat basin on the northwest side of Watch Hill Point. Judging from adjoining areas visited since 31 August, there was very little if any change in the location of the mean high and low water lines.

3. HORIZONTAL CONTROL

Coast and Geodetic Survey triangulation comprises all horizontal control in the area. All stations were searched for. Two stations were identified.

The following stations were reported lost: WATCH HILL CHURCH SPIRE 1904; LARKIN HOTEL, NORTH TOWER 1904; LARKIN HOTEL SOUTH TOWER 1904; and WATCH HILL SOUTH TOWER 1904; WATCH HILL REEF BEACON 1904.

4. VERTICAL CONTROL

Existing tidal bench marks were recovered and one was identified.

5. CONTOURS AND DRAINAGE

Contours inapplicable.

There is no definite drainage pattern.

6. WOODLAND COVER

Classified in accordance with project instructions.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was inspected by walking the beach and was found to be as date of photography.

The approximate mean low water line has been indicated on single-lens photograph. The nine-lens low water photographs were taken at a higher stage of tide than were the single lens photographs.

The foreshore is of three types: sand, sand and rock, and rock. The various types have been indicated on the photograph.

There is one prominent bluff which was labeled on the photograph and its height given.

All shoreline structures are individually labeled on the photograph.

There are no submarine cables.

8. OFFSHORE FEATURES

The location and heights above water at time and date of field inspection of several rocks off Watch Hill Point were noted on the photograph.

9. LANDMARKS AND AIDS

One landmark was recommended for charting.

One aid to navigation is in operation on Watch Hill Point.

Both the landmark and the aid were listed on Form 567.

10. BOUNDARIES, MONUMENTS AND LINES

There are no boundaries which effect the map.

11. OTHER CONTROL

None was established.

12. OTHER INTERIOR FEATURES

Class 1 buildings were indicated by placing an "x" in red ink on the image of the building. Class 2 buildings were indicated by placing the numeral "2" in red ink on the image of the building. Objects which might be mistaken for buildings were deleted.

Roads were classified in accordance with instructions. There are no national or state highways in the area.

There are no bridges or overhead cables.

13. GEOGRAPHIC NAMES

No discrepancies in names were noted during field inspection.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Letter of Transmittal No. Ph-142-3, Form 567, Fixed Aids to Navigation, to be forwarded to Washington Office at a later date.

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

Letter of Transmittal No. Ph-142-35, Data, Map T-11452, forwarded to Washington Office

**OCT 27 1954**

Submitted  
27 October 1954

*I. A. Fitzgerald*  
I. A. Fitzgerald  
Photo. Engineer

Approved & Forwarded

**OCT 27 1954**

*Lorin F. Woodcock*

Lorin F. Woodcock  
Chief of Party

SCALE FACTOR

1 FT. = 3048006 METER COMPUTED BY J. B. McDonald	April 3, 1956 DATE	C. O. DeMarr CHECKED BY:	April 3, 1956 DATE	COMM-DC-57843
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COMPILATION REPORT  
Project Ph-142  
T-11452

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Photogrammetric Plot Report is part of the descriptive report for Survey No. T-11440.

31. DELINEATION

The Kelsh plotter was used for delineation on vinylite projection. Field inspection was good.

32. CONTROL

Horizontal control was adequate. Vertical control is inapplicable.

33. SUPPLEMENTAL DATA

Final Names Standard dated 12/15/54.

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.

36. OFFSHORE DETAILS

Gangway Rock and Watch Hill Reef could not be identified on the photographs and have not been delineated.

37. LANDMARKS AND AIDS

Forms 567 have been submitted for one aid to navigation and one landmark.

38. CONTROL FOR FUTURE SURVEYS

A set of 1:10,000 scale ratio prints showing points for photo-hydro control has been prepared.

39. JUNCTIONS

Junctions have been made as follows:

To the north with T-11447

To the west with T-11451

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. through 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

USGS 7½ minute quadrangle Watch Hill, R. I. - Conn., scale 1:31680, 1953.

Bureau Survey No. T-9085 (1948), scale 1:10,000.

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 358, scale 1:20,000, published December 12, 1942, corrected to 5/11/56.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted  
12 February 1958

*Joseph W. Vonasek*  
Joseph W. Vonasek  
Carto. (Photo.)

Approved and forwarded

*William F. Deane*  
William F. Deane,  
CDR, C&CS  
Baltimore District Officer

PHOTOGRAMMETRIC OFFICE REVIEW

T-11452

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

4a. Classification label ☒

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 W. Vondra*  
Reviewer

*Henry D. Fisher*  
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:

49. NOTES TO THE HYDROGRAPHER

A set of 1:10,000 scale ratio prints has been prepared showing detail points for use in locating photo-hydro signals.

There are no recoverable topographic stations.

Gangway Rock and Watch Hill Reef could not be identified on the photographs and have not been delineated.

No inspection was furnished for the charted submarine cable end at Watch Hill Point.



TO BE CHARTED  
10/04/1977

## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Baltimore, Maryland 31 October 1958

The positions given have been checked after listing by HENRY P. BICHART

**William F. Fears** *Chief of Party.*

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. *Information under each column heading should be given.*

\* TABULATE SECONDS AND METERS

**TO BE CHARTED  
NOVEMBER**

**STRIKE OUT ONE**

# MONTE/UX/ING/ /ADS/ b/ LANDMARKS FOR CHARTS

Baltimore, Maryland

31 October 1958

I recommend that the following objects which have ~~been~~<sup>not been</sup> inspected from seaward to determine their value as landmarks be charted on ~~the~~<sup>these</sup> charts indicated.

The positions given have been checked after listing by

**Henry P. Eichert**

**WILLIAM F. DENNE**

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets; Information under each column heading should be given.

# TABULATE SECONDS AND METERS

48. GEOGRAPHIC NAMES LIST

Block Island Sound

East Beach

Little Narragansett Bay

Mickill Pond

Napatree Beach  
New York

Rhode Island

Sugar Reef Passage

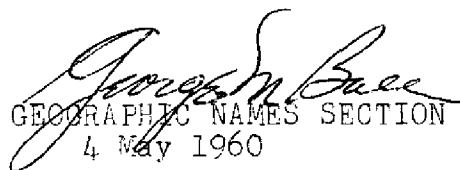
Watch Hill

Watch Hill Beach

Watch Hill Cove

Watch Hill Passage

Watch Hill Point

  
GEOGRAPHIC NAMES SECTION  
4 May 1960

Review Report T-11447 & T-11452  
Shoreline  
April 28, 1960

62. Comparison with Registered Topographic Surveys

88	1:10,000	1839-55
1734	"	1882-83
1736	"	1886
9085	"	1948

The new survey supercedes the above previous surveys in common area for new nautical chart construction. Survey T-9085 was carefully compared with latest photography. Where offshore rocks appeared on T-9085 and could be seen on at least two photographs, they were added during final review. The photographs were taken at .3' above MLW.

63. Comparison with Maps of Other Agencies

USGS Watch Hill, R. I.-Conn. 1:31,680 1953

64. Comparison with Contemporary Hydrographic Surveys

None

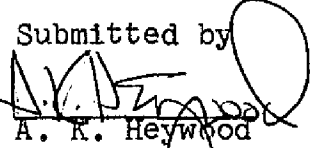
65. Comparison with Nautical Charts

1211 1:80,000 7 Ed. Jan. 17, 1941 Revised 8/24/59

66. Adequacy of Results and Future Surveys

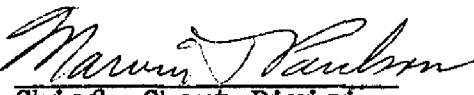
This survey complies with instructions and meets the National Standards of Map Accuracy.

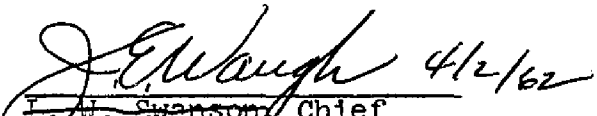
Submitted by

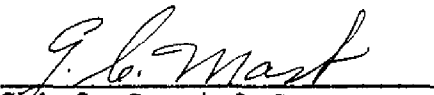
  
A. R. Heywood

Approved

  
L. C. Lande, Chief  
Review Section

  
Chief, Chart Division

 4/12/62  
L. W. Swanson, Chief  
Photogrammetry Division

  
Chief, Coastal Surveys  
Division

## NAUTICAL CHARTS BRANCH

SURVEY NO. T-11452

### Record of Application to Charts

[illegible]

M-2168-I

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.