
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey: Shoreline

Field No. Ph-142  Office No. T-11449

LOCALITY
State: Shoreline
General locality: Long Island Sound
Locality: Niantic Bay-Lands End to Seaside Point

1954

CHIEF OF PARTY
L.F. Woodcock, Chief of Party
J.E. Waugh, Tampa Photo. Office

LIBRARY & ARCHIVES
DATE: April 1962
DATA RECORD

T-11449

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

Field Office (II):  Groton, Conn.  Chief of Party:  L. P. Woodcock

Photogrammetric Office (III):  Tampa Florida  Officer-in-Charge:  J. E. Waugh

Instructions dated (II) (III):  8 June 1954  Copy filed in Division of
  Suppl. 1 dtd 15 July  Photogrammetry (IV)
  Suppl. 2 dtd 6 Aug
  Suppl. 3 dtd 18 Aug

Method of Compilation (III):  Kelsh Plotter

Manuscript Scale (III):  1:10,000  Stereoscopic Plotting Instrument Scale (III):  1:4,000

Scale Factor (III):  Pantograph to 1:10,000

Date received in Washington Office (IV):  May 57  Date reported to Nautical Chart Branch (IV):

Applied to Chart No.  Date:  Date registered (IV):  10/2/57

Publication Scale (IV):  Publication date (IV):

Geographic Datum (III):  N.A.1927  Vertical Datum (III):  MHW

Reference Station (III):  Millstone 1934  except as follows:

Lat.:  40°18'18.7"N (577.4m)  Elevations shown as (M) refer to mean high water
Long.:  72°09'52.4"W (1219.1m)  Elevations shown as (L) refer to sounding datum

Plane Coordinates (IV):

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

Date: Sept-Oct 1954

Planetary contouring by (II): Inapplicable

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): October 1954
Air Photo Compilation

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III): Washington Office

Date:

Control checked by (III): M. M. Slavney

Date: June 1956

or Stereoscopic
Control extension by (III): Washington Office

Date:

Stereoscopic Instrument compilation (III):

Date: July 1956

R. E. Smith

Manuscript delineated by (III): R. E. Smith

Date: February 1957

Photogrammetric Office Review by (III): M. M. Slavney

Date: March 1957

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

Date:
**PHOTOGRAPHS (III)**

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**Tide (III)**

**Predicted Tides**

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Reference Station: New London
Subordinate Station: Millstone Point

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 4
Shoreline (More than 200 meters to opposite shore) (III): 20 miles

Control Leveling - Miles (II): Inapplicable

Number of Triangulation Stations searched for (II): 36
Recovered: 22
Identified: 18

Number of BMS searched for (II): 0
Number of Recoverable Photo Stations established (III): 0
Number of Temporary Photo Hydro Stations established (III): 0

Remarks:
SUMMARY
PROJECT PH 142
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".
Five contemporary hydrographic surveys dated 1956-57 have been completed in this area by visual hydrographic methods. All sheets were scribed and transmitted to the Washington Office by Tampa District Office. Final Review was completed by April 1960.

Submitted by:

A. K. Heywood
2. AREAL FIELD INSPECTION

This shoreline sheet is located along the southern Connecticut Coast, just west of New London and at the mouth of the Niantic River. Most of the area is water. The land area is a small section in the northeast and northwest corners respectively.

The land area is developed mainly with summer homes and cottages. The principal industry being the tourist trade during the summer months.

Field inspection is believed complete and was performed on the following photographs: 54-W-753 through 54-W-758 and nine-lens photographs 43836 through 43839.

Shoreline inspection of Bartlett Reef is found on south wing of photograph 43836 and should not be overlooked.

Photography was of recent date and of good quality. No difficulty was encountered in their interpretation in the field. The tones range from white in the sandy beach and rock ledge areas to grey in the marsh and grassy areas, and to black in the heavily wooded areas. The different tones have been designated, through field inspection notes, and it is believed the compiler will have no difficulty in interpreting the tones in the office.

No items were deliberately left for the field editor.

3. HORIZONTAL CONTROL

All Coast and Geodetic Survey control was searched for. Due to the density of the stations, all control was not identified. Stations were identified at approximate one-half mile interval, with particular attention given to those in the overlap areas and farthest away from the flight line.

No control of any other agency was searched for.

The following stations were reported lost: BROCHETT CHIMNEY 1934; GRISWOLD ISLAND CHIMNEY 1934; LONG LEDGE HOUSE GABLE 1934; SCOWILLES SUMMER HOUSE 1934; SCOWILLES WINDMILL 1934; BLACK 1934; BLACK POINT ELEVATED TANK 1934; CRESCENT PARK HOUSE CHIMNEY 1934; GARDNER BARN CUPOLA 1934; RAM 1934; WOODS CHIMNEY 1934; and WOODS FLAGPOLE 1934.

Station RAM 1934 was found washed out and reference mark 2 was identified in lieu of the station.
Bartlett Reef Light was located by third-order intersection methods from existing triangulation. Identification of the light was classified doubtful due to lack of detail on the reef.

6. WOODLAND COVER

Woodland was field inspected and classified according to paragraph 5433A of the Topographic Manual.

Limits of swamp areas have been indicated on the photographs. Some of the black-mottled areas which appear to be swamp on the photographs are definitely not. The tone change appears to be a change in foliage rather than a change in characteristic of the land.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was inspected and where the line was indefinite it has been indicated by measurements from identifiable points.

The entire area could not be conveniently visited at low water. For this reason, the approximate mean low water line has been indicated on the nine-lens photographs.

The foreshore in most cases is fairly steep and rocky. The short stretches of sand beach also have a steep incline, except for the area around Jordan Cove. This area is sandy and gradual and there is considerable distance between the mean high and mean low water lines. It is believed notes on the nine-lens photographs adequately explain the above conditions.

Where bluffs or cliffs exist, they have been indicated on the photographs.

All docks, wharves, and piers have been indicated on the photographs.

There are no submarine cables in the area.

The only other shoreline features are the numerous groins, bulkheads etc. These have all been indicated on the photographs.

8. OFFSHORE FEATURES

The only offshore features are the numerous rocks. The mean high water line has been indicated on the larger rocks together with their height above the water at the time visited. Of the smaller rocks, the compiler should draft in the edge of the water as the mean high water line.
9. **LANDMARKS AND AIDS**

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

For fixed aids to navigation, see paragraph 3 and Form 567.

10. **BOUNDARIES, MONUMENTS AND LINES**

The only boundaries in the area are around Rocky Neck State Park and Seaside State Sanatorium. The limits of these reservations has been indicated on the photographs. The limits were determined from local information and fences, etc. on the ground.

11. **OTHER CONTROL**

None was established.

12. **OTHER INTERIOR FEATURES**

All roads were field inspected and classified in accordance with paragraph 17, heading (b) of the project instructions.

All buildings were inspected in accordance with the project instructions and Supplement 3.

There are no bridges or cables over navigable waters in the area.

There are no airports or landing fields in the area.

13. **GEOGRAPHIC NAMES**

See "Special Report, Geographic Names, Project Ph-142."

14. **SPECIAL REPORTS AND SUPPLEMENTAL DATA**

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

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-142-27, Data, Map T-11444, forwarded to Washington Office  

OCT 27 1954

Letter of Transmittal No. Ph-142-28, Data, Map T-11449, forwarded to Washington Office  

OCT 27 1954

Submitted  
26 October 1954

William M. Reynolds  
Carto, Survey Aid

Approved & Forwarded  

OCT 27 1954

Lorin F. Woodcock  
Chief of Party
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1 FT. = 0.3048006 METER
COMPUTED BY: J. B. McDonald DATE: 9 November 1955
CHECKED BY: M. M. Slavney DATE: July 1956
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DATE: 9 November 1955
CHECKED BY: M. M. Slavney
DATE: July 1956
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1 FT. = 304800.0 METERS

COMPUTED BY: B. Mc Donald DATE: 9 November 1955
CHECKED BY: M. M. Slavney DATE: July 1956
PHOTOGRAMMETRIC PLOT REPORT.

21 through 30.

The identified control adequately fixed all the models, consequently no plot was required and Items 21 through 30 are inapplicable.

31. DELINEATION.

The Kelsh Plotter was used. Field inspection was satisfactory.

32. CONTROL.

All identified control was held.

33. SUPPLEMENTAL DATA.

None used.

34. CONTOURS AND DRAINAGE.

Contours are inapplicable.

Drainage has been delineated according to field inspection notes and photographic interpretation.

35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline inspection was adequate for delineation of shoreline features. The approximate low-water line and shallow areas were taken from nine-lens low-water photography.

36. OFFSHORE DETAILS.

No statement.
37. **LANDMARKS AND AIDS.**

Form 567 for Aids to Navigation was submitted to the Washington Office by the field party 20 October 1954. Form 567 for Landmarks was submitted to the Washington Office by the field party 20 October 1954.

38. **CONTROL FOR FUTURE SURVEYS.**

None.

39. **JUNCTIONS.**

Junctions are in agreement with T-11444 to the north, T-11450 to the east and T-11448 to the west. There is no contemporary survey to the south (Long Island Sound).

46. **COMPARISON WITH EXISTING MAPS.**

Comparison was made with U. S. Geological Survey Quadrangle Niantic, Conn., scale 1:31680, edition of 1938. Only minor differences were noted.

47. **COMPARISON WITH NAUTICAL CHARTS.**

Comparison was made with C&GS Nautical Chart No. 214, scale 1:20,000, 4th edition, corrected to July 19, 1954. Only minor differences were noted.

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.**

None.
ITEMS TO BE CARRIED FORWARD.

None.

REXXORD E. SMITH, JR.
Cato Photo Aid

APPROVED AND FORWARDED:

William A. Rasine

for J. E. Waugh
Chief of Party
49. NOTES FOR THE HYDROGRAPHER.

Pass points were dropped along the shore to facilitate the location of photo hydro stations. The pass points and the identified horizontal control points have been transferred to all the office ratio prints.
GEOGRAPHIC NAME LIST

Attawan Beach
Bay Point
Black Point
Black Point Beach Club
Bride Brook
Connecticut
Crescent Beach
Fourmile River
Fox Island

*Giants Neck
Criswold Island
Huntley Island
Indian Pond
Lands End
Long Ledge
Long Island Sound
Long Rock

Magonk Point
Millstone
Millstone Point

New York, New Haven & Hartford R.R.
Niantic Bay
Nort'h Brother

*Pataguanset River
Pleasure Beach
Fond Point

Rocky Neck
Seaside
Seaside Point
South Brother

Twotrees Island
Two tree Island Channel

*Watts Island
White Point
White Rock

* B.G.N. Decision
GEOGRAPHIC NAME LIST

Attawan Beach
Bay Point
Black Point
Black Point Beach Club
Bride Brook
Connecticut
Crescent Beach
Fourmile River
Fox Island

*Giants Neck
Griswold Island
Huntley Island
Indian Pond
Lands End
Long Ledge
Long Island Sound
Long Rock

Magonk Point
Millstone
Millstone Point

New York, New Haven & Hartford R.R.
Niantic Bay
North Brother

*Pataguanset River
Pleasure Beach
Pond Point

Rocky Neck
Seaside
Seaside Point
South Brother

Twotree Island
Twotree Island Channel

*Watts Island
White Point
White Rock

* B.G.N. Decision

GEOGRAPHIC NAMES SECTION
14 SEPTEMBER 1960
PHOTOGRAMMETRIC OFFICE REVIEW
T. 11449

1. Projection and grid MMS
2. Title MMS
3. Manuscript numbers MMS
4. Manuscript size MMS

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

ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline MMS
13. Low-water line MMS
14. Rocks, shoals, etc. MMS
15. Bridges MMS
16. Aids to navigation MMS
17. Landmarks MMS
18. Other alongshore physical features MMS
19. Other alongshore cultural features XX

PHYSICAL FEATURES
20. Water features MMS
21. Natural ground cover MMS
22. Plane table contours XX
23. Stereoscopic instrument contours XX
24. Contours in general XX
25. Spot elevations XX
26. Other physical features XX

CULTURAL FEATURES
27. Roads MMS
28. Buildings MMS
29. Railroads MMS
30. Other cultural features MMS

BOUNDARIES
31. Boundary lines MMS
32. Public land lines XX

MISCELLANEOUS
33. Geographic names MMS
34. Junctions MMS
35. Legibility of the manuscript MMS
36. Discrepancy overlay XX
37. Descriptive report MMS
38. Field inspection photographs MMS
39. Forms MMS

40. Reviewer:
Milton M. Slavney

Supervisor, Review Section or Unit
William A. Rasure

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:
62. **Comparison With Registered Topographic Surveys**

<table>
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<th>Scale</th>
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<tr>
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<td>1838</td>
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<td>1651</td>
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This new survey supersedes these previous surveys in common areas for chart construction.

63. **Comparison With Maps of Other Agencies**


64. **Comparison With Contemporary Hydrographic Surveys**

None

65. **Comparison With Nautical Charts**


The following are noteworthy of differences that exist between this chart and the new survey.

1. **Lands End** Lat. 41°17'45" Long. 71°14'45"
   Difference in shoreline configuration.

2. **Rocks at Long Rock** Lat. 41°17'30" Long. 72°13'45"
   The two most westerly rocks awash could not be found on photos at 1.1' above MLW.
   The four most easterly rocks awash could not be seen on nine lens photos at 0.0' above MLW.

   There are rocks in this vicinity on Photo 43838 but they appear to be sunken and are not in the same position as on the chart.

3. **Black Boys** Lat. 41°17'10" Long. 72°13'35"
   Two rocks awash MLW shown on chart are not evident on nine lens photo 43839 at 0.0 MLW. There is some slight indication on this photo that there is a feature in this vicinity but not rocks awash at MLW. A note on hydro. survey 1603a says in pencil, "These rocks bare ½' MLW according to sounding records."
4. Lone rock awash end of Long Ledge
   Lat. 41°17'15" Long. 72°13'20"
   This rock is not visible on either nine lens
   at 0.0 MLW or single lens at 1.1 above MLW.

5. Black Rock Lat. 41°18'05" Long. 72°10'45"
   This rock has appeared on charts since at
   least 1883. Photo 43837 taken at MLW shows no
   trace of a rock in this vicinity yet the chart
   shows it to be above the plane of MHW.

   It is suggested that during chart construction
   new photography scheduled for this year (1960) but
   taken after this review be searched for an indica-
   tion of its appearance.

6. Little Rock Lat. 41°18'10" Long. 72°10'30"
   These two rocks awash are not visible on nine
   lens 0.0 MLW photos. There are two dark patches
   evident on 43837 in this vicinity but do not show
   bare at MLW.

7. High Rock Lat. 41°18'25" Long. 72°09'28"
   Two rocks awash south of High Rock merit the
   same comments as those above.

8. Flat Rock Lat 41°18'15" Long. 72°09'00"
   This rock is not in evidence on either nine
   lens 43836 or 43837 taken at 0.0 MLW.

9. Rocks of Bartlett Reef Lat. 41°17'30" Long. 72°08'30"
   Same comments as above.

10. Rock awash east of pier Lat 41°18'00" Long. 72°07'15"
    Same as #8.
66. Adequacy of Results and Future Surveys

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

Submitted by

A. K. Heywood

APPROVED:

L. C. Landy
Chief, Review and Drafting Sec.
Photogrammetry Division

Marvin T. Beckman
Chief, Nautical Chart Branch
Charts Division

J. E. Waugh
Chief, Photogrammetry Division

J. E. Waugh 4/3/62

F. E. Mast
Chief, Coastal Surveys Division
# NAUTICAL CHARTS BRANCH

**SURVEY NO. T-11449**

Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
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<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<td><strong>Before</strong> After Verification and Review</td>
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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.