

11449

Diag. Cht. Nos. 1211-2 and 1212-2.

Form 504

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 Sea-
side Point

1954

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE April 1962

USCOMM-DC 5087

11449

DATA RECORD

T-11449

Project No. (II): Ph-142

Quadrangle Name (IV):

Field Office (II): Groton, Conn.

Chief of Party: L. F. Woodcock

Photogrammetric Office (III): Tampa Florida

Officer-in-Charge: J. E. Waugh

Instructions dated (II) (III): 8 June 1954
 Supp.1 dtd 15 July
 Supp.2 dtd 6 Aug
 Supp.3 dtd 18 Aug

Copy filed in Division of
 Photogrammetry (IV)

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): 5-21-57 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 10/12/60

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A.1927

Vertical Datum (III): MHW

~~MEAN LOW WATER~~ 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): Millstone 1934

Lat.: 41° 18' 18.718 (577.4m)

Long.: 72° 09' 52.402 (1219.1m)

Adjusted
~~XXXXXXXX~~

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

Form T-Page 2

DATA RECORD

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

Date: Sept-Oct 1954

Planetable contouring by (II): Inapplicable

Date:

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

~~XXXXXXXX~~ or Stereoscopic

Date:

Control extension by (III): Washington Office

Planimetry R. E. Smith
Stereoscopic Instrument compilation (III):

Date: July 1956

~~XXXXXXXX~~

~~Date:~~

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

Date: February 1957

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

Date: March 1957

Elevations on Manuscript

Date:

checked by (II) (III): Inapplicable

Camera (kind or source) (III): Wild and C&GS 9-lens

		PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide		
54W-753	22 April 1954	15:22	1:20,000	1.1		
754	" " "	15:22	"	"		
755	" " "	15:23	"	"		
756	" " "	15:23	"	"		
757	" " "	15:23	"	"		
758	" " "	15:24	"	"		
9-lens 43838	30 April 1954	12:36	1:10,000	0:0		
43839	" " "	12:37	"	0:0		
43841	" " "	12:38	"	0:0		

Tide (III)
Predicted Tides

Reference Station: New London
Subordinate Station: Millstone Point
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
--	2.6	3.1
--	2.7	3.2

Washington Office Review by (IV):

Date: 13 Sept. 1960

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

AKH

Date: 10/12/60

Land Area (Sq. Statute Miles) (III): 4

Shoreline (More than 200 meters to opposite shore) (III): 20 miles

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

Control Leveling - Miles (II): Inapplicable

Number of Triangulation Stations searched for (II): 36

Recovered: 22

Identified: 18

Number of BMs searched for (II): 0

Recovered:

Identified:

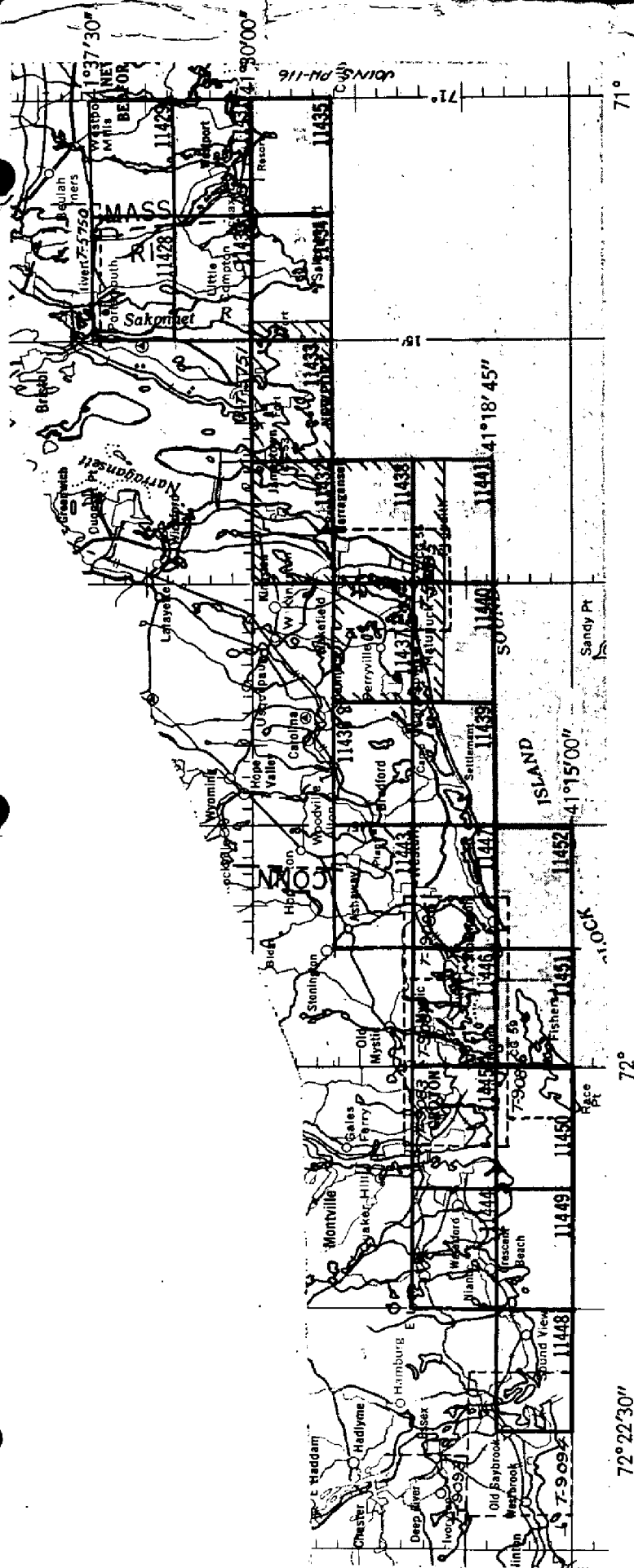
Number of Recoverable Photo Stations established (III): 0

Number of Temporary Photo Hydro Stations established (III): 0

Remarks:

SHORELINE MAPPING PROJECT PH-142

Block Island Sd., R.I. to Coggesville, Conn.



OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	SHORELINE LIN. MI.	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
11442	8	9
11443	35	25
11444	1	2
TOTALS	450	308

----- Indicates shoreline revision

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".

- 2 -

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

This
~~All~~ sheets ~~were~~ *was* 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; SCOVILLES SUMMER HOUSE 1934; SCOVILLES 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-142-24, Form 28B(dupl), Geographic Positions, forwarded to Washington Office 26 October 1954.

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
William M. Reynolds
Carto, Survey Aid

Approved & Forwarded

OCT 27 1954

Lorin F. Woodcock

Lorin F. Woodcock
Chief of Party

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T. 11449

PROJECT NO. Ph-1142

SCALE OF MAP 1:10,000

SCALE FACTOR 1 of 13

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR λ -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		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
						FORWARD	(BACK)	
BARTLETT REEF LIGHT 1954	GL 0706	NA	14 16 27.933			861.7	(989.3)	
	Photostat Fld. Comp.	1927	72 08 15.742			366.4	(1030.1)	
BAY, 1934	P35	"	14 18 35.462			1094.0	(757.0)	
	276/8		72 10 26.932			626.5	(769.2)	
SS BAY 1934		"	14 18			1109.2	(711.8)	
			72 10			626.9	(768.8)	
BOND 1934	P58	"	14 17 17.294			533.5	(1317.5)	
	276/2		72 12 13.175			306.6	(1089.6)	
BOND'S BARN CUPOLA 1934	P63	"	14 17 29.20			900.8	(950.2)	
	276/2		72 12 22.94			533.8	(862.4)	
BOND FLAGPOLE 1934	P63	"	14 17 22.599			697.2	(1153.8)	
	276/2		72 12 22.170			515.9	(880.3)	
FOX ISLAND CHIMNEY 1934	P64	"	14 18 23.089			712.3	(1138.7)	
	276/9		72 09 42.148			980.6	(415.2)	
GIANT 1934	P57	"	14 17 47.700			1471.5	(379.5)	
	276/2		72 13 53.765			1251.2	(1141.8)	
SS GIANT 1934		"	14 17			1477.9	(4373.5)	
			72 13			1264.5	(131.5)	
HUNTLEY 1934	P57	"	14 17 50.121			1546.2	(304.8)	
	276/2		72 13 30.314			705.4	(690.6)	
SS HUNTLEY 1934		"	14 17			1491.6	(359.4)	
			72 13			678.2	(717.8)	
JORDON CHURCH TOWER 1882	P95	"	14 18 30.513			941.3	(909.7)	
	276/9		72 07 42.545			989.7	(406.0)	

1 FT. = 3048006 METER
COMPUTED BY J. B. McDonald

DATE 9 November 1955

CHECKED BY M. M. Slavney

DATE July 1956

COM-DC-5784

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T 11449 PROJECT NO. Ph-142 SCALE OF MAP 1:10000 SCALE FACTOR 2 of 3

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR λ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
						FORWARD	(BACK)	FORWARD	(BACK)
MACINTOSH CHIMNEY 1934	P42 276/3	NA 1927	14 18 02.954			91.1	(1759.9)		
	P58 276/8	"	72 12 20.064			466.8	(929.1)		
MILLSTONE 1934		"	14 18 18.718			577.4	(1273.6)		
		"	72 09 52.402			1219.1	(176.7)		
SS MILLSTONE 1934		"	14 18			582.0	(1269.08)		
		"	72 09			1192.3	(203.5)		
MILLSTONE POINT WEST CHIMNEY 1934	P42 276/9	"	14 18 29.865			921.3	(929.7)		
		"	72 10 08.101			195.4	(1200.4)		
NANTIC RUSTY TANK 1934	P62 276/3	"	14 18 01.612			49.7	(1801.3)		
		"	72 12 38.596			897.9	(198.0)		
PLEASANT BEACH FLAGPOLE 1934	P63 276/9	"	14 18 38.46			1186.5	(664.5)		
		"	72 08 55.10			1261.9	(113.8)		
POND POINT 1934	P35 276/3	"	14 18 22.137			682.7	(1168.3)		
		"	72 12 12.136			282.3	(1113.5)		
SS POND POINT 1934		"	14 18			702.7	(1148.3)		
		"	72 12			294.3	(1101.5)		
PROCTER 1943	P57 276/2	"	14 17 10.851			334.7	(1516.3)		
		"	72 12 41.464			964.9	(431.3)		
PULZE CHIMNEY 1934	P461 276/2	"	14 17 58.693			1810.6	(140.4)		
		"	72 14 02.055			47.8	(1348.1)		
SS RAM 1934 RM 2	P31 276/9	"	14 17			1285.5	(565.5)		
		"	72 09			320.9	(1075.0)		
ROCKY NECK 1934	P57 276/2	"	14 17 50.842			1568.4	(282.6)		
		"	72 14 49.594			1154.1	(214.9)		

COMPILATION REPORT T-11449

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.

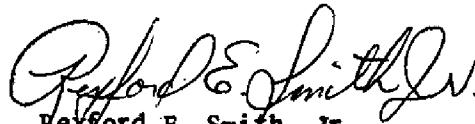
Comparison was made with C&GS Nautical Chart No. 214, scale 1:20,000, 4th edition, corrected to July 19, 1954. Only minor differences were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.


Rexford E. Smith, Jr.
Carto Photo Aid

APPROVED AND FORWARDED:

William A. Rasur
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
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~~4~~ Island
Twotree Island Channel

*Watts Island
White Point
White Rock

* B.G.N. Decision

George M. Baker
GEOGRAPHIC NAMES SECTION
14 SEPTEMBER 1960

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
Northh 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

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T. 11449

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

4a Classification label Unclassified

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 along-shore cultural features XX

PHYSICAL FEATURES

20. Water features MMS 21. Natural ground cover MMS 22. Planetable 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. Milton M. Slattery

Milton M. Slattery
Reviewer

William A. Rasure

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:

REVIEW REPORT T-11449
SHORELINE
September 15, 1960

62. Comparison With Registered Topographic Surveys

64	1:10,000	1838
78	1:20,000	1838
81	1:10,000	1838
84	1:10,000	1846
1651	1:10,000	1883-1887

This new survey supersedes these previous surveys in common areas for chart construction.

63. Comparison With Maps of Other Agencies

U.S.G.S. Niantic, Connecticut, 1:31,680 Edition of 1938

64. Comparison With Contemporary Hydrographic Surveys

None

65. Comparison With Nautical Charts

Chart 214 1:20:000 4th Edition April 2, 1959 Revised 5/25/59

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

1. Lands End Lat. $41^{\circ}17'45''$ Long. $71^{\circ}14'45''$
Difference in shoreline configuration.

2. Rocks at Long Rock Lat. $41^{\circ}17'30''$ Long. $72^{\circ}13'45''$
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. $41^{\circ}17'10''$ Long. $72^{\circ}13'35''$
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 $\frac{1}{2}'$ MLW according to sounding records."

4. Lone rock awash end of Long Ledge
Lat. $41^{\circ}17'15''$ Long. $72^{\circ}13'20''$
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. $41^{\circ}18'05''$ Long. $72^{\circ}10'45''$
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. $41^{\circ}18'10''$ Long. $72^{\circ}10'30''$
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. $41^{\circ}18'25''$ Long. $72^{\circ}09'28''$
Two rocks awash south of High Rock merit the
same comments as those above.

8. Flat Rock Lat $41^{\circ}18'15''$ Long. $72^{\circ}09'00''$
This rock is not in evidence on either nine
lens 43836 or 43837 taken at 0.0 MLW.

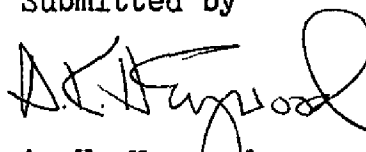
9. Rocks of Bartlett Reef Lat. $41^{\circ}17'30''$ Long. $72^{\circ}08'30''$
Same comments as above.

10. Rock awash east of pier Lat $41^{\circ}18'00''$ Long. $72^{\circ}07'15''$
Same as #8.


66. Adequacy of Results and Future Surveys

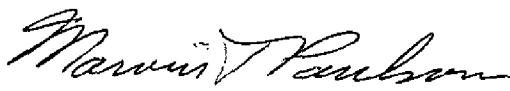
This map complies with instructions and meets National Standards of Map Accuracy.


Submitted by



A. K. Heywood

APPROVED:


Chief, Review and Drafting Sec.
Photogrammetry Division


Chief, Nautical ~~Chart Branch~~
Charts Division


Chief, Photogrammetry Division


Chief, Coastal Surveys Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11449

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.