

11439

Diag. Cht. No. 1211-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-142 Office No. T-11439

LOCALITY

State Rhode Island

General locality Block Island Sound

Locality Ninigret Pond

19 54

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE April 1962

USCOMM-DC 5087

11439

DATA RECORD

- 2 -

T-11439

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
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):
1:4,000 (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 Low Water or Mean Lower Low Water~~ 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): GOVERNORS ISLAND, 1873

Lat.: 41° 21' 18.855" (581.7 m) Long.: 71° 39' 12.449" (289.4 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): B. F. Lampton

Date: 2 Aug 1954
16 Aug 1954

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location):
August 1954 (Date of field inspection)

Projection and Grids ruled by (IV): Austin Riley

Date: 12/3/54

Projection and Grids checked by (IV): Austin Riley

Date: 12/10/54

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

Date: 8/23/55

Control checked by (III): J. Perrow

Date: 8/23/55

Radial Plot or Stereoscopic
Control extension by (III):

C. E. Cook

Date: ---

Planimetry E. L. Rolle

Date: 6/19/56

Stereoscopic Instrument compilation (III):

~~XXXXXXXXXX~~

Date: ----

Manuscript delineated by (III):

Scribing (w.o.)

Date:

Geographic Names, Labeling of Areas etc., Title Information completed during Final
Photogrammetric Office Review by (III): * J. D. McEvoy

Date: 7/25/57 REVIEWED: *AKH*

* WORK SHEET ONLY
AKH

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

Date:

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

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide
		Time (EST)			
54-W-777 thru 780	4/22/54	1530		1:20,000	No tidal waters
54-W-1252 thru 1257	"	1500		"	0.3' above MLW

Tide (III)
(from predicted tables)

Reference Station: Newport, R. I.
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 22, 1960

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date: DEC 9 1960

Land Area (Sq. Statute Miles) (III): 13

Shoreline (More than 200 meters to opposite shore) (III): 35 mi.

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

Control Leveling - Miles (II): none

Number of Triangulation Stations searched for (II): 17

Recovered:

9

Identified: 8

Number of BMs searched for (II): none

Recovered:

Identified:

Number of Recoverable Photo Stations established (III):

None

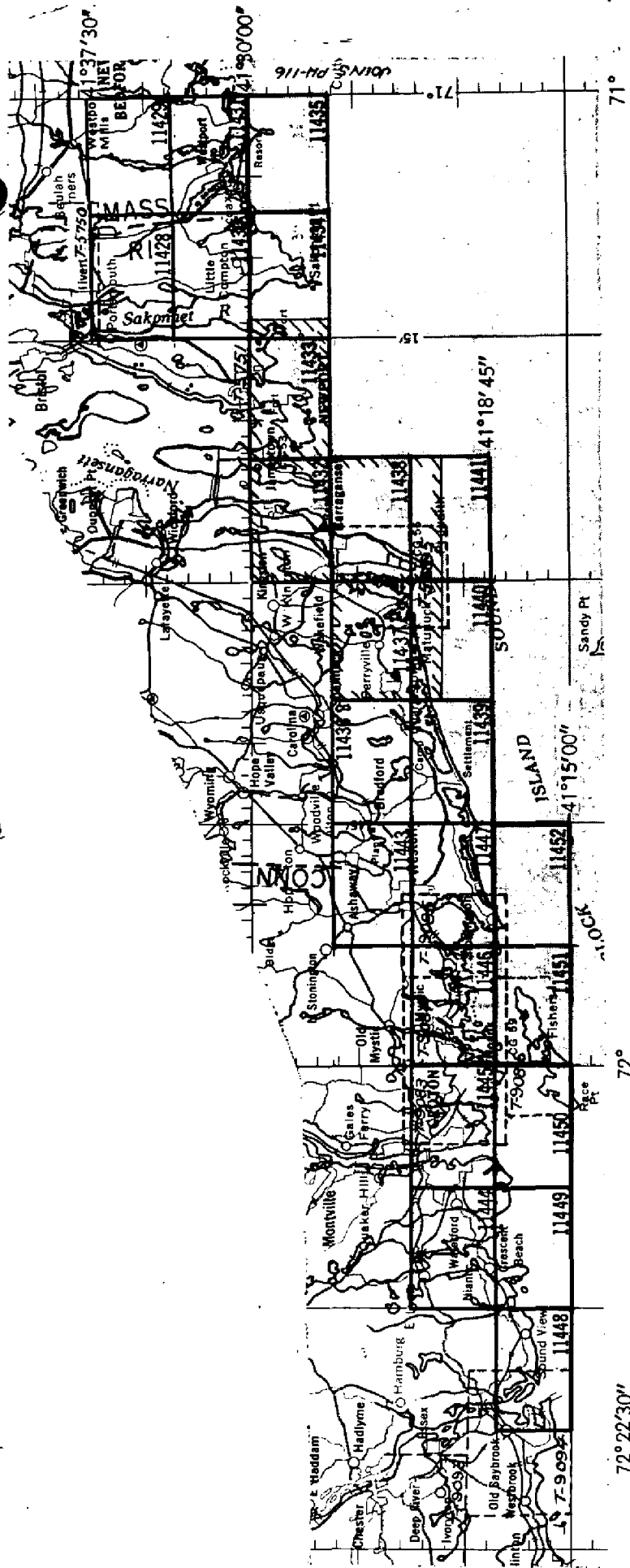
Number of Temporary Photo Hydro Stations established (III):

None

Remarks:

SHORELINE MAPPING PROJECT PH-142

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



OFFICIAL MILEAGE FOR COST ACCOUNTS			
SHEET NO.	LIN. MI.	AREA	SQ. MILES
11428	12	23	23
11429	10	26	26
11430	10	24	24
11431	35	22	22
11432	27	17	17
11433	26	7	7
11434	17	8	8
11435	4	1	1
11436	10	16	16
11437	22	25	25
11438	11	9	9
11439	25	13	13
11440	8	2	2
11441	3	1	1
11443	8	9	9
11444	35	25	25
11445	43	24	24
11446	40	15	15
TOTALS		450	308

----- Indicates shoreline revision
 [Symbol] Topographic revision

SUMMARY
PROJECT PE 142
TWENTY-FOUR

This project consists of $3\frac{3}{4}$ ' x $7\frac{1}{2}$ ', 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 multiex 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 6 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.

This
All sheets ~~were~~ *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

Low ridges extending into Block Island Sound form Quonochontaug and Ninigret Ponds. The openings between the ends of the ridges are almost completely closed by narrow barrier beaches partially backed by marsh. Along the northern side of the ponds are ridges interspersed with swamp. North of this, there is a band of heavily wooded dunes, 1/2 to 1 mile wide. U. S. Highway No. 1 follows the south edge of the dunes. There are hills interspersed with rather extensive swamp north of the dunes.

The population is chiefly rural, with small settlements at Shelter Harbor, Quonochontaug and Charlestown Beach. There are two state parks within the area; Woody Hill Reservation and Burlingame Reservation. The Charlestown U. S. Navy Auxiliary Air Field is a prominent feature.

Field inspection was completed prior to a hurricane on 31 August. Therefore, field inspection does not depict conditions as they now exist. Damage along the shoreline of this sheet is reportedly heavy. Practically all buildings along the low beaches were destroyed. According to reports, the high hurricane tides cut three inlets in Quonochontaug Beach. A depth of four feet at mean low water has been reported in these inlets. No field check of the area was made after the hurricane.

The field inspection is believed to be complete. The photographs are of excellent quality. Field notes have been applied to the following photographs: 54-W-777 through 54-W-782 and 54-W-1252 through 54-W-1257.

3. HORIZONTAL CONTROL

All horizontal control stations were searched for and identified if recovered, with the exception of two stations which were not identified because of their proximity to other identified control.

The following stations have been reported lost: SANDHILL 1873; HISCOX 1873; PEABODY 1909; AJAX 2 (USE) 1909; COAST GUARD CUPOLA 1939; QUONOC HONTAUG POND (USE) 1909; LARKIN (USE) 1909; and VILLAGE HILL 1843. Station HISCOX 1873 was identified although it had been disturbed, as measurements from the reference marks showed that it had not been disturbed sufficiently to affect it as photogrammetric control.

4. VERTICAL CONTROL

There are no tidal bench marks within the sheet. No other vertical control required.

5. CONTOURS AND DRAINAGE

Contours inapplicable.

There is typical tidal drainage in the form of meandering streams in the low marshes along the shore. In the interior, there are extensive swamps, with occasional small streams within the swamps. There are a few perennial streams that are not in swamp but most of these are short and are connections between swamps. There is no significant drainage within the belt of wooded dunes, except for some ponds and swamps in depressions. None of these swamps drain except along the edges. The belt of dunes forms a watershed, as no drainage crosses it, at least within the limits of this sheet.

Most of the streams are visible on the photographs but a few of the less distinct ones have been indicated. The swamp and marsh areas have been completely outlined on the field photographs.

6. WOODLAND COVER

Classification of woodland is believed to be adequately indicated on the field photographs.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line has been indicated on the photographs throughout the sheet. Along the sand beaches the mean high water line appears to have built outward since photography and the line shown is as of the date of field inspection, rather than the date of photography. At many places along the inner shore of the two large ponds, especially the northwest shore of Quonochontaug Pond, rocks are extremely numerous along the mean high water line and form a part of the mean high water line. This gives the line an unusual amount of fine detail, which is impractical to show in field indications of the line and will probably be difficult to delineate on the map manuscript.

Mean low water took place during working hours only once during field work on the sheet and the field inspector was able to obtain only two measurements to the mean low water line, one in a rocky area, and one along sand beach. Both measurements indicate that the mean low water line along the outer shore is approximately 50 feet out from the mean high water line.

Periodic tide within Quonochontaug Pond and Ninigret Pond is negligible, and none of the shoals within the ponds bare at mean low water with the exception of a few sand flats just within Charlestown Inlet that have been indicated on the photographs.

There are no bluffs or cliffs of landmark value.

All wharves, piers, and other shoreline structures have been indicated on the photographs. The shoreline along the cable area shown on Chart No. 1211 was searched for the shore end of the cable, but no indication could be found.

8. OFFSHORE FEATURES

Offshore rocks have been indicated by a leader and numeral giving the elevation above mean high water. In Quonochontaug Pond and Ninigret Pond the periodic tide is so small that it was considered most practical to measure the height of rocks from the high water mark on the rock. Hand level methods were used.

Along the outer shore, there are dense rocks in the section at Quonochontaug. This section was inspected at mean low water and the rocks were observed to vary from approximately 5 feet above the high water mark along the high water line to awash at mean low water along the outer edges. There were no prominent rocks along the outer edges.

9. LANDMARKS AND AIDS

One previously charted landmark has been verified and reported on Form 567. It has been identified for relocation.

10. BOUNDARIES, MONUMENTS AND LINES

There are no boundaries which affect this sheet.

11. OTHER CONTROL

Two recoverable topographic stations have been established at cultural objects.

12. OTHER INTERIOR FEATURES

The Officer In Charge of the Charlestown U. S. Navy Auxiliary Air Field was contacted and it was found that no information concerning the field is now classified, except for a few minor items which have been deleted from the photographs. The field is in use but has only a skeleton crew.

The appearance of the four lane portion of U. S. Highway No. 1 on the photographs requires explanation. The dividing strip is grass, four feet wide. The inner lanes on both sides are asphalt. The outer lanes are concrete. Outside of these are asphalt emergency lanes, which are part of the total width of the road but should not be considered as additional traffic lanes.

The clearance of telephone lines over two inlets has been given on the photographs. Of these two inlets, Charlestown Inlet is navigable to small boats only and the inlet to Quonochontaug Pond could not be reached from the inside with a small outboard skiff.

Roads have been classified in accordance with project instructions.

The interior limit of complete field inspection has been indicated by a violet line. In the area of complete field inspection, the following method of indicating buildings has been used:

Class 1 buildings have been indicated by a red "x" upon the image of the building.

Class 2 buildings have been indicated by a numeral 2 on the image of the building. Where it was necessary to block-in a building with ink, the classification has been shown by a numeral and leader. The numeral and leader has been used in other instances where it was more convenient. Buildings that are not to be mapped and features that are likely to be mistaken for buildings have been indicated by a green "x".

Beyond the limits of complete field inspection only public buildings have been noted. No landmark buildings were noted in the interior.

13. GEOGRAPHIC NAMES

No discrepancies were noted during field inspection.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

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-142-10, Data, Map T-11439, forwarded to Washington Office **OCT 27 1954**

Submitted
13 September 1954

B. Frank Lampton, Jr.
B. Frank Lampton, Jr.
Carto. Survey Aid

Approved & Forwarded

OCT 27 1954

Lorin F. Woodcock
Lorin F. Woodcock
Chief of Party

MAP T-11439 PROJECT NO. Ph-142 SCALE OF MAP 1:10000 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		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)	FORWARD	(BACK)
✓ Navy Auxiliary Air Field Control Tower, 1943	1/80 499/19	NA 1927	41-22-05.584	172.3	(1678.7)		Pricked direct			
			71-39-51.740	1202.5	(192.0)					
✓ Commons, 1873	1/119 499/6	"	41-21-14.662	452.3	(1398.7)					
			71-43-54.806	1274.0	(120.7)					
✓ Davis's O. House, East Gable Chimney, 1873	1/123 499/5	"	41-20-56.36	1738.7	(112.3)		Pricked direct			
			71-44-09.38	218.1	(1176.7)					
✓ Gavitt (USE), 1909	1/118 499/5	"	41-21-04.548	140.3	(1710.7)					
			71-44-04.086	95.0	(1299.8)					
✓ S.S. Gavitt (USE) 1909		"	41-21	136.8	(1714.2)					
			71-44	100.4	(1294.4)					
✓ SS Governors Island, 1873, RM2	1/75= RM2P 499/16	"	41-21	591.9	(1259.1)					
			71-39	295.9	(1098.8)					
✓ Governors Island, 1873	1/76 499/7-16	"	41-21-18.855	581.7	(1269.3)					
			71-39-12.449	289.4	(1105.3)					
✓ Hiscox, 1873	1/76 499/6	"	41-21-28.623	883.0	(968.0)					
			71-42-14.682	341.3	(1053.4)					
✓ SS Hiscox, 1873		"	41-21	904.3	(946.7)					
			71-42	342.4	(1052.3)					
✓ Lucas (USE) 1909	1/76 499/6-17	"	41-20-04.874	150.4	(1700.6)		Pricked direct			
			71-42-27.183	632.1	(763.1)					
✓ Peabody (USE) 1909	1/118 499/6	"	41-21-09.201	283.9	(1567.1)					
			71-42-07.101	165.1	(1229.7)					
✓ Ross Hill (RI), 1932	1/2 499/7- 11-17	"	41-22-07.763	239.5	(1611.5)					
			71-43-35.251	819.2	(575.3)					

1 FT. = 3048006 METER

M. 2388-12

COMPUTED BY J. B. McDonald DATE 17 August 1955 CHECKED BY J. Perrow DATE 23 August 1955

[illegible]

COMPILATION REPORT
Project Ph-142
T-11439

The Photogrammetric Plot Report is part of the descriptive report for survey T-11440.

31. DELINEATION

Compilation was by Kelsh plotter on vinylite projection. Field inspection was good.

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

Shoreline details are from field inspection which was complete. See item 7 of Field Report. No low water lines are shown.

36. OFFSHORE DETAILS

Data is complete.

37. LANDMARKS AND AIDS

One (1) landmark has been located.

38. CONTROL FOR FUTURE SURVEYS

Other than one (1) landmark, no topographic stations have been established.

39. JUNCTIONS

Junctions have been made as follows:

To the north with T-11438.

To the east with T-11440.

To the west with T-11447.

To the south is Block Island Sound.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. thru 45. Inapplicable.

46. COMPARISON WITH EXISTING MAPS

U.S.G.S., 7½ minute quadrangle, Quonochontaug, R. I., scale 1:31,680, 1953.

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 1211 scale 1:80,000 at Latitude 41° published at Washington, D. C., revised 4/15/57.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted,
25 July 1957

Approved and forwarded

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

Joseph D. McEvoy,
Carto. (Photo.)

Joseph D. McEvoy

PHOTOGRAMMETRIC OFFICE REVIEW

T. 11439

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. J. D. McEwen
Reviewer

Joseph Steinberg
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

Enclosed is a set of 1:10,000 office ratio prints. These have been especially prepared with selected shoreline points for use during hydrography.

48. GEOGRAPHIC NAMES LIST

Allen Cove

Bills Island
Block Island Sound

Charlestown Beach
Charlestown Beach (settlement)
Charlestown Inlet
Coon Cove

East Beach

Fort Neck Pond
Foster Cove

Hall Point
Haversham

Juniper Point

Ninigret Pond

Ocean Scenic Highway

Potato Point

Quahaug Point
Quonochontaug
Quonochontaug Beach
Quonochontaug Neck
Quonochontaug Pond

Sauks Island
Shelter Harbor
Stevens Island

U.S. Naval Auxiliary Air Station

Ward Island
Watchaug Pond
Wheat Point

George M. Burr
GEOGRAPHIC NAMES SECTION
5 MAY 1960

STRIKE OUT ONE

NONFLOUTING AIDS OR LANDMARKS FOR CHARTS

Washington, D. C. 25 April 1960

I recommend that the following objects which have *(have not)* been inspected from seaward to determine their value as landmarks be charted on *(deleted from)* the charts indicated.

The positions given have been checked after listing by

A. K. Roywood

DOUGLAS R. J.

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

REVIEW REPORT T-11439
SHORELINE MANUSCRIPT
27 April 1960

62. Comparison with Registered Topographic Surveys

91	1:10,000	1839
126	1:10,000	1840
129	1:20,000	1840
1312	1:10,000	1873

The above surveys are superceded by the new manuscript in common areas for nautical chart construction.

63. Comparison with Maps of Other Agencies

USGS 1:31,680 Quonochontaug, R. I. 1953

64. Comparison with Contemporary Hydrographic Surveys

None.

65. Comparison with Nautical Charts

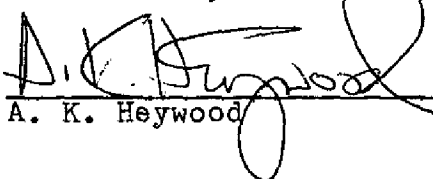
1211 1:80,000 7th Edition January 1941 Revised 8/24/59

66. Adequacy of Results and Future Surveys

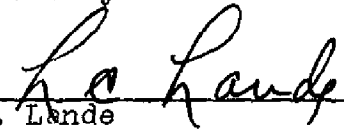
This manuscript complies with all instructions and meets the National Standard for Map Accuracy.

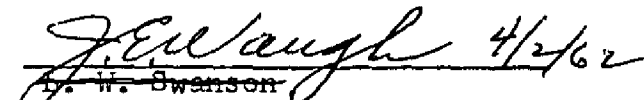
Field inspection was completed prior to the hurricane of 31 August. This hurricane is reported to have cut three inlets in Quonochontaug Beach.

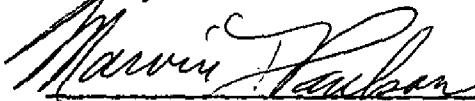
Submitted by:



A. K. Heywood

Approved by:


E. C. Lande
Chief, Review & Edit


J. E. Waugh 4/2/62
Chief, Photogrammetry Division


Marvin Hansen
Chief, Nautical Chart Division


J. C. Mast
Chief, Coastal Surveys Division

Journal of Management Education 30(6)

T-11439

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.