

11437

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-11437

LOCALITY

State Rhode Island

General locality Rhode Island Sound

Locality Point Judith Pond

1954

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE April 1962

USCOMM-DC 5087

11437

DATA RECORD

T-11437

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

Field Office (II): Groton, Conn.

Chief of Party: L. F. Woodcock

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge: William F. Deane

Instructions dated (II) (III):
8 June 1954, 18 August 1954,
15 September 1955

Copy filed in Division of
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): Oct 1960

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 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): BROAD HILL, 1839

Lat.: 41° 24' 39.413"

Long.: 71° 33' 42.941

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

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

DATA RECORD

Field inspection by (II): M. A. Stewart

Date: July 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, photogrammetric (Kelsh)

Projection and Grids ruled by (IV): Austin Riley

Date: 12/2/54

Projection and Grids checked by (IV): Austin Riley

Date: 12/10/54

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

Date: 8/11/55

Control checked by (III): J. Perrow

Date: 8/11/55

Radial Plot or Stereoscopic C. E. Cook

Date:

Control extension by (III):

Stereoscopic Instrument compilation (III):
 Planimetry E. L. Rolle,
 D. M. Brant

Date: 6/30/56

Contours

Date:

Manuscript delineated by (III): B. Kurs
 (scribed)

Date: 7/25/57

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

Date: 8/22/56

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

Date: ---

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

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide (feet)
		Time (E.S.T.)			
54-W-784 thru 789	4/22/54	1533		1:20,000	At MLW
54-W-792 " 798	"	1539		"	" "
54-W-1246 " 1248	"	1454		"	0.1 above MLW

Tide (III)
From predicted tables

Reference Station: Newport, R. I.
Subordinate Station: Point 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: SEPT 1 1960

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

AKA

Date:

Land Area (Sq. Statute Miles) (III): 25

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

Shoreline (Less than 200 meters to opposite shore) (III): 2

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 16 Recovered: 12 Identified: 12

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 3

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

Remarks:

**SUMMARY
PROJECT PE 142
TWENTY-FOUR**

This project consists of 3 1/4' x 7 1/2', 1:10,000 scale shoreline maps. Three manuscripts T-11444, T-11445 and T-11449 were compiled by the Tampa District Office. The remainder were compiled by the Baltimore District Office.

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

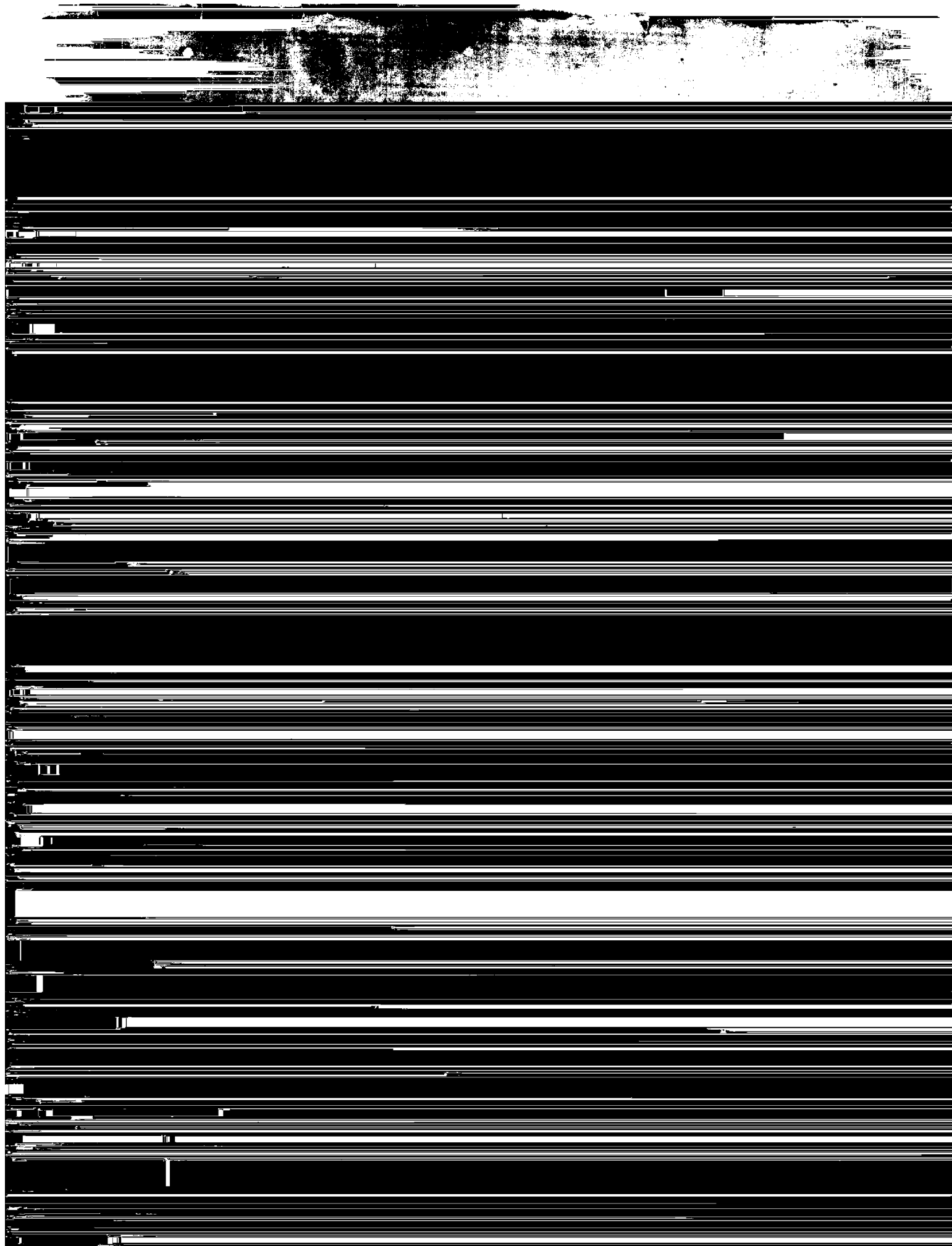
It extends from the New Bedford, Connecticut area west to Old Saybrook along Block Island Sound and includes parts of Massachusetts, Rhode Island, and Connecticut.

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 multiple 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. AREAL FIELD INSPECTION

This survey is composed of the western and southern sections of Point Judith Pond, a short section of the northern shore of Block Island Sound, all of Potter Pond and the adjoining land areas.

The area is chiefly residential, both permanent and summer, with several scattered small dairy and truck farms.

A small commercial fishing fleet is based in Point Judith Pond.

Field inspection was adequate and complete prior to hurricanes "Carol" and "Edna" on 31 August and 11 September respectively. Damage from these hurricanes was extensive in this area. This damage, insofar as this map is concerned, was to buildings near the shoreline and other alongshore structures. Field inspection of the area was not revised after the hurricanes.

Field inspection notes were applied to 1:10,000 scale ratio prints of single lens photographs 54-W-792, 54-W-794 through 54-W-798, 54-W-784 through 54-W-789, 54-W-1246 through 54-W-1250 and 1:10,000 scale nine-lens photographs 43734 and 43735.

3. HORIZONTAL CONTROL

All existing Coast and Geodetic Survey triangulation stations were searched for and identified if recovered.

In addition to the preceding, one monumented traverse station and two temporary traverse stations, all third-order, of the U. S. Geological Survey were recovered and identified.

No supplemental horizontal control was established.

The following stations were reported lost: HILL(TIP)1939; BARN, EAST CUPOLA 1912; BREACH WAY(USE) 1909; and HOUSE CHIMNEY 1913.

4. VERTICAL CONTROL

The following tidal bench marks were recovered: POINT JUDITH POND (POTTERS POND) TIDAL BENCH MARKS NOS.1(1948, 2(1948) and 3(1948); POINT JUDITH POND ENTRANCE(GALILEE)HARBOR OF REFUGE TIDAL BENCH MARKS NO.3(1948; No. 5(USE); No.6(USE) and No. 7(1953).

5. CONTOURS AND DRAINAGE

Contours inapplicable.

Drainage is predominantly perennial and has been developed and classified by standard symbols in blue ink on the photographs.

There is considerable swamp in the area. Swamp limits have been indicated on the photographs.

6. WOODLAND COVER

Adequately covered by field inspection notes and the photographs.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was inspected by walking the beach, from points accessible by truck and from a skiff in Point Judith and Potter Ponds. The mean high water line was found from measurements from identifiable detail to follow a berm on the single lens photographs.

The low water line in Point Judith Pond near the Breach Way was inspected during two low waters and the approximate mean low water line indicated on nine-lens photograph. The approximate mean low water line was indicated along the Block Island shore on nine-lens photograph 43735 near the junction of this survey with T-11440.

Other alongshore features are adequately covered by the photographs and field inspection notes.

8. OFFSHORE FEATURES

Offshore features are rocks and shoals. These are covered by field inspection notes on the photographs.

9. LANDMARKS AND AIDS

There are no landmarks or aids in the area.

10. BOUNDARIES, MONUMENTS AND LINES

There are no state boundaries in the area.

11. OTHER CONTROL

None was required.

12. OTHER INTERIOR FEATURES

Field inspection of buildings was completed prior to receipt of Instructions, Project Ph-142(Field), Supplement 3.

Class 1 buildings were indicated by placing an "x" in red ink upon the image of the building. Class 2 buildings were indicated by placing the numeral 2 in red ink upon the image of the building.

One overhead cable was measured and clearance noted on photograph 54-W-1247

The following bridge clearances were measured and noted on the above photograph:

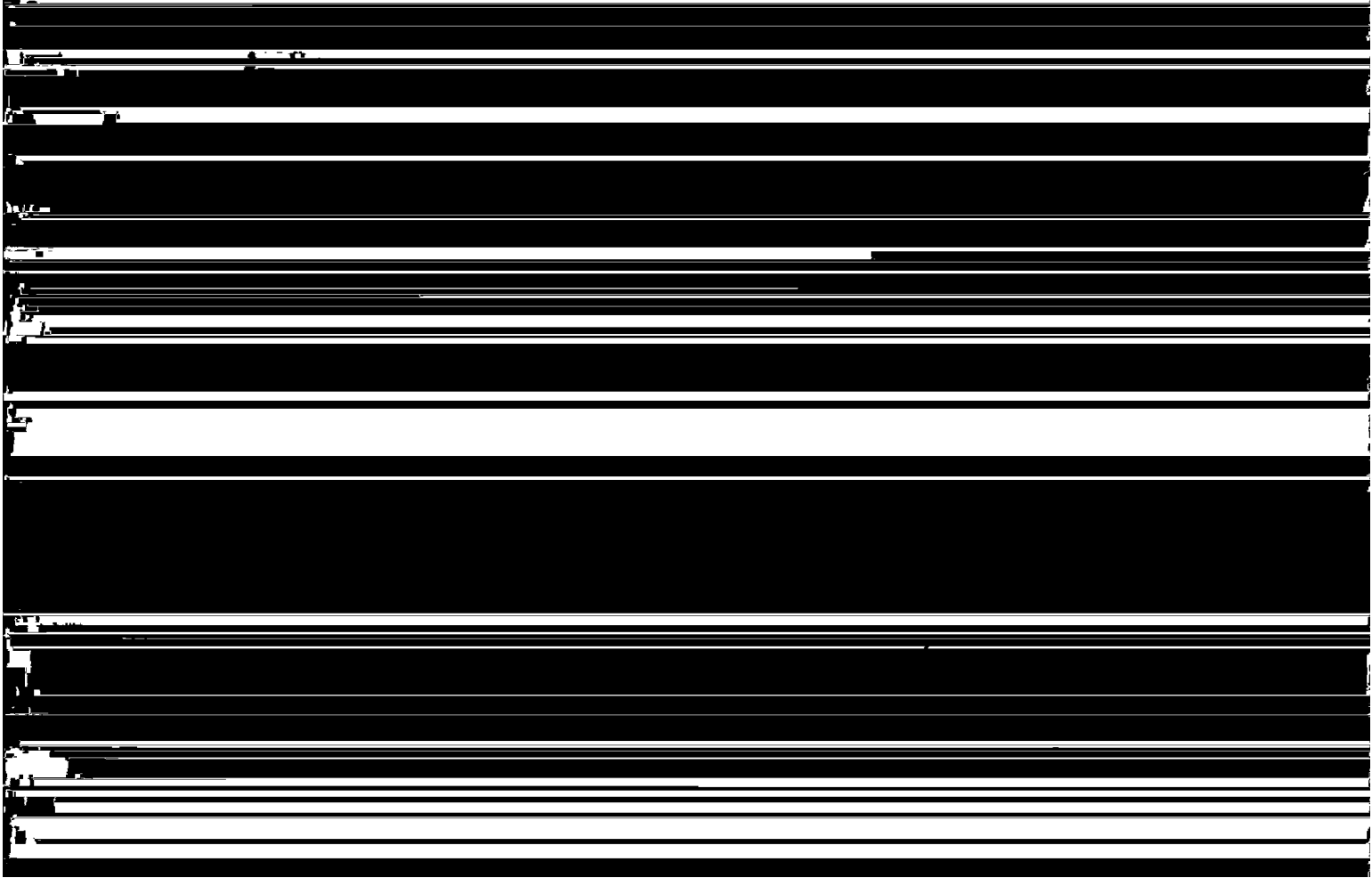
<u>Location</u>	<u>Purpose</u>	<u>Type</u>	<u>Hor.Cl.</u>	<u>Vert.Cl.</u>	<u>Time</u>	<u>Date</u>
Potter Pond	Highway	Fixed	28.4 ft.	6.2 ft.	0935 EDST	8/4/54

13. GEOGRAPHIC NAMES

No discrepancies were noted during field inspection.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Letter of Transmittal No. Ph-142-30. Data. Map T-11437. forwarded



MAP T. 11437 PROJECT NO. Ph-142 SCALE OF MAP 1:10000 SCALE FACTOR Sheet 1 of 2

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ν -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		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)		FORWARD	(BACK)	FORWARD	(BACK)
12 M 189 (U.S.G.S.), 1941	G.S. Photostat Page 6	NA 1927	41-25-44.49 71-36-44.12	1372.5	(478.5)					
Broad Hill, 1839	1/3 499/9-18	"	41-24-39.413 71-33-42.941	1024.5	(368.7)					
Cashman (USE), 1909	1/117 499/8	"	41-24-39.413 71-33-42.941	1215.9	(635.1)					
Browning's, W. T., House, Center Chimney, 1871	1/126 499/8	"	41-22-59.629 71-34-46.352	997.3	(396.2)					
Kenyon's, H. G., House, Center Chimney, 1871	1/126 499/7	"	41-23-11.89 71-34-36.40	1839.6	(11.4)					
Knew, 1943	1/75 499/17	"	41-23-46.352 71-37-06.79	1077.0	(317.1)					
Potter (USE), 1909	1/116 499/9-20	"	41-23-55.86 71-37-13.730	366.8	(1484.2)		Pricked direct			
Sugarloaf Hill, 1869	1/136 499/11	"	41-23-51.818 71-32-01.524	845.8	(548.2)					
Weeden (USE), 1909	1/75 499/8-18- 20	"	41-22-55.86 71-37-06.79	1723.3	(127.7)		Pricked direct			
White Church Tower, 1939	1/132 nd	"	41-23-53.266 71-37-13.730	157.8	(1236.3)					
Temp. Sta. No. 227 (U.S.G.S.)	1/136 499/11	"	41-23-51.818 71-32-01.524	1643.3	(207.7)					
Temp. Sta. No. 232 (U.S.G.S.)	1/75 499/8-18- 20	"	41-26-04.427 71-30-40.175	319.0	(1074.8)					
	1/132 nd	"	41-23-00.672 71-33-17.707	1598.6	(252.4)					
	1/132 nd	"	41-23-00.672 71-33-17.707	35.4	(1358.4)					
	1/132 nd	"	41-24-02.22 71-34-20.23	136.6	(1714.4)					
	1/132 nd	"	41-24-02.22 71-34-20.23	932.8	(460.3)					
	1/132 nd	"	41-26-21.64 71-33-22.68	20.7	(1830.3)					
	1/132 nd	"	41-26-21.64 71-33-22.68	411.4	(982.7)					
	1/132 nd	"	41-24-02.22 71-34-20.23	68.5	(1782.5)		Pricked direct			
	1/132 nd	"	41-24-02.22 71-34-20.23	469.9	(923.9)					
	1/132 nd	"	41-26-21.64 71-33-22.68	667.6	(1183.4)		Pricked direct			
	1/132 nd	"	41-26-21.64 71-33-22.68	526.5	(866.5)					
	1/132 nd	"	41-25-40.80 71-33-33.45	1258.7	(592.8)		Pricked direct			
	1/132 nd	"	41-25-40.80 71-33-33.45	776.7	(616.5)					

1 FT. = 3048006 METER

COMPUTED BY: J. B. McDonald DATE: 10 August 1955 CHECKED BY: J. Parrow DATE: 11 August 1955

SCALE FACTOR

SCALE OF MAP 1:10000

PROJECT NO. Ph-142

MAP T. 11437

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 DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
R.M. No. 3, Broad Hill, 1839	Comp from Broad Hill	NA 1927	41-24	1202.1	(648.9)				
			71-33	1022.1	(371.4)				
Kenyon, 1871		"	41-23	780.3	(1070.7)				
			71-37	63.1	(1331.0)				
12 M, 189			41-25	1419.2	(431.8)				
1941 (USGS)		"	71-36	1006.6	(386.4)				
Sugar Loaf Hill, 1869		"	41-26	132.9	(1718.1)				
			71-30	915.5	(477.6)				
Cashman (USE), 1909		"	41-22	1850.6	(00.4)				
			71-34	1192.2	(201.9)				
Weeden (USE) 1909		"	41-23	78.6	(1772.4)				
			71-33	399.6	(994.5)				
Potter (USE), 1909		"	41-23	1612.7	(238.3)				
			71-32	59.4	(1334.5)				
Kenyon, 1871	1/116 499/8	"	41-23-24.784	764.6	(1086.4)				
			71-37-01.570	36.5	(1357.5)				
House Cup. (Burn), 1939	1/132 nd	"	41-22-30.81	950.5	(900.5)				
			71-32-53.19	1236.0	(158.3)				
Sherman's, J. P., House, Center Chimney, 1871	1/126 499/10-20	"	41-23-24.63	759.8	(1091.2)				
			71-31-45.74	1062.7	(331.3)				
SS Pt. Judith Pond Ref., 1948		"	41-22	1022.0	(829.0)				
			71-30	1144.3	(249.9)				

1 FT. = 3048006 METER

COMPUTED BY: J. B. McDonald

DATE 10 August 1955

CHECKED BY: J. Perrow

DATE 11 August 1955

M-2388-12

COMPILATION REPORT
Project Ph-142
T-11437

Photogrammetric Plot Report: Bound with Descriptive Report for T-11436.

31. through 37.

Refer to Descriptive Report for T-11436.

38. CONTROL FOR FUTURE SURVEYS

The positions of three (3) recoverable topographic stations have been established by Kelsh Plotter and shown on the survey. No Forms 524 are submitted.

39. JUNCTIONS

Junctions have been made as follows:

To the east with T-11438.
To the south with T-11440.
To the west with T-11436.

40. through 45.

Refer to Descriptive Report for T-11436.

46. COMPARISON WITH EXISTING MAPS

U.S.G.S. 7½-minute quadrangle, Kingston, Rhode Island, scale 1:31,680 dated 1942, edition of 1944.

U.S.C. & G. S. Shoreline Survey T-5095, Point Judith and Vicinity, scale 1:10,000 dated May 12, 1949.

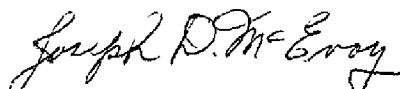
47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 269, scale 1:15,000 at Latitude 41° 23' published March 1953 (1st edition) (6/28/54).

Items to be applied to Nautical Charts immediately: None.

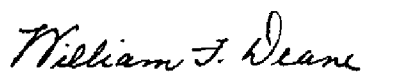
Items to be carried forward: None.

Respectfully submitted
8/22/58



Joseph D. McEvoy,
Carto. (Photo.)

Approved and forwarded



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

PHOTOGRAMMETRIC OFFICE REVIEW

T-11437

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. J. D. McEwen
Reviewer

Henry J. Reichert
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-11437
Ph-142

49. NOTES FOR THE HYDROGRAPHER

Three recoverable topographic stations have been established,
namely -

N. GABLE, 1954
N. W. GABLE, 1954
S. GABLE, 1954

Attached is a chart section on which have been circled details not
shown on our survey which should be verified.

Enclosed is a set of ratio photographs especially prepared for use
during hydrography.



UNITED STATES — EAST COAST
RHODE ISLAND

POINT JUDITH HARBOR

Mercator Projection
Scale 1:15,000 at Lat. 41°23'

SOUNDINGS IN FEET
AT MEAN LOW WATER

TIDES (referred to mean low water):
Mean high water 3.1 ft.
Mean sea level 1.5 ft.
Lowest tide to be expected Feb. 1953 -2.5 ft.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see C. & G. S. Chart No. 1):
Lights: F, fixed; Fl, flashing; Qk, quick; I, Qk, interrupted quick; S-L, short-long; Occ, occulting; Alt, alternating; Gp, group; W, white; R, red; G, green; M, nautical miles; m, minutes; sec, seconds; SEC, sector; OBSC, obscured; WHIS, whistle; DIA, diaphone; AERO, aeronautical light; Rot, rotating; D, destroyed, to be reestablished.
Buoys: C, can; N, nun; S, spar; B, black; R, red; W, white; Y, yellow; REF, reflector; T, B, temporary buoy.
Lights are white unless otherwise indicated.
Bn, daybeacon; R, red; W, white; C, G. Coast Guard Station.
R, TR, radio tower; R, Bn, radiobeacon; D, F.S., distance finding station.
Cl, clay; Co, coral; G, gravel; Grs, grass; M, mud; Rk, rock; S, sand; Sh, shells; bk, black; br, brown; bu, blue; gn, green; gy, gray; rd, red; wh, white; yl, yellow; hrd, hard; rky, rocky; sft, soft; stk, sticky.
23 Wreck, rock or obstruction swept clear to the depth indicated.
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.
P.D., position doubtful; E.D., existence doubtful; Obstr, obstruction.

HEIGHTS in feet above mean high water.

AUTHORITIES

Hydrography and topography by the Coast and Geodetic Survey with additions and revisions from the Corps of Engineers and Geological Survey.

STORM WARNINGS

The U. S. Weather Bureau displays storm warnings at Coast Guard Station, Point Judith.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

CAUTION

Temporary defects in aids to navigation are not indicated on this chart except where a buoy replaces a fixed aid. See Notice to Mariners.

41°
25'

24°

50'

40'

30'

20'

10'

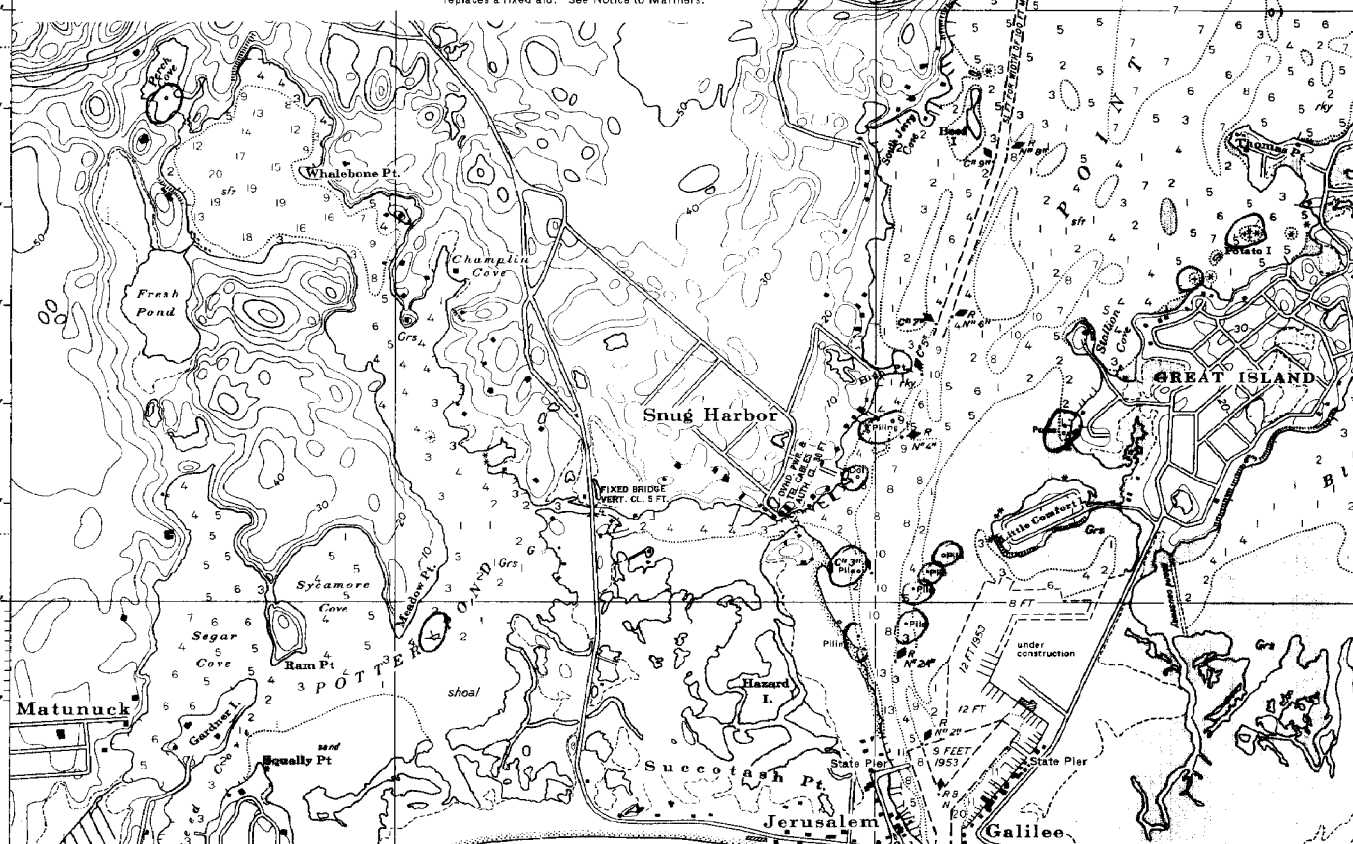
110,000

23°

50'

405,000 31'

3'



GEOGRAPHIC NAME LIST

Albro Island
Alewife Brook

Beach Island
Beef Island
Betty Hall Point
Block Island Sound
Bluff Hill Cove
Broad Hill
Brownong Beach Road
Bull Head Pond
Buttonwood Point

Card Ponds
Cedar Island
Cedar Swamp Pond
Congdon Cove
Crown Point
Cummock Island

Factory Pond
Fresh Pond

Galilee
Galilee Road
Gardner Island
Gooseberry Island
Gravelly Hill Road
Great Island
Green Hill
Green Hill Pond
Green Hill Road

Hazard Island
High Point
Hot House Pond

Jerusalem

Jonathan Island

Lily Pond
Little Comfort Island
Little Wash Pond
Long Pond

Matunuck
Matunuck Beach Road
Meadow Point
Mill Pond
Ministerial Road
Mink Brook
Moonstone Beach Road

GEOGRAPHIC NAME LIST

Peddlers Pond
Perch Cove
Perryville
Pine Tree Point
Pinto Island
Point Judith Pond
Post Road
Potato Island
Potter Pond

Ram Island
Ram Point
Reel Point
Round Pond
Rum Pond

Sassafras Point
Saugatuckett River
Seaweed Cove
Segar Cove
Shannock Road
Smelt Brook
Smelt Brook Cove
Snug Harbor
South Jerry Cove
Spectacle Ponds
Squallly Point
Stallion Cove
Strawberry Head
Succotash Point
Succotash Road
Sugarloaf Hill
Sycamore Cove

The Breachway
The Hills
The Narrows
Thomas Point
Toby Point
Trustom Pond
Tucker Pond
Tuckertown
Tuckertown Four Corners
Tuckertown Road
Turner Cove
Turner Point
Turner Road
Turtle Pond

Wakefield
Wash Pond
Whalebone Point
White Pond
Wordens Pond

George S. Ball
GEOGRAPHIC NAMES SECTION
8 SEPTEMBER 1960

REVIEW REPORT T-11437
SHORELINE
October 18, 1961

62. Comparison with Registered Topographic Surveys

91	1:10,000	1839
1226	"	1871
1271	"	1872
5095	"	1948-49

The above surveys are to be superceded by this manuscript
for new nautical chart construction.

63. Comparison with Maps of Other Agencies

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

-11437

on to Ch

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.