

11440

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-142 Office No. T-11440

DESCRIPTIVE REPORT - DATA RECORD

T- 11440

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

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): 30 Aug 1960

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 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): GREEN HILL, 1938

Lat.: 41° 22' 24.145"

Long.: 71° 35' 51.726"

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.

FORM 181a
(4-23-54)

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

A grid of graph paper with the text "SHORELINE" centered in the middle. The grid is composed of 10 columns and 10 rows of squares. The text "SHORELINE" is written in a bold, sans-serif font, centered horizontally and vertically within the grid.

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

DESCRIPTIVE REPORT - 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 for shoreline west of Matunuck Point. 21 April 1956 for Matunuck Point and eastward; Photogrammetric (Kelsh).**

Projection and Grids ruled by (IV): **A. Rose**

Date: **3 Dec. 1954**

Projection and Grids checked by (IV): **A. Rose**

Date: **10 Dec. 1954**

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

Date: **17 Aug. 1955**

Control checked by (III): **J. Perrow**

Date: **17 Aug. 1955**

Radial Plot or Stereoscopic
Control extension by (III):

E. L. Rolle

Date: **24 May 1956**

Planimetry **E. L. Rolle**
Stereoscopic Instrument compilation (III):

Date: **1 June 1956**

~~CONTROL~~

Date:

Manuscript delineated by (III): **C. A. Lipscomb**

Date: **6 Feb. 1957**

Photogrammetric Office Review by (III): **JOS. D. McEvoy**

Date: **15 June 1956**

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

--

Date: --

DESCRIPTIVE REPORT - DATA RECORD

- 5 -

Camera (kind or source) (III):

PHOTOGRAPHS (III) (EST)

Number	Date	Time	Scale	Stage of Tide
54-W-1000	22 April 1954	1200	1:20,000	1.8' above MLW
1001	"	"	"	1.8' above MLW
1246	"	1454	"	0.1' above MLW
1247	"	1454	"	0.1' above MLW
1248	"	1454	"	0.1' above MLW
1249	"	1454	"	0.1' above MLW
1250	"	1454	"	0.1' above MLW
1251	"	1454	"	0.1' above MLW
1252	"	1454	"	0.1' above MLW

Tide (III)

Reference Station: Newport, R. I.
Subordinate Station: Pt. Judith Harbor
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
-	3.5	4.4
-	3.1	3.9

Washington Office Review by (IV):

Date: APR 21, 1960

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date: Aug 28 1960

Proof Edit by (IV):

Date:

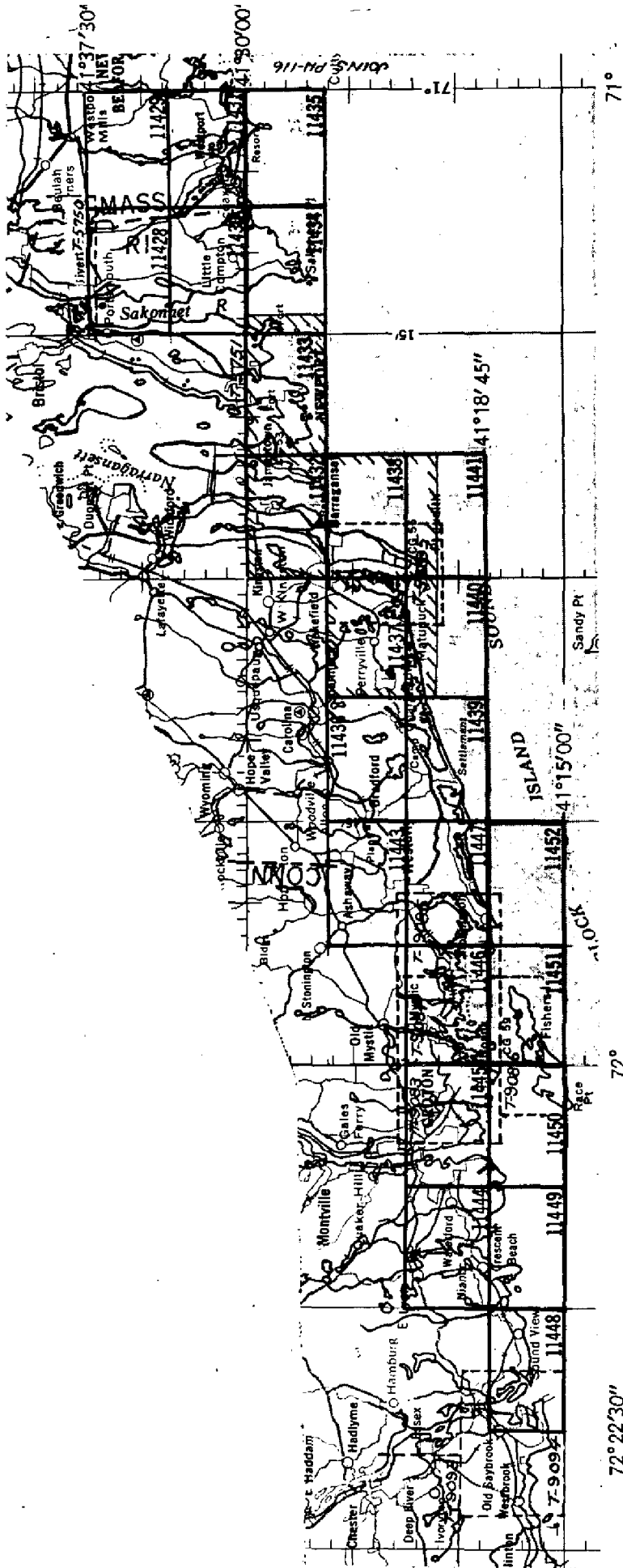
Land Area (Sq. Statute Miles) (III): 2
Shoreline (More than 200 meters to opposite shore) (III): 8
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 15
Number of BMs searched for (II):
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Recovered: 11 Identified: 8
Recovered:
None Identified:
None

Remarks:

SHORELINE MAPPING PROJECT PH-142

Block Island Sd., R.I. to Conn. River, 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
11443	8	9
11444	35	25
11445	43	24
11446	40	15

11447	28	22
11448	30	8
11449	20	4
11450	8	3
11451	14	3
11452	4	1
TOTALS	450	308

Indicates shoreline revision
Topographic revision

SUMMARY
PROJECT #E 142
TWENTY-FOUR

This project consists of 3 3/4' x 7 1/2', 1210,000 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 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



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. E. Heywood

2. AREAL FIELD INSPECTION

This area is part of the north shore of Block Island Sound and lies west of Point Judith including most of the Point Judith Harbor of Refuge.

The area is chiefly residential, both permanent and seasonal, although it is becoming less seasonal.

There are a few small dairy farms.

Photographic quality was good. No difficulty was encountered in interpretation of the photographs.

Field inspection notes were applied to 1:10,000 scale ratio prints of single lens photographs 54-W-1000 and 54-W-1001; 54-W-1246 through 54-W-1251 and 1:10,000 scale nine-lens photograph 43735.

Field work was completed prior to the hurricanes of 31 August and 11 September 1954. Damage to buildings along the shoreline and other shoreline structures was extensive. Field inspection was not revised after the hurricanes.

3. HORIZONTAL CONTROL

No supplemental horizontal control was established.

No control of other agencies was searched for.

The following stations were reported lost: CHURCH CUPOLA 1913; HOUSE CUPOLA (BURN) 1939; GREEN HILL POINT COAST GUARD FLAG TOWER 1939; and BOAT HOUSE SE CORNER 1912.

4. VERTICAL CONTROL

There is none.

5. CONTOURS AND DRAINAGE

Contours inapplicable.

Drainage was developed and classified by standard symbols in blue ink.

The limits of marsh and swamp were indicated by symbol.

6. WOODLAND COVER

Adequately covered by field inspection notes and the photographs.

7. SHORELINE AND ALONGSHORE FEATURES

See Field Inspection Report, T-11439() for mean high water line information.

The mean low water line was inspected during one low water and the *approximate mean low water line indicated on nine-lens photograph 43735.

* THIS IS IN ERROR THERE IS NO LNL INSPECTED ON THIS PHOTO. NAA

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

8. OFFSHORE FEATURES

* Offshore features are the breakwaters of Point Judith Harbor of Refuge and rocks near the shore. These are adequately covered by field inspection notes.

* THERE WERE NO OFFSHORE ROCKS INSPECTED ON THIS MANUSCRIPT. NAA

9. LANDMARKS AND AIDS

One new landmark was selected and recommended for charting. There are four fixed aids to navigation. All are adequately covered by the photographs and forms 567.

10. BOUNDARIES, MONUMENTS AND LINES

There are no state boundaries in the area.

* One small military reservation exists on Green Hill. The area limits were indicated along the fence enclosing it. The reservation encloses three coast artillery observation and fire control towers which are now abandoned. It has no individual name.

* BOUNDARIES OF MILITARY RESERVATIONS ARE NOT SHOWN ON SMOKEWAVE SURVEYS. NAA

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 and was not revised.

Class 1 buildings were indicated by placing a red "x" upon the image of the building. Class 2 buildings were indicated in the same manner, except the numeral 2 was used instead of the red "x".

All other interior features are adequately covered by field inspection notes.

13. GEOGRAPHIC NAMES

No discrepancies were noted during field inspection.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

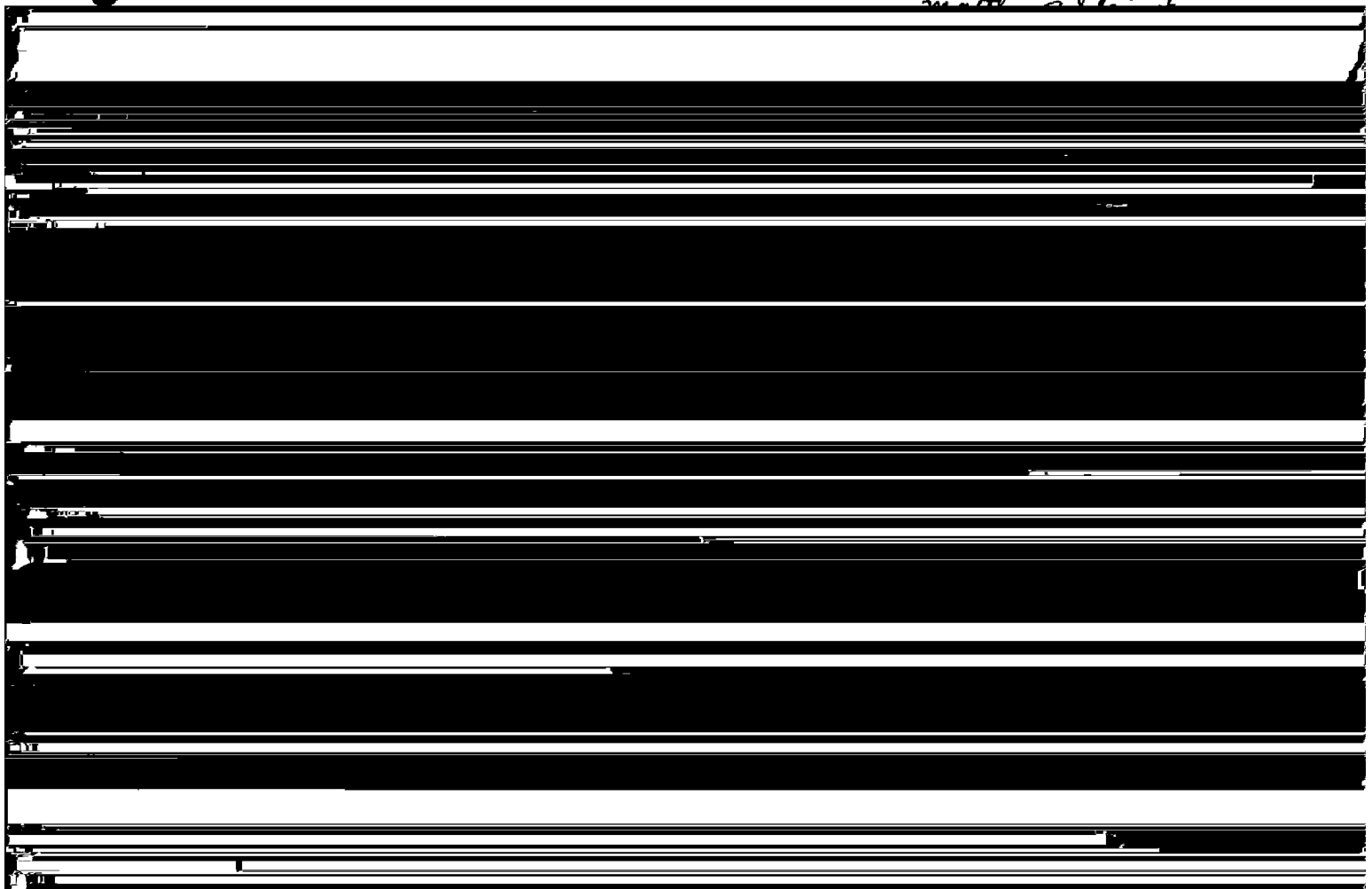
Letter of Transmittal No. Ph-142-3, Form 567, Aids to Navigation, to be forwarded to Washington Office at a later date.

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-142-18, Data, Map T-11437, forwarded to Washington Office **OCT 27 1954**

Letter of Transmittal No. Ph-142-19, Data, Map T-11440, forwarded to Washington Office **OCT 27 1954**

Submitted
20 October 1954



PHOTOGRAMMETRIC PLOT REPORT
Project Ph-142
T-11440

21. AREA COVERED

T-11436, T-11437, T100439, T-11440, T-11443, T-11445, T-11446, T-11447, T-11450, T-11451 and T-11452.

22. METHOD

Pass points for controlling the Kelsh models were established from bridging by multiplex in areas not bridged by stereoplanigraph. Work was done on 1:10,000 scale projections on vinylite. These in turn were used when setting up and plotting the Kelsh models.

23. ADEQUACY OF CONTROL

Horizontal control points were adequate for controlling the bridged strips. Sketch of control is attached. Except for the following, and those points discussed in letter to Chief, Division of Photogrammetry, dated 25 October 1956, all other points were held within 0.5 mm.

KING HOUSE, SOUTH GABLE, 1935 (T-11446) was probably misidentified as the geographic position plotted on the south gable of a house about one-quarter of a mile south of the identified point.

Sub Point ASHAWAY (Conn), 1937 (T-11443) could not be identified in the model. The image was too small.

Sub Point 2095 (CGS), 1939 (T-11445), identified by the field party, could not be used as they neglected to record the measurements thereto.

Ties with the Washington Office pass-points (Stereoplanigraph) on T-11443, were very good.

24. SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

Photography was good. Coverage and overlap were adequate. Quality of the diapositives was good.

Respectfully submitted



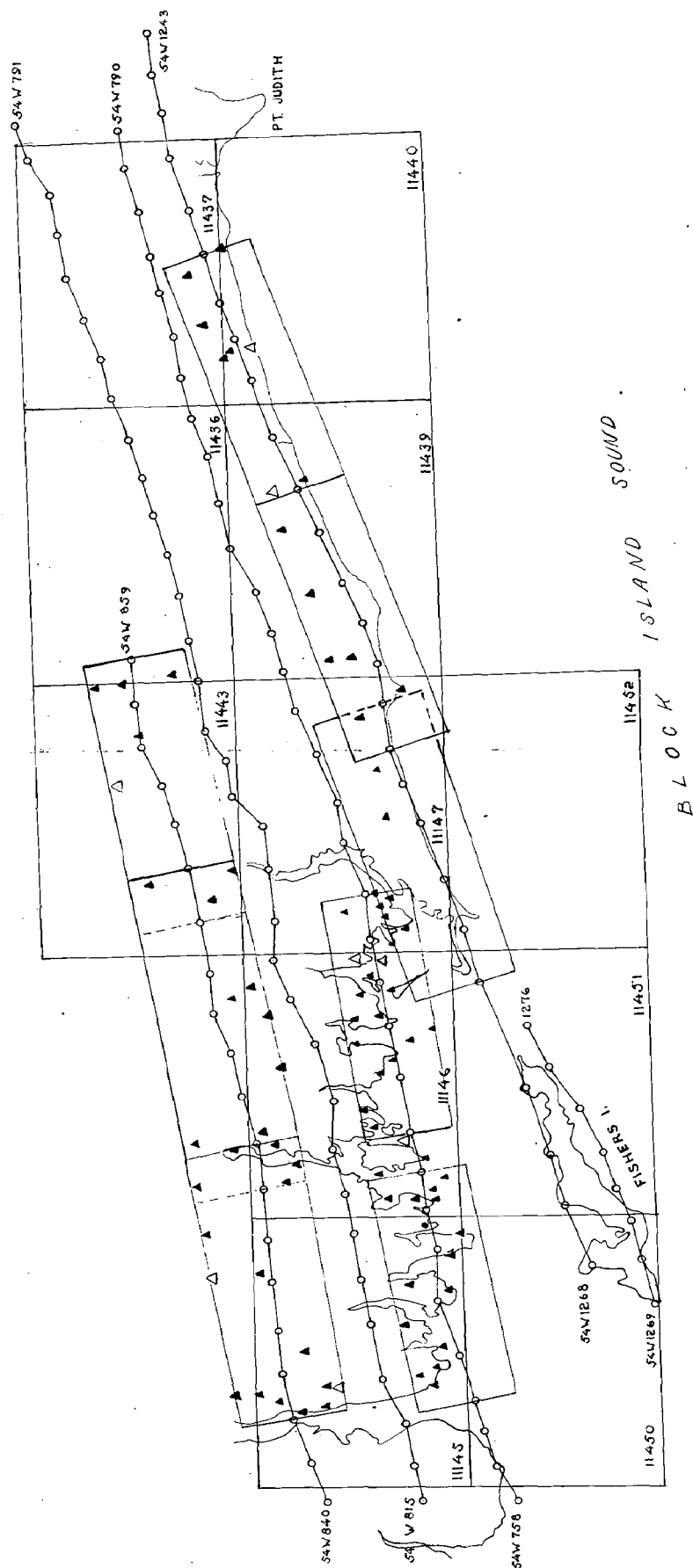
Henry P. Eichert
Super. Carto.

SKETCH OF CONTROL

PROJECT Ph 142
BLOCK 1, SOUND

MULTIPLEX BRIDGING

Legend
▲ Identified and held
△ Identified and not held



BALTIMORE DISTRICT OFFICE
518 East 32nd St., Baltimore 18, Maryland

25 October 1956

To: Chief, Division of Photogrammetry
Coast and Geodetic Survey,
Washington 25, D. C.

Subject: Supplementary Bridging, Project 27300 (6142)

The multiplex bridging needed to obtain additional pass points for our Kelsh models has now been completed. The results of the several strips run over the area appear satisfactory.

Horizontal control points were held in our bridges either on or within 0.5 mm. There were several points, nevertheless, which could not be held within this limit. Other control was adequate to prove that these several points were in error. These points not held were:

LATHROP, 1934 - This point was picked direct as the center of an offshore boulder (T-11445). The identified position plotted 0.6 mm southwest of its position.

DODGE, 1934 - Reference Mark No. 1 had been selected as the Sub. Pt. (T-11446). It was picked as the center of a boulder. The multiplex positions plotted 0.7 mm northeast of its position.

NO. 4 (USE), 1934 - Reference Mark No. 2 had been selected as the Sub. Pt. (T-11446). It was, also, picked as the center of a boulder. The multiplex position plotted about 2.0 mm southwest of its position.

TOWER NO. 6, 1943 - This point was picked direct and a Sub. Pt. also selected and identified (T-11440). Neither would hold. The identified position of the tower plotted about 1.5 mm northwest of its position and the Sub. Pt., 2.0 mm east.

CHARLESTOWN, U. S. NAVY AUX. AIR FIELD CONTROL TOWER, 1943 - The control tower as identified, would not hold (T-11439). Nevertheless, the geographic position held very well on what appeared to be a tower on another building, 6.0 mm southwest.

All field data was inspected and computations checked. A 0.6 mm mistake

1 of 2 Sheets

MAP T-11440

PROJECT NO. Ph-142

SCALE OF MAP 1:10000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR χ -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 FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
B ¹ S ¹ , 1943 11	1/81	1927	41-22-24.248 71-35-53.464	748.1 (1102.9) 1242.4 (151.9)			
B ¹ S ¹ , 1943 6	1/81	"	41-22-24.941 71-35-49.368	769.4 (1081.6) 1147.3 (247.0)		Not plotted - congested Not plotted - congested	
B ² S ² , 1943 3	1/81	"	41-22-24.370 71-35-51.615	751.8 (1099.2) 1199.5 (194.8)		Pricked direct	
Carpenter (USE), 1909	1/117 499/8-9 19-21	"	41-22-29.300 71-32-48.277	903.9 (947.1) 1121.9 (272.4)			
Church Cupola, 1913	1/122 499/4- 9-21	"	41-22-26.844 71-32-28.388	828.1 (1022.9) 659.7 (734.6)			
Green Hill, 1838 1928	1/39 499/17	"	41-22-24.145 71-35-51.726	744.9 (1106.1) 1202.1 (192.2)		Not plotted - congested	
House Cupola (burn), 1939	1/132 nd	"	41-22-30.81 71-32-53.49	930.5 (900.5) 1236.0 (158.3)		(Plotted on T-11437)	
Main Br. C. Lt. 2, 1948	1/150 499/20- 22	"	41-21-14.903 71-30-27.964	459.8 (1391.2) 650.1 (744.6)		Pricked direct	
Main Breakwater Center Light, 1912	1/122 499/22	"	41-21-14.942 71-30-27.866	461.0 (1390.0) 647.8 (746.9)		Not plotted	
South Beacon, 1912	1/123 499/20-22	"	41-21-16.365 71-30-37.813	504.9 (1346.1) 879.0 (515.7)			
Tower No. 6, 1943	1/80	"	41-21-55.474 71-35-45.602	1711.4 (139.6) 1059.8 (334.7)			
Point Judith Harbor of Refuge West Breakwater Light, 1948	1/150 499/22	"	41-21-55.710 71-30-54.886	1718.6 (132.4) 1275.7 (118.8)		Pricked direct	

1 FT. = 3048006 METER

COMPUTED BY: J. B. McDonald

DATE 15 August 1955

CHECKED BY: J. Perrow

DATE 17 August 1955

M-2388-12

[illegible]

COMPILATION REPORT
Project Ph-142
T-11440

31. DELINEATION

The Kelsh plotter was used for delineation on vinylite projections. The final manuscript was prepared in two halves by standard scribing methods. Field inspection was good.

Photographs or other information showing extent of hurricane damage have been received only for area including Matunuck Point and eastward. Changes have been made.

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

All shoreline details are from field inspection which was thorough. Low water lines are based on field inspection. Corrections from 1956 photographs where available were minor (56-W-1247 and 1248). Most of the shoreline appears not to have changed appreciably. Without the aid of new field inspection, other possible changes could not be made with certainty.

36. OFFSHORE DETAILS

See Item 49.

37. LANDMARKS AND AIDS

Point Judith Inner Breakwater Daybeacon has been omitted from Form 567. It was destroyed and also rebuilt in 1955. Consequently, there are three Aids and one Landmark on this survey.

38. CONTROL FOR FUTURE SURVEYS

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

No topographic stations have been established.

39. JUNCTIONS

Junctions have been made as follows:

To the north with T-11437.

To the east with T-11441.

To the south in Block Island Sound.

To the west with T-11439.

40. HORIZONTAL AND VERTICAL ACCURACY

Correction of shoreline and other details may be required west of Matunuck Point because of hurricane damage.

41. through 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

USGS 7½ min. quad. Kingston, R. I., scale 1:31680, 1942.

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 1211, scale 1:80,000 at Lat. 41° published Jan. 17, 1941, Rev. Aug. 15, 1955 (7th edition), 3/13/56.

Items to be applied to Nautical Charts immediately: None.

Items to be carried forward: None.

Respectfully submitted

Joseph D. McEvoy

Joseph D. McEvoy
Cartographer

Approved and Forwarded

10/30/57

William F. Deane
William F. Deane

CIR C&GS
Baltimore District Officer

PHOTOGRAMMETRIC OFFICE REVIEW

T-11440

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. Joseph D. McCarty
Reviewer

Henry B. Smith
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:

WORKS FOR CHARTS

24 October, 1957

ed from seaward to determine their value as landmarks be

Ichert

William F. Deane	Chief of Party.
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[illegible]

800 to 804. Positions of charted landmarks and *nonfloating* should be considered for the charts of the area and not by given.

49. NOTES FOR THE HYDROGRAPHER

A set of 1:10,000 ratio prints, showing detail points established for use in locating hydro signal sites, is included.

There are no recoverable topographic stations.

The area of Nebraska Shoal, not visible on the photographs, has not been located.

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

~~NON-FLOATING/AIDS/~~ LANDMARKS FOR CHARTS

TO BE CHARTED ~~NO/BE/RELETED~~ STRIKE OUT ONE

Baltimore, Maryland 24 October, 1957

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on ~~(NO/BE/RELETED)~~ the charts indicated.

The positions given have been checked after listing by Henry P. Eichert

William F. Peane, Chief of Party.

STATE	RHODE ISLAND	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
					LATITUDE #		LONGITUDE #									
					°	'	D.M. METERS	°	'	D.P. METERS						
		TO ER (CENTER OF THREE), abandoned Coast Artillery fire control tower, ht = 58 (129) (Δ B ₁ S ₁ , 1943)			41 22	24.370	751.8	71 35	51.615	N.A.	1927	1943				1210
								</								

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 charts.

REVIEW REPORT T-11440
Shoreline
April 21, 1960

62. Comparison with Registered Topographic Surveys

91	1:10,000	1839
1271	"	1872
1226	"	1871
3388	1: 5,000	1913
5095	1:10,000	1948

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

63. Comparison with Maps of Other Agencies

USGS Kingston, R. I. 1:31,680 1942

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

1211 1:80,000 7 Ed, January 1941 8/24/59



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

Hurricane "Carol" caused extensive damage to this

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11440

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			Before After Verification and Review
			Before After Verification and Review