

# 11443

Diag. Cht. No. 1211-2.

Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY  <b>DESCRIPTIVE REPORT</b>
Type of Survey <u>Shoreline</u>
Field No. <u>Ph-142</u> Office No. <u>T-11443</u>
<b>LOCALITY</b> State <u>Connecticut and Rhode Island</u> General locality <u>Pawcatuck River</u> Locality <u>Westerly, Rhode Island</u>
<u>1954</u> <b>CHIEF OF PARTY</b> <u>L.F.Woodcock, Chief of Party</u> <u>W.F.Deane, Balto. District Office</u>
<b>LIBRARY &amp; ARCHIVES</b>  DATE <u>April 1962</u>

USCOMM-DC 5087

# 11443

## DATA RECORD

- 2 -

T-11443

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): Air Photographic (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):

14 SEP 1959

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Sept 1960

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

~~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): HINCKLEY, 1934

Lat.: 41° 22' 49.212" (1518.2 m) Long.: 71° 51' 04.177" (97.1 m)

Adjusted  
~~1960~~

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)

- 4 -

Date: Aug. 1954

Date:

Date:

Mean High Water Location (III) (State date and method of location):

22 April 1954; Photogrammetric (Kelsh)

Date: 12/3/54

Date: 12/10/54

Date: 10/21/55

Date: 10/21/55

Date: 8/31/56

Date: 10/29/57

Date:

Date: 4/2/59

Date: 12/4/57

Date: 08-08-2024

Camera (kind or source) (III): **USCGS Type "W" - 6" focal length.**

PHOTOGRAPHS (III)

Number	Date	Time (EST)	Scale	Stage of Tide
54-W-800	4/22/54	1545	1:20,000	0.9' above MLW
801	"	"	"	"
802	"	"	"	"
803	"	"	"	"
852	"	1605	"	No Tidal Waters
853	"	"	"	"
854	"	"	"	"
855	"	"	"	"
856	"	"	"	"
857	"	"	"	"
858	"	"	"	"
859	"	"	"	"
799G	"	1545	"	"
799H	"	"	"	"
799I	"	"	"	"
799J	"	"	"	"

Tide (III)

Reference Station: **New London, Connecticut**  
 Subordinate Station: **Stonington, Connecticut**  
 Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
-	2.6	3.1
1.0	2.7	3.2

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **10.0**

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

**None**

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

**5.0**

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): **16**

Recovered: **10** Identified: **6**

Number of BMs searched for (II): **0**

Recovered: **0** Identified: **0**

Number of Recoverable Photo Stations established (III):

**None**

Number of Temporary Photo Hydro Stations established (III):

**None**

Remarks:

SUMMARY  
PROJECT PH 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 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.

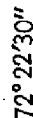
~~All~~ <sup>This</sup> sheets <sup>was</sup> were scribed and transmitted to the Washington Office by *Baltimore District Office*

Final Review was completed by April 1960.

Submitted by:

*A. K. Heywood*  
A. K. Heywood

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



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

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



## 2. AREAL FIELD INSPECTION

This shoreline map covers part of the southwestern corner of Rhode Island and part of the southeastern corner of Connecticut.

The salient features of the sheet consist of part of the towns of Westerly, Rhode Island and Pawcatuck, Connecticut in the southern part of the area. The Pawcatuck River wanders through the sheet and forms part of the boundary of Rhode Island and Connecticut. The river is not navigable, however, in this area.

The towns of Westerly and Pawcatuck are of an industrial nature, although the river will not accommodate large vessels.

The field inspection is believed to be complete and no area was purposely left for field edit. Field inspection was done on 1:10,000 scale single lens ratio prints 54-W-799H through 54-W-801 and 54-W-853 through 54-W-859.

The photographs were of recent date and of good quality and no difficulty was encountered in their interpretation.

## 3. HORIZONTAL CONTROL

All Coast and Geodetic Survey stations within the limits of the sheet were searched for. All stations recovered were identified on the photographs.

The following stations were reported lost: DIAMOND HILL TREE 1838; CORMORANT HILL 1838; and BIG HILL 1838.

In addition to the Coast and Geodetic Survey stations the following stations of other agencies were identified: 6M 1941(USGS); TEMP.STA.34 (USGS); STA. NO. 1411(CGS) 1936; and STA.NO.32(GGS). All of these stations are third-order traverse stations.

## 4. VERTICAL CONTROL

One tidal bench mark within the sheet was recovered and identified.

## 5. CONTOURS AND DRAINAGE

Contours inapplicable.

The drainage is minor, flowing into the Pawcatuck River and into the large swamp area surrounding Chapman Pond. The drainage has been indicated on the photographs.

6. WOODLAND COVER

The woodland cover was classified in accordance with project instructions and reference 5433 of the Topographic Manual.

7. SHORELINE AND ALONGSHORE FEATURES

The only shoreline within the sheet is that of the Pawcatuck River. This is a fast shoreline for the greater portion with fairly steep banks. In the upper reaches of the river it becomes apparent along the swampy areas.

Two bridges cross the river within the limits of the sheet. No clearances were measured on these as the river is not navigable beyond the highway bridge of U. S. Highway No. 1 south of the sheet limits.

No other shoreline features were noted.

8. OFFSHORE FEATURES

Inapplicable.

9. LANDMARKS AND AIDS

There are no landmarks or aids to navigation within the limits of this sheet.

10. BOUNDARIES, MONUMENTS AND LINES

The Connecticut-Rhode Island State boundary follows the Pawcatuck River throughout the delineation area of the map. Positions on this line based on latitudes and departures from triangulation station FORT HILL 1873, are given in the legal description of this line in "Special Report, State Boundaries, Project Ph-142." Point No. 1, an iron bolt, was searched for but not recovered. Local inquiry was made without success. This monument is not mapped on the Ashaway Quadrangle of the U. S. Geological Survey. One monument on the highway bridge in Westerly was recovered and identified. So far as could be determined this is the only existing monument south of the junction of the Ashaway and Pawcatuck Rivers.

11. OTHER CONTROL

No other control was established within this sheet.

12. OTHER INTERIOR FEATURES

All roads have been inspected and classified in accordance with reference 5441 of the Topographic Manual.

All buildings, other than public buildings, to be mapped have been indicated by a red "x" placed on the image of the building.

There are no landing fields or aeronautical aids in the area.

There are many quarries within the area from which granite is procured. The active of these have been so labeled on the photographs.

13. GEOGRAPHIC NAMES

No discrepancies were noted during field inspection.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

See Special Report, State Boundaries, Project Ph-142 to be forwarded to Washington Office at a later date.

Letter of Transmittal No. Ph-142-21, Data, Map T-11447, forwarded to Washington Office

Letter of Transmittal No. Ph-142-22, Data, Map T-11443, forwarded to Washington Office

OCT 25 1954

Submitted  
25 October 1954

*Leo F. Beugnet*

Leo F. Beugnet  
Carto. Survey Aid

Approved & Forwarded

OCT 25 1954

*Lorin F. Woodcock*

Lorin F. Woodcock  
Chief of Party

MAP T. 11443 PROJECT NO. Ph-142 SCALE OF MAP 1:10000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\phi$ -COORDINATE LONGITUDE OR $\lambda$ -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)
6M 139 (USGS), 1941	Ph stat copy G.S. Stening- ton Quad item #40 1927	1927	41 25 39.28		1211.8	(639.2)	1851.0				
ASHAWAY (Conn), 1937	Conn. 211 270	1927	71 45 19.47		452.1	(941.1)	1393.2				
HINCKLEY (Conn), 1934	Conn. 276	1927	41 25 07.524		232.1	(1618.9)	1851.0				
POTTER (RI), 1937 (CGS)	Conn. 211 270	1927	71 47 57.074		1325.4	(68.0)	1393.4				
STATION No. 1410 (CGS) 1936	Photo- stat copy	1927	41 22 49.212		1518.2	(332.8)	1851.0				
STONINGTON TOWN MONUMENT, T.M. No. 25	Photo- stat copy	1927	71 51 04.177		97.1	(1297.1)	1394.2				
STONINGTON TOWN MONUMENT	Photo- stat copy	1927	41 24 32.840		1013.1	(837.9)	1851.0				
STONINGTON TOWN MONUMENT	Photo- stat copy	1927	71 46 36.838		855.6	(537.6)	1393.2				
STONINGTON TOWN MONUMENT	Photo- stat copy	1927	X 847 922 33		2922	(2078)	5000				
STONINGTON TOWN MONUMENT	Photo- stat copy	1927	Y 207 565 58		2566	(2434)	5000				
STONINGTON TOWN MONUMENT	Photo- stat copy	1927	X 847 077 91		2078	(2922)	5000				
STONINGTON TOWN MONUMENT	Photo- stat copy	1927	Y 209 134 44		4134	(866)	5000				
STONINGTON TOWN MONUMENT	Photo- stat copy	1927	X 851 319 24		1319	(3681)	5000				
STONINGTON TOWN MONUMENT	Photo- stat copy	1927	Y 200 610 21		610	(4390)	5000				
STONINGTON TOWN MONUMENT	Photo- stat copy	1927	X 850 826 13		826	(4174)	5000				
STONINGTON TOWN MONUMENT	Photo- stat copy	1927	Y 200 253 84		254	(4746)	5000				
STONINGTON TOWN MONUMENT	Photo- stat copy	1927	X 848 591 23		3591	(1409)	5000				
STONINGTON TOWN MONUMENT	Photo- stat copy	1927	Y 201 917 97		1918	(3082)	5000				
STONINGTON TOWN MONUMENT	Photo- stat copy	1927	X 850 237 59		238	(4762)	5000				
STONINGTON TOWN MONUMENT	Photo- stat copy	1927	Y 198 975 24		3975	(1025)	5000				
TEMP. STA 34+ (USGS)		1927	41 26 03.65		112.6	(1738.4)	1851.0	Direct			
		1927	71 45 19.23		446.5	(946.6)	1393.1	No R card on 14 F.I.P. card.			

1 FT. = 3048006 METER

COMPUTED BY: J. B. McDonald

DATE 29 August 1955

CHECKED BY: J. Perrow

DATE 21 October 1955

M. 2386-12

[illegible]

COMPILATION REPORT  
Project Ph-112  
T-11443

Photogrammetric Plot Report:

Bound with the Descriptive Report for T-11440.

31. DELINEATION

The Kelsh plotter was used for delineation on vinylite projections.

32. CONTROL

Horizontal control was adequate. Vertical control was 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 adequate. No low water or shoal lines were necessary.

36. OFFSHORE DETAILS

See item 49.

37. LANDMARKS AND AIDS

There are no landmarks or aids to navigation within the limits of this sheet.

38. CONTROL FOR FUTURE SURVEYS

Recovery Forms 524 were submitted for the following:

SPIRE, 1935

TANK, 1935

W. GABLE, 1935

### 39. JUNCTIONS

Junctions have been made as follows:

To the north no contemporary survey.

To the east with T-11436.

To the south with T-11447.

To the west no contemporary survey.

### 40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

### 41. BOUNDARIES

Refer to paragraph 41, descriptive report for T-11447.

### 42. BRIDGES

The following is the comparison of the field data with that in the bridge book.

	Horizontal Clearance			Vertical Clearance	
	Left	Center	Right	MLW	MHW
<u>PAWCATUCK RIVER</u>					
Fixed, Hwy - Engineers	24.7	39.7	24.2	7.9 (center)	7.0 (center)
Field		40.0		8.6	5.9

43 thru 45 - Inapplicable.

### 46. COMPARISON WITH EXISTING MAPS

U.S.G.S., 7½ minute quadrangle Ashaway, Conn.-R. I., scale 1:31,680, 1942.

U.S.C. & G. S., Shoreline Survey T-9085 (1948) scale 1:10,000.

### 47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 1211, scale 1:80,000 Lat. 41°, published 1/17/41, (7th edition), revised 8/15/55, 3/31/56.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Approved and forwarded

*William F. Deane*  
William F. Deane,  
CDR, USN  
Baltimore District Officer

Respectfully submitted  
27 November 1957

*Edward L. Rolle*  
Edward L. Rolle,  
Carto. (Photo.)

# PHOTOGRAMMETRIC OFFICE REVIEW

T-11443

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. Joseph D. McEvoy Henry P. Eichert  
Reviewer 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 FOR THE HYDROGRAPHER

Three topographic stations were verified on this survey and are as follows:

SPIRE, 1935  
TANK, 1935  
W. GABLE, 1935

There is so little shoreline on this sheet that it can be covered with a set of 1:10,000 ratio photographs which will be forwarded with adjoining sheet T-11447. These photographs will identify the detail points established for use in locating hydro signal sites.

GEOGRAPHIC NAMES LIST

Aguntaug Brook  
Aguilla Brook

Chapman Pond  
Connecticut

Hinkley Hill

Kedinker Island

McGowan Brook  
McGowan Corners

New York, New Haven & Hartford

Pawcatuck  
Pawcatuck River

Rhode Island

Stillmanville

Westerly  
Woody Hill Reservation

*George M. Bace*  
GEOGRAPHIC NAMES SECTION  
2 SEPTEMBER 1960

REVIEW REPORT T-11443  
SHORELINE  
January 16, 1961

62. Comparison with Registered Topographic Surveys

88	1:10,000	1839-55
1736	1:10,000	1886
9085	1:10,000	1948

The above surveys are superceded by this new manuscript in areas that are common.

63. Comparison with Maps of Other Agencies

Ashaway	Conn., R. I.	1:31,680
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64. Comparison with Contemporary Hydrographic Surveys

None.

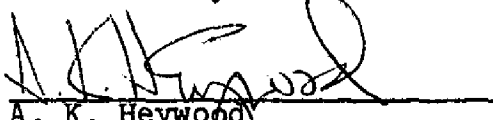
65. Comparison with Nautical Charts

Chart 1211	1:80,000	1/17/41	7th Edition
8/1/60			


66. Adequacy of Results and Future Surveys

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


Submitted by:

  
A. K. Heywood

Approved by:

  
Chief, Review & Drafting  
Section  
Photogrammetry Division

  
Chief, Nautical Chart ~~Branch~~ Div.

  
Chief, Photogrammetry Div.

  
Chief, Coastal Surveys Division

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971). The concentration of chlorophylls was expressed as  $\mu\text{g mL}^{-1}$  of the sample.

T-11443

### Record of Application to Charts

[illegible]

M-2158-1

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.