

11446

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-1142 Office No. T-11446

LOCALITY

State Connecticut & Rhode Island

General locality Fishers Island Sound

Locality Wequetequock Cove to Mystic

Harbor

1954

CHIEF OF PARTY

L.F. Woodcock, Chief of Party

W.F. Deane, Balto. District Office

LIBRARY & ARCHIVES

DATE April 1962

USCOMM-DC 5087

11446

DATA RECORD

T-11446

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 (Field)
18 August 1954 (Supp. 3, Field)
15 September 1955

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:4000

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):

Sept 1960

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

~~MEAN LOW WATER OR MEAN LOWER LOW WATER~~

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): QUAMBAUG, 1934

Lat.: 41° 20' 18.521" (571.4 m) Long.: 71° 56' 23.178" (538.9 m)

Adjusted
~~UNADJUSTED~~

Plane Coordinates (IV):

State:

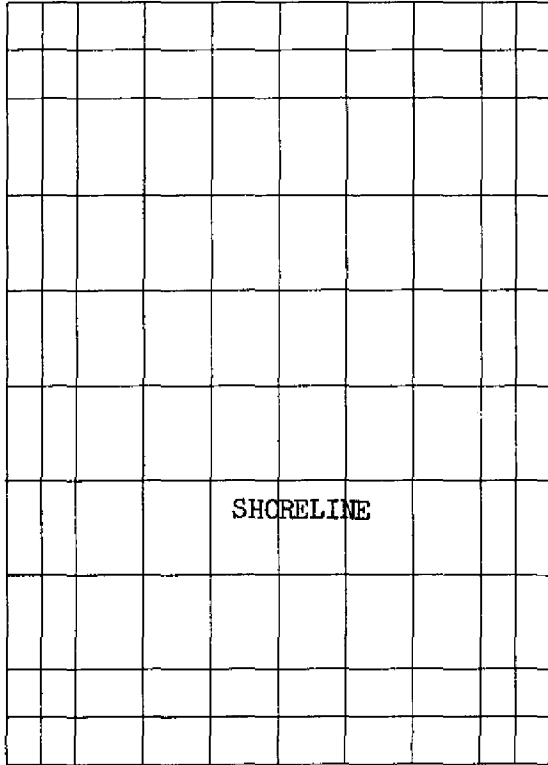
Zone:

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.



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

DATA RECORD

Field Inspection by (II) **B. F. Lampton, Jr.**

Date: **Sep, Oct 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 Plotter)

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

Date: **12/7/54**

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

Date: **12/7/54**

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

Date: **12/55**

Control checked by (III): **C. O. DeMarr**

Date: **3/26/56**

Radial Plot or Stereoscopic Control extension by (III):
E. L. Rolle

Date: **5/24/56**

Stereoscopic Instrument compilation (III):
Planimetry **J. C. Richter**
~~OSR 5008~~

Date: **9/26/57**

Date: **----**

Manuscript delineated by (III): **R. E. Lindauer**
(Scribing) J. C. Cregan

Date:

Photogrammetric Office Review by (III): **J. W. Vonasek**

Date: **4/23/58**

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 (E.S.T.)			
54-W-765 thru 771	4/22/54	1525		1:20,000	1.0' above MLW
54-W-803 thru 808	"	1545		"	0.9' " "
54-W-847 thru 852	"	1605		"	0.8' " "
43829 thru 43832	4/30/54	1232		1:10,000	0.1' below MLW

Tide (III)
(from predicted tables)

Reference Station: NEW LONDON CONN.
Subordinate Station: Stonington
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	2.6	3.1
	2.7	3.2

Washington Office Review by (IV): *A.K. Heywood*

Date: *22 Sept. 1960*

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

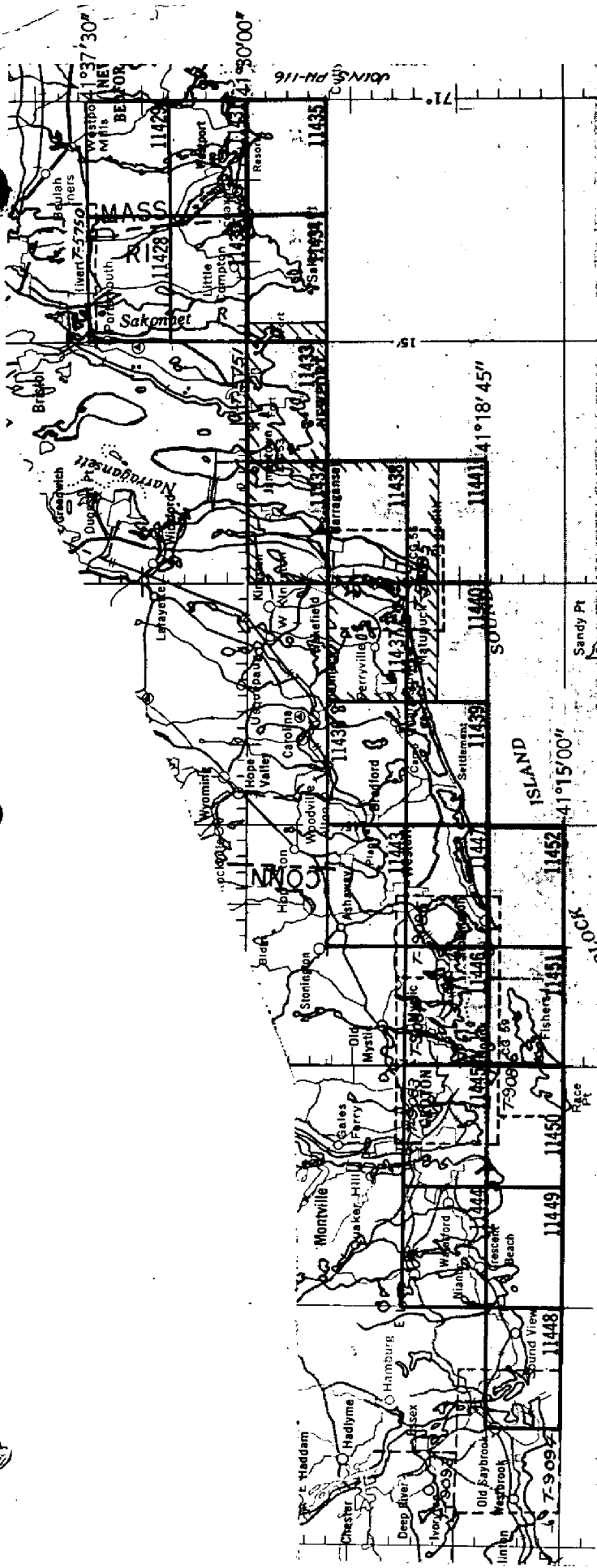
Date:

Land Area (Sq. Statute Miles) (III): 17.5
 Shoreline (More than 200 meters to opposite shore) (III): 32 statute mi.
 Shoreline (Less than 200 meters to opposite shore) (III): 16 " "
 Control Leveling - Miles (II):
 Number of Triangulation Stations searched for (II): 67 Recovered: 51 Identified: 43
 Number of BMs searched for (II): 9 Recovered: 9 Identified: 7
 Number of Recoverable Photo Stations established (III): 3*
 Number of Temporary Photo Hydro Stations established (III):

Remarks:
*In addition, 3 stations were recovered.

SHORELINE MAPPING PROJECT PH-142

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



OFFICIAL MILEAGE FOR COST ACCOUNTS			
SHEET NO.	SHORELINE LIN. MI.	AREA SQ. MILES	
11428	12	23	11447
11429	10	26	11448
11430	10	24	11449
11431	35	22	11450
11432	27	17	11451
11433	26	7	11452
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	10	16	
TOTALS	450	450	308

----- Indicates shoreline revision
 --- Topographic 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".

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

This
~~All~~ sheets were 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

The mainland is a rugged series of ridges running generally north and south. In the valleys between the ridges are the Mystic River, a number of small bays, marsh, swamp, minor streams, and several lakes, most of which are formed by dams. There a number of settlements along the coast, chiefly Stonington, Lords Point, Mystic, West Mystic, and Noank. The sheet is crossed by the main line of the New York, New Haven and Hartford Railroad and by U. S. Highway No. 1, which in this section is used as a connection between local towns rather than a through highway.

There are a number of offshore islands, most of which are quite rugged, the chief exceptions being Sixpenny Island, which is marsh and shell banks, and a large, unnamed sand bar southeast of Stonington.

Field work on the sheet was done after two hurricanes, on 31 August and 11 September 1954. Changes in the shoreline caused by the storms appear to be very minor except at the large sand bar southeast of Stonington. Many piers were damaged or destroyed throughout the sheet. Only a few buildings were destroyed, with the exception of heavy damage at Lords Point.

The field inspection is believed to be complete.

The quality of the photography is adequate. Field notes have been applied to the following photographs: single lens ratio prints 54-W-765 through 54-W-771, 54-W-803 through 54-W-809, 54-W-847 through 54-W-849, and 54-W-851; nine lens photographs 43829⁴⁴⁴ and 43832.

3. HORIZONTAL CONTROL

All Coast and Geodetic Survey horizontal control was searched for. Of the recovered stations, selected stations were identified to provide a minimum spacing of one-half mile. In addition third-order traverse stations of the Connecticut Geodetic Survey were searched for and identified if recovered in accordance with the project instructions.

The following stations of the Connecticut Geodetic Survey were recovered: 1432 1936; 1883 1939; 1885 1939; 2962 1941; 2963 1941; 2795 1940; 2797 1940; 2798 1940.

The following Coast and Geodetic Survey triangulation stations have been reported as lost: STONINGTON TOWN HALL TOWER 1934; ALLENS CHIMNEY 1934; STONINGTON 1934; GRAVES 1934; STONINGTON OUTER BREAKWATER LIGHTHOUSE 1904; STONINGTON OUTER BREAKWATER LIGHT 1934;

The following Connecticut Geodetic Survey stations have been reported as lost: 1401 1936; 1402 1936; 1418 1936; 1419 1936; 1433 1936; 1884 1939; 1886 1939; 2794 1940; 2796 1940; 2799 1940.

At station GRAVES 1934, Reference Mark No. 1 was identified. It was possible to identify STONINGTON OUTER BREAKWATER LIGHT 1934, as the station was apparently destroyed after photography.

4. VERTICAL CONTROL

The following tidal bench marks were recovered: WEST MYSTIC (WILLOW POINT), MYSTIC RIVER, TIDAL BENCH MARKS 1(1917), 2(1917), 3(1917), L6(1922), STONINGTON, STONINGTON HARBOR, TIDAL BENCH MARKS 7(1917), 8A(1926), 9(1917), 10(1918), N6(1922). No other vertical control required.

5. CONTOURS AND DRAINAGE

Contours inapplicable.

Drainage within the sheet is chiefly in the form of swamps, with minor connections of streams and intermittent streams. It is believed that all drainage has been indicated on the field photographs.

6. WOODLAND COVER

Woodland cover has been indicated in accordance with the project instructions.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line has been indicated in accordance with the Topographic Manual. The approximate mean low water line and the character of the foreshore has been indicated on nine-lens photographs. There was considerable damage to piers by hurricanes. Piers completely washed away have been deleted. Those heavily damaged but with remains standing have been indicated as "pier ruins". It is probable that many of these will be rebuilt.

Other shoreline features have been indicated in accordance with standard practice.

8. OFFSHORE FEATURES

Rocks within the sheet were visited by boat. They have been indicated by the elevation of the rock in feet above water, followed by the Eastern Standard Time of the measurement. The date of measurement is given elsewhere on each photograph.

Charts of the area show numerous rocks awash and submerged rocks which were not visible during field inspection and which should be investigated by the hydrographer.

On the southeast shore of Noank, a number of wrecks have been indicated. These are at a shipyard which seems to be chiefly engaged in salvaging scrap and parts of value from old boats. The owner of the yard stated that he did not intend to move the boats indicated as wrecks; however, the shipyard is for sale, and he could not speak for any future owner.

9. LANDMARKS AND AIDS

Landmarks and aids to navigation have been reported on Form 567.

10. BOUNDARIES, MONUMENTS AND LINES

See "Special Report, Boundaries, Project Ph-142."

A number of area limits have been indicated on the photographs. These are not official boundaries, but area limits as they appeared on the ground.

11. OTHER CONTROL

Eleven previously established recoverable topographic stations have been recovered and identified. Three recoverable topographic stations have been established as landmarks.

12. OTHER INTERIOR FEATURES

Because of the large number of bridges over navigable water and congestion on the field inspection photographs, each bridge has been assigned a letter and the clearances are listed as follows:

Bridge A, Fixed, 1 span, hor.cl. 64.5 ft., Vert.Cl. 7.5 ft. 1145 EST, 5 October 1954, railroad.

Bridge B, Fixed, 1 span, hor.cl. 71.0 ft., Vert.Cl. 4.1 ft. 1435 EST, 5 October 1954, railroad.

Bridge C, fixed, 1 span, hor. cl. 59.0 ft., vert. cl. 3.9 ft. 1515 EST, 5 October 1954, railroad.

Bridge D, Fixed, 3 span, hor. cl. N. span 36 ft., center span 36 ft., S. span 36 ft., vert. cl. 5.9 ft., 0925 EST 7 October 1954, railroad.

Bridge E, Bascule, 1 span, hor. cl. 74.7 ft., vert. cl. 7.2 ft., 1015 EST 7 October 1954, highway.

Bridge F, Fixed, 1 span, hor. cl. 25 ft., vert. cl. 7.1 ft., 1055 EST, 7 October 1954, highway.

Bridge G, Fixed, 2 spans, hor. cl. N. span 14 ft., S. span 14 ft., vert. cl. 6.7 ft. 1100 EST 7 October 1954, highway.

Bridge H, Fixed, 1 span, hor. cl. 51 ft. vert. cl. 7.4 ft. 1000 EST 8 October 1954, railroad.

Bridge J, Fixed, 1 span, hor. cl. 17.0 ft. vert. cl. 4.1 ft. 0905 EST, 11 October 1954, highway.

Bridge K, Fixed, 32 spans (trestle), hor. cl. channel span 19.5 ft., vert. cl. 7.5 ft. 0930 EST, 11 October 1954, highway.

Bridge L, Swing, 2 spans, hor. cl. E. span 69.1 ft., W(channel) span 66.1 ft., vert. cl. 5.1 ft., 1015 EST 11 October 1954, railroad.

It is noted that two bridges are listed at Bakers Cove (Mystic River), Conn. in the "List of Bridges Over Navigable Waters of the U.S." This cove is named Bebee Cove on the USGS "Mystic" quadrangle and is unnamed on nautical charts.

Of the two listed, the northerly could not be approached by outboard skiff and was not measured, as it was not over navigable water.

Buildings have been indicated in accordance with Supplement 3 to the project instructions.

Stonington Landing Field, shown on the USGS "Mystic" quadrangle, is no longer in use.

Mystic Marine Museum is a well known local feature. It comprises several buildings as well as 2 permanently moored boats and one boat on land, which are on display as museum pieces.

Mystic Seaport is operated in conjunction with the museum and is public docking and fueling facilities, etc. for visiting yachts.

14. GEOGRAPHIC NAMES

No discrepancies in geographic names were noted during field work.

15. SPECIAL REPORTS AND SUPPLEMENTAL DATA

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

Letter of Transmittal No. Ph-142-4, Landmarks for Charts, Form 567, to be submitted to Washington Office at a later date.

Letter of Transmittal No. Ph-142-25, Data, Location of Aids to Navigation, forwarded to Washington Office 26 October 1954.

Letter of Transmittal No. Ph-142-36, Data, Map T-11446, forwarded to Washington Office

OCT 28 1954

Submitted
27 October 1954

B. Frank Lampton, Jr.

B. Frank Lampton, Jr.
Carto. Survey Aid

Approved and forwarded

OCT 28 1954

Lorin F. Woodcock

Lorin F. Woodcock
Chief of Party

MAP T-11446

PROJECT NO. Ph-142

SCALE OF MAP 1:10,000

SCALE FACTOR 1.000

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		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
					FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
4(USE) 1934	Conn 81 276 20-34	N.A. 1927	41 20	11.224	346.3	1504.7					
SS 4(USE) 1934, RM 2		"	71 52	43.086	1001.8	393.3					
1432, CGS, 1936	Photo New Lon- don quad	"	41 20		361.6	1489.4					
		"	71 52		1007.8	387.3					
SS 1432, CGS, 1936		"	203,308.98		3309.0	1691.0					
		"	810,184.57		185	4815					
		"	203,301.96		3302	1698					
		"	810,220.90		221	4779					
1883, CGS, 1939	"	"	204,961.22		4961	39					
		"	815,875.96		876	4124					
SS 1883, CGS, 1939	"	"	205,038.26		38	4962					
		"	816,123.24		1123	3877					
1885, CGS, 1939	"	"	204,353.45		4353	647					
		"	816,084.91		1085	3915					
2795, CGS, 1940	"	"	207,842.67		2843	2157					
		"	833,840.01		3840	1160					
SS 2795, CGS, 1940	"	"	207,837.67		2838	2162					
		"	833,872.70		3873	1127					
2796, CGS, 1940	"	"	201,521.30		1521	3479					
		"	832,672.24		2672	2328					
2797, CGS, 1940	"	"	200,546.78		547	4453					
		"	833,262.06		3262	1738					
SS 2797, CGS, 1940	"	"	200,556.43		556	4444					
		"	833,211.45		3211	1789					

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

DATE December 1955
CHECKED BY C. O. DeMarr

DATE March 1956

MAP T. 11446

PROJECT NO. Ph-142

SCALE OF MAP 1:10,000

SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
					FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
2798, CGS, 1940	Photo Stat New London Quad.	N.A. 1927	195,885.21		685	4115					
SS 2798, CGS, 1940	"	"	836,868.01		1868	3132					
2962, CGS, 1941	"	"	196,331.58		1332	3668					
2962, CGS, 1941	"	"	836,586.41		1586	3404					
2962, CGS, 1941	"	"	191,600.29		1600	3400					
2962, CGS, 1941	"	"	837,823.72		2824	2176					
2962, CGS, 1941	"	"	191,712.75		1713	3287					
2963, CGS, 1941	"	"	837,835.42		2835	2165					
AMERICAN VELVET CO., STACK, 1934	Conn. 89 276 19-34	"	190,534.07		534	4466					
BAPTIST HILL, 1934	Conn. 33 276 16-33	"	837,306.77		2307	2693					
SS BAPTIST HILL, 1934	"	"	41 20 17.109		527.8	1323.2					
BROWN, 1934	Conn. 78 276 17-33	"	71 53 56.428		1312.0	83.1					
BROWN 2, 1948	Conn. 78 276 33	"	41 21 07.886		243.3	1607.7					
CHIMNEY, 1935	Form 524	"	71 58 56.925		1323.3	71.5					
		"	41 21		223.0	1628.0					
		"	71 58		1294.1	100.7					
		"	41 20 31.559		973.6	877.4					
		"	71 57 46.942		1091.4	303.6					
		"	41 20 31.290		965.3	885.7					
		"	71 57 46.785		1087.8	307.2					
		"	41 22 54.631		1685.4	165.6					
		"	71 58 08.245		191.6	1202.6					

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PROJECT NO. Ph-142

SCALE OF MAP 1:10,000

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STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE		DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
			FORWARD	(BACK)	FORWARD	(BACK)		FORWARD	(BACK)	
CLAM POINT, 1934	Conn. 76 276 17-33	N.A. 1927	44	19	58.624	1808.6	42.4			
			71	58	26.156	608.2	787.0			
SS CLAM POINT, 1934		"	44	19		1832.5	18.5			
			71	58		610.6	784.6			
CRANDALL, 1934	Conn. 77 276 18-33	"	44	20	01.594	49.2	1801.8			
			71	57	07.407	172.2	1223.0			
SS CRANDALL RM 1, 1934		"	44	20		36.4	1814.6			
			71	57		185.0	1210.2			
CUNNINGHAM, 1934	Conn. 76 276 15-32	"	44	19	46.918	1447.4	403.6			
			71	59	10.406	242.0	1153.3			
SS CUNNINGHAM, 1934 RM No. 2		"	44	19		1432.6	418.4			
			71	59		223.1	1172.2			
DODGE, 1934	Conn. 77 276 17-33	"	44	19	39.460	1217.3	633.7			
			71	57	20.366	473.6	921.8			
ENDER'S CUFOIA, 1934	Conn. 87 276 17-33	"	44	19	18.747	578.3	1272.7			
			71	57	48.440	1126.6	268.9			
SS DODGE, 1934 RM No. 1		"	44	19		1206.3	644.7			
			71	57		456.9	938.5			
FINDLAY'S CHIMNEY, 1934	Conn. 88 276 18-33	"	44	20	59.017	1820.7	30.3			
			71	55	36.942	858.8	6536.0			
DOOGAN, 1935	Form 524	"	44	22	11.868	366.1	1484.9			
			71	57	33.515	778.9	615.5			

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					FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
FREEMAN HOUSE, 1935	Conn. 89 276 19-34	N.A. 1927	41	20	13.076	1447.6		403.4	1447.6		
			71	53	17.237	994.3		400.8	994.3		
GRAVES, 1934 RM No. 1	Conn. 76 276 15-32	"	41	19		1674.4		176.6	1674.4		
			71	59		12.2		1383.4	12.2		
HILL, 1934	Conn. 77 276 16-17	"	41	20	25.388	1067.8		783.2	1067.8		
			71	58	46.001	325.5		1069.5	325.5		
KING HOUSE, SOUTH GABLE, 1935	Conn. 89 276 20-34	"	41	20	29.764	932.8		918.2	932.8		
			71	52	47.779	284.1		1110.9	284.1		
KNAPP'S CUFOLA, 1934	Conn. 86 276 15-32	"	41	19	21.275	1194.7		656.3	1194.7		
			71	59	21.744	889.8		505.7	889.8		
LAMBERT, 1934	Conn. 82 276 19-34	"	41	20	28.871	960.3		890.7	960.3		
			71	54	40.943	443.1		951.9	443.1		
LEDWOOD, 1934	Conn. 81 276 19-34	"	41	20	05.075	1694.4		156.6	1694.4		
			71	53	18.150	973.2		422.0	973.2		
LORD'S POINT 1934	Conn. 77 276 18-33	"	41	19	58.121	58.0		1793.0	58.0		
			71	55	48.775	261.0		1134.2	261.0		
LORD'S POINT, 1934	"	"	41	19		13.3		1837.7	13.3		
			71	55		268.7		1126.5	268.7		
MARCUS, BARN GABLE, 1934	Conn. 89 276 18-33	"	41	21	47.54	384.4		1466.6	384.4		
			71	54	09.44	1175.2		219.4	1175.2		
MASON POINT, 1934	Conn. 76 276 17-33	"	41	19	15.938	1359.3		491.7	1359.3		
			71	58	12.343	1108.4		287.1	1108.4		

MAP T. 11446

PROJECT NO. Ph-142

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SCALE FACTOR 1.000

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					FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
MONTAUK, 1934	Conn. 33 276 18-33	N.A. 1927	41 21	36.440	1124.2	726.8					
SS MONTAUK, 1934 RM No. 1		"	71 55	43.172	1003.4	391.2					
			41 21		1129.8	721.2					
			71 55		969.3	425.7					
MORGAN POINT, LICHTHOUSE, 1874	Conn. 86 276 15-32	"	41 18	58.91	1817.4	33.6					
			71 59	23.81	553.8	841.8					
MYSTIC, 1934	Conn. 33 276 29-13	"	41 18	54.055	1667.5	183.5					
			71 58	42.067	978.5	417.1					
SS MYSTIC, 1934		"	41 18		1663.5	187.5					
			71 58		982.6	413.0					
MYSTIC, ELEVATED TANK, 1932	Conn. 78 276 16-33	"	41 21	30.857	951.9	899.1					
			71 58	40.965	952.2	442.4					
MYSTIC FLAGPOLE, 1934	Conn. 86 276 16-33	"	41 21	16.465	507.9	1343.1					
			71 58	05.251	122.1	1272.6					
MYSTIC WOOLEN CO. O STACK, 1935	Form 524	"	41 23	18.235	562.6	1288.4					
			71 57	32.965	748.5	645.5					
NOANK, 1934	Conn. 76 276 15-33	"	41 18	58.403	1801.7	49.3					
			71 59	23.251	540.8	854.8					
NOANK LIGHT, 1934	Conn. 76 276 35	"	41 18	58.358	1800.3	50.7					
			71 59	15.610	363.1	1032.5					
OLD MYSTIC METHO- DIST CH. SPIRE, 1935	Form 524	"	41 23	25.265	779.4	1071.6					
			71 57	37.304	866.7	527.3					

MAP T. 11446

PROJECT NO. Ph-142

SCALE OF MAP 1:10,000

SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ν -COORDINATE LONGITUDE OR α -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)
OLD WINDMILL TOWER, 1935	Form 524	N.A. 1927	41	23	11.058	341.1	1509.9				
			71	56	56.072	1302.8	91.3				
PACKERS TAR SOAP STACK, 1934	Conn. 87 276 16-33	"	41	21	02.374	73.2	1777.8				
			71	57	44.385	1031.8	363.0				
PALMER'S FLAGPOLE, 1934	Conn. 88 276 18-33	"	41	21	39.08	1205.6	645.4				
			71	55	44.46	1033.4	361.2				
PINE POINT, 1934	Conn. 78 276 16-33	"	41	20	28.300	873.1	977.9				
			71	58	21.952	510.4	884.6				
SS PINE POINT, 1934, RM No. 2	"	"	41	20		859.4	991.6				
			71	58		512.0	883.0				
QUAMBAUG, 1934	Conn. 77 276 18-34	"	41	20	18.521	571.4	1279.6				
			71	56	23.178	538.9	856.2				
RHODES FOLLY BEACON, 1904	Conn. 278	"	41	19	50.88	1569.6	281.4				
			71	53	42.12	979.5	415.7				
ROSSIE VELVET CO., SHORT STACK, 1934	Conn. 87 276 16-33	"	41	21	51.482	1588.2	262.8				
			71	57	47.556	1105.3	289.2				
ROSSIE VELVET CO., TALL STACK, 1934	Conn. 87 276 16-33	"	41	21	51.585	1591.4	259.6				
			71	57	46.518	1081.2	313.3				
SADONIA TOWER, 1934	Conn. 87 276 17-33	"	41	20	47.559	1467.2	383.8				
			71	57	29.607	688.3	706.6				

MAP T. 11446

PROJECT NO. Ph-142

SCALE OF MAP 1:10,000

SCALE FACTOR 1.000

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)		FORWARD	(BACK)	
STONINGTON BREAK- WATER LIGHT, 1934	Conn. 80 276 36	N.A. 1927	41	19	30.057	927.3	923.7			
			71	54	49.070	1141.2	254.2			
STONINGTON FLAGPOLE, 1934	Conn. 88 276 19-34	"	41	20	21.27	656.2	1194.8			
			71	54	27.70	644.1	751.0			
STONINGTON HARBOR LIGHTHOUSE, 1873	Conn. 278 276 36	"	41	19	42.17	1300.9	550.1			
			71	54	21.71	504.9	890.4			
STONINGTON INNER BREAKWATER LIGHT, 1934	Conn. 82 276 36	"	41	19	49.705	1533.4	317.6			
			71	54	35.789	832.2	563.1			
STONINGTON SCHOOL CUPOLA, 1934	Conn. 88 276 19-34	"	41	20	03.87	119.4	1731.6			
			71	54	12.11	281.6	1113.6			
WAMPFASSUC, 1934	Conn. 33 276 18-19-34	"	41	19	52.102	1607.3	243.7			
			71	55	11.203	260.5	1134.7			
SS WAMPFASSUC, 1934	"	"	41	19		1590.8	260.2			
			71	55		284.3	1111.2			
WAMPFASSUC, BARN CUPOLA, 1934	Conn. 88 276 18-34	"	41	20	24.848	766.6	1084.4			
			71	55	16.881	392.5	1002.5			
WATROUS, 1934	Conn. 78 276 16-33	"	41	21	00.000	000.0	1851.0			
			71	58	22.539	524.0	870.8			
SS WATROUS, 1934	"	"	41	20		1843.9	7.1			
			71	58		522.1	872.7			
STONINGTON, OUTER BREAKWATER LIGHT, 1934	Conn. 84	"	41	18	59.904	1817.2	33.8			
			71	54	30.790	716.1	679.5			

MAP T. 11446
PROJECT NO. Ph-142
SCALE OF MAP 1:10,000
SCALE FACTOR 1,000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-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)	
WILCOX LOOKOUT TOWER, 1934	Conn. 87 276 18-34	N.A. 1927	41	20	21.260	655.9	1195.1			
			71	56	35.948	835.8	559.3			
WILLIAMS, 1935	Form 524	"	41	23	11.015	339.8	1511.2			
			71	57	04.855	112.8	1281.2			
WHALE ROCK DAY BEACON, 1954	G.P. p. 335	"	41	18	49.726	1534.0	317.2			
			71	59	22.730	528.7	867.1			
RHODES FOLLY LIGHT, 1948	Form 524	"	41	19		1569.6	281.4			
			71	53		979.5	415.8			
STONINGTON RM No. 1, 1934	Conn. 81 Comp.	"	41	19		1220.4	630.6			
			71	54		475.7	919.7			

19

COMPILATION REPORT
Project Ph-142
T-11446

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

31. DELINEATION

The Kelsh plotter was used for delineation on vinylite and mylar projections.

32. CONTROL

Horizontal control was adequate. Vertical control is inapplicable.

KING HOUSE, SOUTH GABLE, 1935 - was misidentified as the geographic position plotted on the south gable of a house about one-quarter of a mile to the south.

DODGE, 1934 - RM No. 1 was selected as the sub-station at the center of a boulder. The multiplex position plotted 0.7 mm NE of its position.

4 (USE), 1934 - RM No. 2 was selected as the sub-station at the center of a boulder. The multiplex position plotted about 2.0 mm SW of its position; closer to the position of RM No. 1

STONINGTON OUTER BREAKWATER LIGHT, 1934 - position was held to delineate the breakwater. The light was rebuilt in 1956.

33. SUPPLEMENTAL DATA

Final Name Standard dated 12/15/54 and Bureau surveys T-9084 and T-9085 were used for geographic names.

34. CONTOURS AND DRAINAGE

Drainage is complete. Contours are inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

All shoreline details are from field inspection. Low water lines are based on field inspection on the nine-lens photographs.

The shoreline of the sand bar southeast of Stonington has been shown with a broken line because of the changes caused by storms since photography. For this reason also, the shallow area between the sand bar and Hepatree Point to the south (T-11451) has not been delineated.

Miner Burial Ground appears to have been misidentified (photo. 807). It has been delineated to agree with survey T-9084.

36. OFFSHORE DETAILS

Eight features with geographic names could not be delineated because they were not visible on the photographs. See paragraph 49.

37. LANDMARKS AND AIDS

Forms 567 were submitted for five aids and six landmarks to be charted and one of each to be deleted.

Station SPIRE, 1948; previously shown as a landmark and recovered as a topographic station, was added to the list of landmarks to be charted.

STONINGTON HARBOR DAYBEACON 6, 1954 was located by theodolite cuts from four photo points.

38. CONTROL FOR FUTURE SURVEYS

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

Recovery Forms 524 were submitted for three stations within the area of this survey and seven stations to the north of the survey limits.

39. JUNCTIONS

Junctions have been made as follows:

- To the north, no contemporary survey.
- To the east with T-11447.
- To the south with T-11451.
- To the west with T-11445.

40. HORIZONTAL AND VERTICAL ACCURACY

Correction of the shoreline will be required on the sandbar south-east of Stonington. See item 7 of field inspection report.

41. BOUNDARIES

The Connecticut-Rhode Island state boundary was plotted to scale from coordinates given in appendix 5 of the boundary report and transferred to the manuscript holding the position of an identified boundary monument on the bridge at Westerly (T-11443) and station FORT HILL, 1873 (T-11446).

One of the corners plotted very close to the position of RHODES FOLLY BEACON, 1904 so that station was used as the corner.

42. BRIDGE CLEARANCES

The following are the bridge clearances in this area as measured by the field party (see p. 9 of the field report) compared with the listing in the bridge book by the Corps of Engineers.

BRIDGE	Horizontal Clearance, Feet			Vertical Clearance, Feet	
	left span	center span	right span	MLW	MHW
BAKERS COVE (Bebec Cove)					
D. Fixed RR - Engrs		35		7.4	4.8
Field	36	36	36	6.6	4.0
MYSTIC RIVER, CONN.					
J. Fixed Hwy - Engrs	1	18		5.7	3.3
Field		17		6.9	4.3
L. Swing RR - Engrs.	67		67.3	7.5	4.9
Field	69.1(E)		66.1(W)	7.0	4.4
E. Bascule Hwy-Engrs		65		7.1	4.5
Field		74.7		7.7	5.1
MASON ISLAND TO BAKER ISLAND					
K. Fixed Hwy -Engrs		not listed			
32 spans Field		19.5		10.0	7.4
QUAMBAUG COVE (Quiambog Cove)					
H. Fixed RR - Engrs		50		5.6	3
Field		51		8.0	5.3
F. Fixed Hwy - Engrs		27		7.5	4.9
Field		25		7.6	4.9
QUANADUCK COVE					
G. Fixed Hwy - Engrs	14		14	7.5	4.9
Field	14		14	7.2	4.5
STONINGTON HARBOR					
B. Fixed RR - Engrs		67.5		7.5	4.9
Field		71.0		6.7	4.0
C. Fixed RR - Engrs		56.5		7.5	4.9
Field		59.0		6.4	3.7
WEQUETEQUOCK RIVER					
A. Fixed RR - Engrs		64		9.47	6.77
Field		64.5		9.3	6.6

Several other bridges were described as having skiff clearance.

43 - 45. Inapplicable

46. COMPARISON WITH EXISTING MAPS

USGS 7 $\frac{1}{2}$ minute quadrangle Mystic, Conn.-N.Y.-R.I., scale 1:31,680
edition of 1944, reprinted 1951.

Bureau surveys T-9084 (1948) scale 1:10,000 and T-9085 (1948) scale
1:10,000.

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 358, scale 1:20,000, published Dec. 9, 1942, corrected
to 5/11/56.

Items to be applied to nautical charts immediately: None.
Items to be carried forward: None.

Respectfully submitted
23 April 1958

Joseph W. Vonasek
Joseph W. Vonasek
Carto. (Photo.)

Approved and forwarded

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

PHOTOGRAMMETRIC OFFICE REVIEW

T. 11446

- 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 W. Conasak
Reviewer

Henry P. Fisher
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 HYDROGRAPHER

A set of 1:10,000 scale ratio prints has been prepared showing detail points for use in locating photo-hydro signals.

Five recoverable topographic stations appear on the manuscript:

COOGAN, 1935
CLOCK TOWER, 1954
SPIRE, 1948
TANK, 1954
TANK (HIGHER OF TWO) 1954

The following offshore features could not be identified on the photographs and have not been delineated:

Academy Rock	Noyes Shoal
Ellis Reef	Penguin Shoal
Middle Ground	Ram Island Shoal
Noyes Rock	Red Reef
	Whale Rock

The charted pipeline area at Noank was not field identified.

STONINGTON OUTER BREAKWATER LIGHT, 1934 was used for the delineation of the breakwater. The light was rebuilt in 1956 after being destroyed by a hurricane and its present position should be verified.

NONFLOATING AIDS OR MARKERS FOR CHARTS

TO BE CHARTED STRIKE OUT ONE
~~ADDED/DELETED~~

Baltimore, Maryland 28 Oct. 1958

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~(charts)~~ the charts indicated.

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

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	NEARBY CHART	OFFSHORE CHART	CHARTS AFFECTED	
			LATITUDE*		LONGITUDE*								DATUM
			D. M.	SECONDS	D. P.	SECONDS							
LT	Moank Light (△) Moank Light, 1934)		42	18	58.358	71	59	15.610	N.A.	1927	X	358, 359, 1211	
DAYBN	Whale Rock Daybeacon (△) Whale Rock Daybeacon, 1954)		42	18	19.726	71	59	22.730	"	1954	X	"	
LT	Stonington Breakwater Light (△) Stonington Breakwater Light, 1934)		42	19	30.057	71	54	49.070	"	1934	X	358, 1211	
LT	Stonington Inner Breakwater Light (△) Stonington Inner Breakwater Light, 1934)		42	19	49.705	71	54	35.789	"	"	X	"	
DAYBN 6	Stonington Harbor Daybeacon 6, 1954)		42	20	01.52	71	54	38.88	"	1954	X	"	

William F. Deane Chief of Party

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

NONFLUORATING AIDS ON LANDMARKS FOR CHARTS

TO BE CHARTED STRIKE OUT ONE
~~TO BE DELETED~~

Baltimore, Maryland

Oct. 28 19 58

I recommend that the following objects which have ~~(deleted)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted)~~ the charts indicated.

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

William F. Deane Chief of Party

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE*	LONGITUDE*	DATUM	D.P. METERS						
				° ' "	° ' "		' "						
CUPOLA	CONNECTICUT	Abandoned Lighthouse, now charted as old tower, ht=44(54) (△) Morgan Point Lighthouse, 1874)		41 18	71 59	NA	553.8	T-11446	1874	X			358, 359
TANK		Water, steel, ht=82(257) (△ Mystic Elevated Tank, 1932)		41 21	71 58	"	40.965	"	1932	X			358
TANK		Water, steel, ht=155(162) (○ Tank, 1954)		41 20	71 57	"	51.23	Air Photo	1954	X			358
TANK (HIGHER OF TWO)		Water, steel, ht=112(129) (△ 1954)		41 20	71 53	"	54.23	"	"	X			1211
CLOCK TOWER		White, flat top ht=83(94) (○ Clock Tower, 1954)		41 20	71 54	"	21.20	"	"	X			358
SPIRE		Church ht=125(135) (○ SPIRE, 1948)		41 21	71 57	"	52.57	"	1948	X			358
						"	1222	"					1211

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.

GEOGRAPHIC NAME LIST

Abigal Island
Andrews Island

*Baker Island
Barlett Reef
Bebbee Cove
Bebbee Pond
Bindloss Brook

Clam Point
Connecticut
Copps Brook
Cormorant Reef

*Dodges Island
Donahue Brook

Eccleston Brook
Edwards Point

Fishers Island Sound

Gates Islet
Goat Island

Latimer Point
Ledwoods Island
Little Narragansett Bay
Lords Point (town)
Lords Point
Lyddy Island

Mason Island
Mason Point
Morgan Point
Mouse Island
Murphy Point
Mystic
*Mystic Harbor
Mystic Reservoir
Mystic River

New York, New Haven & Hartford R.R.
Noank

Oxecosset Brook

Penny Island
Pequot Hill
Pequotsepos Brook
Pine Point

GEOGRAPHIC NAME LIST (cont)

Quanaduck Cove
*Quiambog Cove

*Ram Island
Ram Point
Randall Neck
Rhode Island
Rhodes Folly
Rock Island

Sandy Island
Sandy Point
Seal Rocks
Silvias Pond
*Sixpenny Island
Spence Point
Stonington
Stonington Harbor
Stonington Point
Stony Brook

The Island
Tumble Down Dick
Twin Brothers

Wamphassuck Neck
Wamphassuck Point
Wequetequock
*Wequetequock Cove
*Wequetequock River
West Cove
West Mystic
White Rock
Wilcox Cove
Williams Beach
Willow Point

* B.G.N. Decision


GEOGRAPHIC NAMES SECTION
20 SEPTEMBER 1960

REVIEW REPORT T-11446
SHORELINE
September 21, 1960

62. Comparison With Registered Topographic Surveys

65	1:10,000	1838
88	1:10,000	1839-55
1734	1:10,000	1882-83
9084	1:10,000	1948

All of the above surveys are to be superceded by this new survey.

63. Comparison With Maps of Other Agencies

U.S.G.S. Mystic, Conn. - N. Y.-R. I. 1:31,680
Edition of 1944 reprinted 1951.

64. Comparison With Contemporary Hydrographic Surveys

None

65. Comparison With Nautical Charts

358 1:20,000 11th Edition, December 9, 1942 7/18/60

Careful attention should be paid by the chart compiler to docks and piers as shown on the manuscript. These features were inspected after hurricane damage and many were completely washed away. It is probable that many now shown "in ruins" will be rebuilt. New photography scheduled for 1960 after final review should be searched for revision purposes.

The photographs were office inspected for all offshore rocks shown on the chart during the time of final review. Any rocks appearing on the chart and not the new survey were neither field inspected nor could be found on nine lens photos taken at 0.1 MLW.

Any features, including rocks, considered as a danger to navigation that appear on the chart and not on this new survey are listed below.

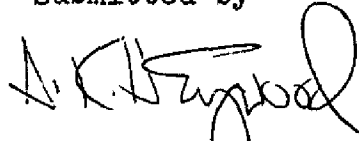
1. Rocks Lat. 41°20' Long. 71°56'

Not any of this group of rocks are visible on nine lens 43830-31.

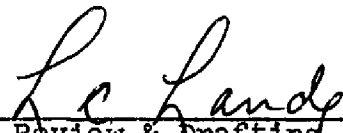
66. Adequacy of Results and Future Surveys

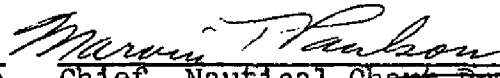
This survey compl^{ies} with instructions and meets National Standards of Map Accuracy.

Submitted by



A. K. Heywood

APPROVED:


Chief, Review & Drafting Section
Photogrammetry Division


Chief, ~~Nautical Chart Branch~~
Charts Division


Chief, Photogrammetry Division


Chief, Coastal Surveys Division

NAUTICAL CHARTS BRANCH

SURVEY NO. 11446

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
3/27/62	358	J.P.W	Before After Verification and Review <i>Partially applied</i>
2-23-73	358	DL Padilone	Before After Verification and Review FULLY APPLIED SUPERCEDED BY BP 61280 RS-714
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.