

11448

Diag. Cht. No. 1212-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-142 Office No. T-11448

LOCALITY

State Connecticut

General locality Long Island Sound

Locality Point O' Woods to Guardhouse

Point

1954

CHIEF OF PARTY

L. F. Woodcock, Chief of Party

J. E. ~~Tampa~~ ^{Waugh}, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE April 1962

USCOMM-DC 5087

11448

DESCRIPTIVE REPORT - DATA RECORD

T - 11448

Project No. (II): **Ph-142**

Quadrangle Name (IV):

Field Office (II): **Groton, Conn.**

Chief of Party: **L. F. Woodcock**

Photogrammetric Office (III): **Tampa, Fla.**

Officer-in-Charge: **J. B. Waugh**

Instructions dated (II) (III): **8 June 1954 (Field)**

Copy filed in Division of

Supplements 1, 2 & 3 dtd 6, 13 & 18 Aug. 1954 (Field)

Photogrammetry (IV)

Instructions; 15 Sept. 1955 (Office)

Method of Compilation (III): **Kelsh Plotter**

Manuscript Scale (III): **1:10,000**

Stereoscopic Plotting Instrument Scale (III): **1:4,000**

Scale Factor (III): **Pantographed to 1:10,000**

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): **MLW**

~~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): **SAYBROOK 2, 1948**

Lat.: **41° 17' 10.976" (338.6 m.)** Long.: **72° 21' 05.289" (123.1 m.)**

Adjusted
~~UNADJUSTED~~

Plane Coordinates (IV):

State:

Zone:

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

SHORELINE

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

DATA RECORD

Field Inspection by (II):	L. F. Beugnet	Date:	Sept. 1954
Planetable contouring by (II):	Inapplicable	Date:	
Completion Surveys by (II):	Inapplicable	Date:	
Mean High Water Location (III) (State date and method of location):	SEPT. 1954 Air Photo Compilation		
Projection and Grids ruled by (IV):	(W.O.)	Date:	
Projection and Grids checked by (IV):	(W.O.)	Date:	
Control plotted by (III):	Washington Office	Date:	
Control checked by (III):	M. M. Slavney E. T. Ogilby	Date:	Nov. 1956
Radial Plotter Stereoscopic Control extension by (III):	Washington Office	Date:	
	Planimetry	Date:	Dec. 1956
Stereoscopic Instrument compilation (III):	E. T. Ogilby	Date:	
	Contours	Date:	
Manuscript delineated by (III):	E. T. Ogilby	Date:	Sept. 1957
Photogrammetric Office Review by (III):	M. M. Slavney	Date:	Nov. 1957
Elevations on Manuscript checked by (II) (III):	Inapplicable	Date:	

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): **Wild and C&GS Nine-lens**

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide	Sub. Sta.
54 W 747	22 April 1954	1519	1:20,000	2.1	SAYBROOK JETTY
54 W 748	"	1520	"	2.1	"
54 W 749	"	1521	"	2.0	"
54 W 750	"	1521	"	1.8	"
54 W 751	"	1522	"	1.6	"
54 W 752	"	1522	"	1.4	MILLSTONE PT.
54 W 821	"	1553	"	-	-
54 W 822	"	1553	"	-	-
54 W 823	"	1554	"	-	-
54 W 824	"	1554	"	1.6	-
54 W 825	"	1554	"	1.6	-
54 W 826	"	1555	"	1.6	-
43839, 43841, & 43842	30 April 1954	1237 - 1239	1:10,000	Low water	-

Tide (III)

Predicted

Reference Station: **NEW LONDON, CONN**
Subordinate Station: **MILLSTONE POINT**
Subordinate Station: **SAYBROOK JETTY**
LYME HIGHWAY BRIDGE

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): **8**
Shoreline (More than 200 meters to opposite shore) (III): **30**
~~Shoreline (Less than 200 meters to opposite shore) (III):~~
Control Leveling - Miles (II): **Inapplicable**
Number of Triangulation Stations searched for (II): **59**
Number of BMs searched for (II): **13**
Number of Recoverable Photo Stations established (III): **0**
Number of Temporary Photo Hydro Stations established (III): **0**

Remarks:

Ratio of Ranges	Mean Range	Spring Range
	2.6	3.1
	2.7	3.2
	3.5	4.2
	3.1	3.7

Date: **SEP 1960**

Date:

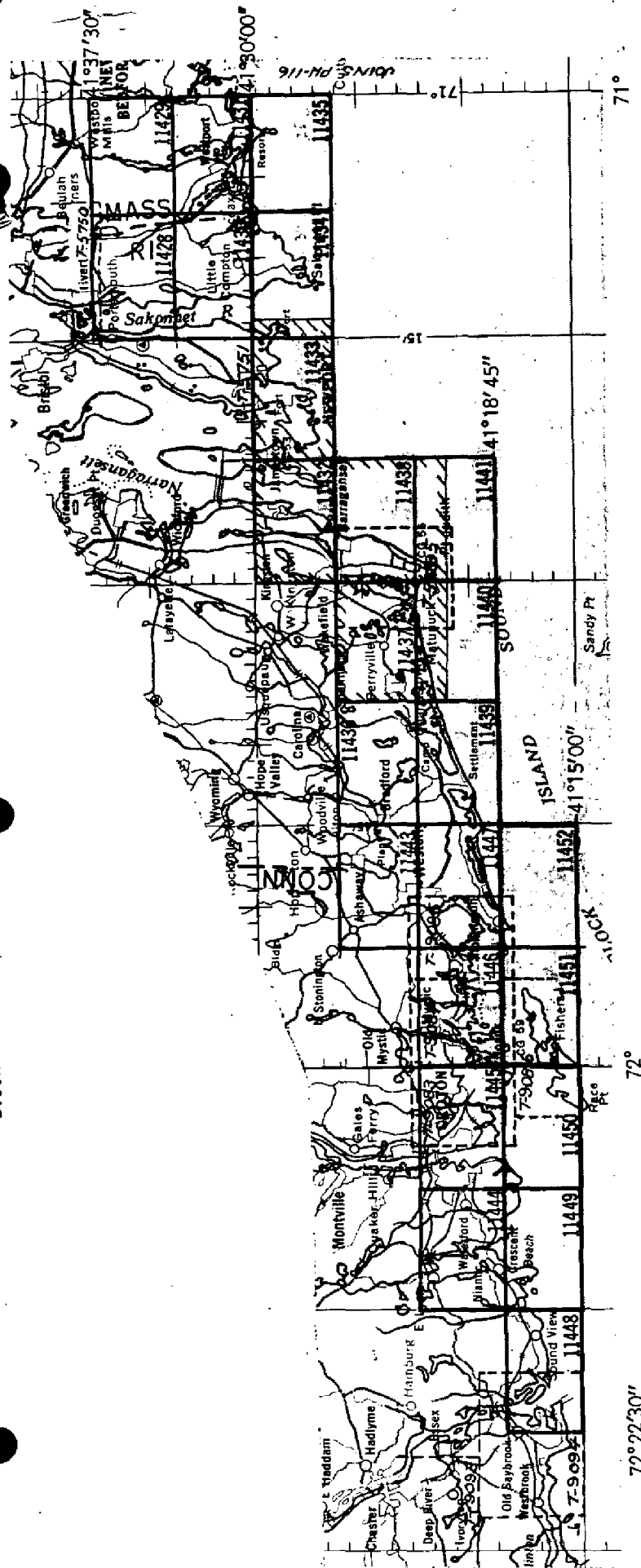
Date:

Date:

Recovered: **46** Identified: **37**
Recovered: **10** Identified: **2**

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	
11442	8	9	
11443	35	25	
11444	43	24	
11445			
TOTALS			450
			308

----- Indicates shoreline revision
 T----- Topographic revision

SUMMARY
PROJECT PM 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".

- 2 -

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

This ~~all~~ ^{was} sheets ~~were~~ scribed and transmitted to the Washington Office by *Tampa District Office*

Final Review was completed by April 1960.

Submitted by:

A. K. Heywood

2. AREAL FIELD INSPECTION

The area embraced by this sheet is located on the coast of Connecticut. The salient features are the Connecticut River, parts of the towns of Saybrook, Old Lyme and Saybrook Point.

The land area is hilly with heavy cover of woodland of soft and hard wood trees. The area is adequately served by a system of hard surface roads and by the New York, New Haven and Hartford Railroad.

The photographs were of recent date and no difficulty was encountered in their interpretation. The field inspection is believed to be adequate and complete with no areas deliberately left for the field editor.

Field inspection notes were applied to 1:10,000 scale single lens ratio prints of photographs 54-W-747 through 54-W-752; 54-W-821 through 54-W-826; 54-W-834 and 1:10,000 scale 9-lens photograph 43841.

3. HORIZONTAL CONTROL

All Coast and Geodetic Survey triangulation stations within the area were searched for.

In addition two (2) third-order traverse stations of the Connecticut Geodetic Survey were recovered and identified.

The stations reported as lost are as follows: DIETCH'S DOCK HO. FLAGSTAFF 1935; BRIDGE CONTROL HO. 1934; SWITCH TOWER CHY 1935; HATCHETT 1934; HAWK'S NEST BEACH WINDMILL 1935; HUDSON 1934; GRISWOLD PT. WINDMILL 1934; GRISWOLD 1934; WEATHER BUREAU FLAGTOWER 1934; and SAYBROOK 1934.

The following stations were reported destroyed but were identified for use in the radial plot: HAWK'S NEST BEACH WINDMILL 1934; and GRISWOLD PT. WINDMILL 1934. These stations were identified by the remains of the station sites.

4. VERTICAL CONTROL

All tidal bench marks were searched for and reported on Form 685. Of nine bench marks within the limits of the sheet, six were recovered and two identified for use by the hydrographic party.

No other vertical control was established.

5. CONTOURS AND DRAINAGE

Contours inapplicable.

The greater part of the drainage is perennial with some short intermittent streams flowing into the perennial streams. The drainage has been indicated on the photographs by symbols and is believed to be complete.

The limits of all swamps have been indicated on the photographs. Swamplands on the photographs have a very black appearance and are usually easily identified. However, there are some areas of ~~threes~~^{trees} that also have very black appearances. It is believed that a sufficient number of these have been labeled so that the compiler will have no difficulty in their interpretation.

6. WOODLAND COVER

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

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was inspected from a boat run close to shore and by walking along the shore in some places. The shoreline along the greater part of the Connecticut River is apparent. This has been indicated on the photographs with the use of symbols.

The mean high water line along the fast land area has been indicated on the photographs by symbols. The recent hurricanes seem to have had little or no effect on the mean high water line.

The low water line was inspected in the same manner as stated above and has been indicated on the photographs. The low water line is generally close to the mean high water line.

The foreshore varies from mud to sand and rock. It is believed that the foreshore has been adequately labeled. Areas of rock have been outlined and labeled foul.

All bluffs and cliffs have been labeled.

All docks, wharves, piers and landings have been labeled on the photographs.

There are no submarine cables across navigable waters in the limits of the sheet.

8. OFFSHORE FEATURES

In the mouth of the Connecticut River a white area on photographs 54-W-0748 and 54-W-0749 appears to be a sand spit. This could not be found during shoreline inspection and should be investigated by the hydrographic party.

The submerged rocks in the Connecticut River were not visible on the photograph due to the muddy appearance of the river.

All offshore rocks visible to the inspector were noted as such and their heights above water determined.

No other offshore feature for investigation by the hydrographic party was noted.

9. LANDMARKS AND AIDS

All landmarks for charts were reported on Form 567.

There are no aeronautical aids within the limits of the sheet.

The only fixed aids to navigation are those as listed on Form 567.

10. BOUNDARIES, MONUMENTS AND LINES

There are no state boundaries which effect the map.

11. OTHER CONTROL

No supplemental control was established.

12. OTHER INTERIOR FEATURES

All roads within the area have been classified in accordance with reference 5441 of the Topographic Manual.

All buildings to be mapped have been classified in accordance with project instructions. Class 1 buildings have either been circled or indicated with a leader with the note Cl.-1 in red ink. Class 2 buildings have been indicated by the numeral 2 placed on the image of the building.

All bridges over navigable waters were measured and the data placed on the photographs.

There are no cables over navigable waters within the limits of the sheet.

There are no landing fields or airports within the area.

13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, Project Ph-142."

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Special Report, Geographic Names, Project Ph-142, to be forwarded to Washington Office at a later date.

Letter of Transmittal No. Ph-142-3, Form 567, Fixed 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-142-23, Data, Map T-11448, 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. 11448 PROJECT NO. Ph 142

SCALE OF MAP 1:10000

SCALE FACTOR 1.26

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR λ -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)
No 32 (USE) 1934	856 27.5 14-18	NA 1927	41 17	44.856	1383.8	(467.2)	1851.0	1383.8	(467.2)		
SS No 32 (USE), 1934	856 27.5 14-18	"	72 20	31.982	744.3	(651.7)	1396.0	744.3	(651.7)		P
Willow, 1934	857 27.5 14-18	"	41 17		1397.3	(253.7)	1851.0	1397.3	(253.7)		P
		"	72 20		743.4	(652.6)	1396.0	743.4	(652.6)		P
Bowen's Chimney, 1934	857 27.5 14-18	"	41 17	03.300	101.8	(1749.2)	1851.0	101.8	(1749.2)	Pricked	Direct
		"	72 16	17.817	444.6	(981.7)	1396.3	444.6	(981.7)		P
Bowen's Chimney, 1934	857 27.5 14-18	"	41 20	33.497	1033.4	(811.6)	1851.0	1033.4	(811.6)	Pricked	Direct
		"	72 20	53.513	1244.2	(150.8)	1395.0	1244.2	(150.8)	Pricked	Direct
Bowen's Chimney, 1934	857 27.5 14-18	"	41 19	15.420	475.7	(1375.3)	1851.0	475.7	(1375.3)	Pricked	Direct
		"	72 16	23.854	554.8	(844.7)	1395.5	554.8	(844.7)	Pricked	Direct
Bulkley's Chimney, 1934	857 27.5 14-18	"	41 20	25.014	771.7	(1079.3)	1851.0	771.7	(1079.3)	Pricked	Direct
		"	72 20	18.793	436.7	(958.1)	1395.0	436.7	(958.1)	Pricked	Direct
Calves Island Light, 1856	857 27.5 14-18	"	41 19	51.236	1580.6	(270.4)	1851.0	1580.6	(270.4)	Pricked	Direct
		"	72 20	01.608	374.4	(1354.8)	1395.2	374.4	(1354.8)	Pricked	Direct
Caranagh's n.w. corner, 1934	832.8 27.5 14-18	"	41 15	47.559	1468.1	(382.9)	1851.0	1468.1	(382.9)	West of sheet	
		"	72 23	04.19	972.5	(1299.6)	1396.7	972.5	(1299.6)	West of sheet	
Chadwick, 1934	8141 27.5 14-18	"	41 18	59.351	1831.0	(20.0)	1851.0	1831.0	(20.0)	North of sheet	
		"	72 20	33.112	770.2	(625.4)	1395.6	770.2	(625.4)	North of sheet	
SS Chadwick, 1934	830 27.5 14-18	"	41 18		1845.5	(5.5)	1851.0	1845.5	(5.5)		P
		"	72 20		772.1	(623.5)	1395.6	772.1	(623.5)		P
Champlain, 1934	830 27.5 14-18	"	41 18	48.753	1504.0	(347.0)	1851.0	1504.0	(347.0)	North of sheet	
		"	72 18	57.853	1345.7	(50.0)	1395.7	1345.7	(50.0)	North of sheet	
SS Champlain, 1934	830 27.5 14-18	"	41 18		1510.1	(340.9)	1851.0	1510.1	(340.9)		P
		"	72 18		1340.7	(55.0)	1395.7	1340.7	(55.0)		P

1 FT. = 3048006 METER

COMPUTED BY: J. B. McDonald

DATE 7 NOV 1955

CHECKED BY:

DATE

M-2388-12

MAP T. 11448

PROJECT NO. Ph 142

SCALE OF MAP 1:10000

SCALE FACTOR

2096

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ϕ -COORDINATE LONGITUDE OR λ -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)	
Cornfield 1934	853 275 12-13	NA 1927	41 15 38.457	72 23 19.600	1186.4	(664.6)	1851.0	West of sheet		
Cornfield Point Windmill 1934	8328 275 12-13	"	41 15 56.889	72 23 10.361	956.3	(940.5)	1396.8	not plotted		
Daniel's Chimney, 1934	8164 277 1-12	"	41 19 21.046	72 21 07.638	1755.0	(96.0)	1851.0	West of sheet		
Davidson's Gables, 1935	8104 277 1-12	"	41 20 32.56	72 19 19.20	241.2	(115.4)	1396.6	not plotted		
De Wolf's Chimney, 1934	8329 275 1-15	"	41 17 52.924	72 19 28.350	649.3	(1221.7)	1851.0	North of sheet		
Fly's Windmill, 1934	861 275 1-18	"	41 17 06.279	72 18 21.686	177.6	(1217.4)	1395.5	not plotted		
Ferry Hill, 1934	830 275 1-18	"	41 18 57.754	72 21 57.365	1004.5	(846.5)	1851.0	North of sheet		
Ferry Point, 1934	841 277 1-12	"	41 19 19.559	72 21 05.735	446.4	(949.1)	1395.5	not plotted		
SS Ferry Point, 1934	841 277 1-12	"	41 19 59	72 21 59	1632.7	(218.3)	1851.0	Pricked Direct		P
Gardner's Chimney, 1934	8164 275 1-12	"	41 19 34.867	72 20 24.336	659.6	(736.3)	1395.9	Pricked Direct		P
Griswold Point Windmill 1934	861 275 1-18	"	41 16 53.794	72 18 46.424	193.7	(1657.3)	1851.0	North of sheet		
Guard house Point, 1934	860 275 1-17	"	41 16 06.498	72 22 23.488	504.7	(891.6)	1396.3	Pricked Direct		P

1 FT. = 3048006 METER

COMPUTED BY: J. B. Mc Donald

DATE 7 Nov 1955

CHECKED BY:

DATE

M. 2388-12

12

MAP T. 1144 8

PROJECT NO. Ph-142

SCALE OF MAP 1:10000

SCALE FACTOR 3.26

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)	FORWARD	(BACK)
Hawk's Nest Beach Windmill, 1934	P 61 275/16	NA 1927	41 16	56.01	1727.9	(123.1)	✓	1851.0	✓	Pricked	Direct
Hearn 2, 1951	P 10 275/18	"	72 17	05.50	128.0	(126.8)	✓	1396.3	✓	✓	✓
SS Hearn 2, 1951	P 10 275/18	"	41 15	✓	1450.6	(400.4)	✓	1851.0	✓	✓	✓
SS Hearn 2, 1951	P 10 275/18	"	72 23	03.81	88.7	(130.8)	✓	1396.7	✓	✓	✓
SS Hearn 2, 1951	P 10 275/18	"	41 15	✓	1490.0	(371.0)	✓	1851.0	✓	✓	✓
SS Hearn 2, 1951	P 10 275/18	"	72 23	✓	107.0	(12.89)	✓	1396.7	✓	✓	✓
Hinnrichs, 1934	P 107 275/32	"	41 20	32.05	988.4	(862.6)	✓	1851.0	✓	✓	✓
SS Hinnrichs, 1934	P 107 275/32	"	72 23	18.91	439.8	(954.8)	✓	1394.6	✓	✓	✓
SS Hinnrichs, 1934	P 107 275/32	"	41 20	✓	970.2	✓	✓	1851.0	✓	✓	✓
SS Hinnrichs, 1934	P 107 275/32	"	72 23	✓	433.5	✓	✓	1394.6	✓	✓	✓
Holmn, 1934	P 57 275/1	"	41 17	24.66	768.0	(1090.0)	✓	1851.0	✓	✓	✓
SS Holmn, 1934	P 57 275/1	"	72 15	07.12	165.7	(1230.4)	✓	1396.1	✓	✓	✓
SS Holmn, 1934	P 57 275/1	"	41 17	✓	774.2	(1076.8)	✓	1851.0	✓	✓	✓
SS Holmn, 1934	P 57 275/1	"	72 15	✓	174.4	(12.21)	✓	1396.1	✓	✓	✓
Hubbard, 1934	P 107 275/12	"	41 20	35.45	1093.7	(757.3)	✓	1851.0	✓	✓	✓
SS Hubbard, 1934, R.M. No. 1.	P 107 275/12	"	72 20	10.17	236.6	(115.8)	✓	1395.0	✓	✓	✓
SS Hubbard, 1934	P 107 275/12	"	41 20	✓	1090.7	✓	✓	1851.0	✓	✓	✓
SS Hubbard, 1934	P 107 275/12	"	72 20	✓	236.7	✓	✓	1395.0	✓	✓	✓
Krupp, 1934	P 30 275/14-18	"	41 16	57.04	1759.7	(913)	✓	1851.0	✓	✓	✓
Lomborg's Chimney, 1934	P 328 275/13	"	72 18	01.38	32.2	(1316.4)	✓	1396.3	✓	✓	✓
Lyme, 1934	P 328 275/13	"	41 18	50.60	1561.1	(2.89)	✓	1851.0	✓	✓	✓
Lyme, 1934	P 328 275/13	"	72 22	48.78	1134.7	(1260.9)	✓	1395.6	✓	✓	✓
Lyme, 1934	P 328 275/13	"	41 17	28.42	877.0	(974.0)	✓	1851.0	✓	✓	✓
Lyme, 1934	P 328 275/13	"	72 16	23.23	540.6	(1855.5)	✓	1396.1	✓	✓	✓

MAP T. 1144 8 PROJECT NO. Ph 142 SCALE OF MAP 1:10000 SCALE FACTOR 4 of 6

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)
McLeod's Chimney, 1934	P 229 275-15	NA 1927	41 18	11.270	347.7	(1503.3)	1851.0	V Pricked Direct		V	
			72 19	08.756	203.7	(1192.1)	1395.8	V		P	
Old Lyme Congregational Church Spire, 1934	P 600 275-18	"	41 18	45.936	1417.1	(433.9)	1851.0	V Pricked Direct		V	
			72 19	56.206	1307.6	(88.1)	1395.7	V		P	
Old Lyme Inn flagstaff, 1934	P 163 275-18	"	41 18	47.172	1455.3	(395.7)	1851.0	North of sheet			
			72 20	05.566	129.5	(1266.2)	1395.7	not plotted			
Old Lyme Inn, elevated tank, 1934	P 163 275-18	"	41 18	45.861	1474.8	(436.2)	1851.0	North of sheet			
			72 20	04.971	115.6	(1280.1)	1395.7	not plotted			
Old Lyme, Shore tank (el) 1934	P 329 275-16	"	41 17	28.507	879.4	(971.6)	1851.0	V Pricked Direct		V	
			72 16	22.613	526.2	(869.9)	1396.1	V		P	
Point Kowski's tower, 1934	P 600 275-18	"	41 18	25.347	781.9	(1069.1)	1851.0	V Pricked Direct		V	
			72 22	50.943	1185.2	(110.6)	1395.8	V			
Point o' Woods elevated tank, 1934	P 601 275-1	"	41 17	48.748	1503.8	(347.2)	1851.0	V Pricked Direct		P	
			72 15	20.240	471.0	(925.0)	1396.0	V			
Power House Powerhouse Stack, 1934	P 163 275-18	"	41 18	46.222	1425.9	(425.1)	1851.0	V North of sheet			
			72 21	13.785	320.6	(1075.1)	1395.7	V Pricked Direct		P	
Saybrook 2, 1948	P 56 275-18	"	41 17	10.976	338.6	(1512.4)	1851.0	V		V	
			72 21	05.289	123.1	(1273.1)	1396.2	V			
SS Saybrook 2, 1948		"	41 17		283.8	(1567.2)	1851.0	V		V	
			72 21		134.5	(1261.7)	1395.2	V			
Saybrook Beacon, 1934	P 56 275-18	"	41 16	07.017	216.5	(1634.5)	1851.0	V Pricked Direct		P	
			72 20	18.838	438.5	(958.1)	1396.6	V		V	
Saybrook Breakwater Lighthouse, 1886	P 85 275-18	"	41 15	47.185	1455.6	(393.4)	1851.0	V Pricked Direct		P	
			72 20	35.611	829.0	(567.7)	1396.7	V			

MAP T. 11448 PROJECT NO. Ph 142 SCALE OF MAP 1:10000 SCALE FACTOR 576

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR N-COORDINATE LONGITUDE OR E-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)
Saybrook Congregational Church, Belfry 1934	P 328 275/13	NA 1927	41 17	11.712	361.3	(1489.7)	✓	1851.0	✓	Pricked	Direct
Saybrook Lighthouse, 1861	P 56 275/14-18	"	72 22	32.433	754.7	(641.5)	✓	1396.2	✓		
Scheid's Chimney, 1934	P 164 275/12	"	41 16	16.894	521.2	(1329.8)	✓	1851.0	✓	Pricked	Direct
Soundview, Old Windmill 1934.	P 61 275/16	"	72 20	37.013	861.6	(534.9)	✓	1396.5	✓		
Soundview Windmill, 1934	P 61 275/16	"	41 19	31.202	962.6	(888.1)	✓	1851.0	✓	Pricked	Direct
Station 374 (CGS), 1937	Photostat 275/16	"	72 22	06.909	160.7	(1234.7)	✓	395.4	✓	not plotted	North of sheet
Station 375 (CGS) 1937	—	—	41 17	15.177	468.2	(1382.8)	✓	1851.0	✓	✓	✓
Station 367 (CGS), 1937	Photostat	"	72 16	29.581	688.4	(707.8)	✓	1396.2	✓	✓	✓
SS Station 367, (CGS), 1937	"	"	41 17	11.70	360.9	(1490.1)	✓	1851.0	✓	Pricked	Direct
Trewooddy's Chimney, 1934	P 329 275/14	"	72 16	40.507	942.5	(1453.7)	✓	1396.2	✓		
SS Station 374 (CGS) 1937	"	"	X 186	834.54	1835	(2165)	✓	5000	✓	not plotted	North of sheet
Ryan's Gable, 1937	P 163 275/14	"	X 734	548.00	4548	(452)	✓	5000	✓	✓	✓
Station 367 (CGS), 1937	Photostat	"	No position available.								
Station 367 (CGS), 1937	Photostat	"	Y 172	316.40	2 316	(2684)	✓	5000	✓	✓	✓
SS Station 367, (CGS), 1937	"	"	X 734	762.91	4 763	(237)	✓	5000	✓	✓	✓
Trewooddy's Chimney, 1934	P 329 275/14	"	Y 172	603.97	2 604	(2396)	✓	5000	✓	✓	✓
SS Station 374 (CGS) 1937	"	"	X 734	913.89	4 914	(86)	✓	5000	✓	✓	✓
Ryan's Gable, 1937	P 163 275/14	"	41 17	20.31	626.5	(1224.5)	✓	1851.0	✓	Pricked	Direct
SS Station 374 (CGS) 1937	"	"	72 19	27.387	637.7	(1759.1)	✓	1396.2	✓	✓	✓
Ryan's Gable, 1937	P 163 275/14	"	X 187	008.10	2008	(2992)	✓	5000	✓	not plotted	North of sheet
Station 367 (CGS), 1937	Photostat	"	X 734	685.77	4 686	(314)	✓	5000	✓	✓	✓
Station 367 (CGS), 1937	"	"	41 19	17.249	532.1	(1318.7)	✓	1851.0	✓	not plotted	North of sheet
Station 367 (CGS), 1937	"	"	72 21	05.782	134.5	(1261.0)	✓	1395.5	✓	✓	✓

1 FT. = 3048006 METER

COMPUTED BY: J.B. GLENNON

DATE 7 Nov 1955

CHECKED BY:

DATE

M-2388-12

15

MAP T- 11448

PROJECT NO. Ph 142

SCALE OF MAP.....1:10000

SCALE FACTOR:

626

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 FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
Whale Back 1934	8-14-1 2-1-12	N/A 1927	41 20 38.429 72 21 06.998	77.855 162.7	(645.5) (1232.3)	1851.0 13950	not plotted north of sheet		
SS Whaleback 1934			41 20 72 21	118.43 172.1		1857.0 13950	not plotted north of sheet		
White Sands Beach, windmill, 1939	861 2-1-18	"	41 17 03.497 72 18 10.824	107.9 251.9	(1743.1) (1137.2)	1851.0 1396.3			

NET = 3048006 METER

COMPUTED BY: J. B. McDonald

DATE 7 Nov 1955

CHECKED BY:

DATE:

W. 2388-12

COMPILATION REPORT T-11448PHOTOGRAMMETRIC PLOT REPORT

21 through 30

A stereoplanigraph bridge was run in the Washington Office to provide control for the models not controlled by identified triangulation and traverse stations. Identified control that could not be held is discussed in Item 32 CONTROL.

31. DELINEATION

The Kelsh Plotter was used for compilation.

Field inspection was satisfactory.

32. CONTROL

All the control was held with the exception of MC LEOD'S CHIMNEY, 1934. The station, as identified, is on the southeast part of the house, on the back side of the roof. The published description says "One in front between two pairs of dormers, center is the centerline of the front chimney"; this holds with the other control.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was delineated according to field inspection and photographic interpretation.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate for delineation of shoreline features. The approximate low water and shallow areas were taken from the nine-lens low water photographs.

36. OFFSHORE DETAILS

The only offshore details were rocks and breakwaters identified on the field photographs.

37. LANDMARKS AND AIDS

All landmarks and nonfloating aids have been located by triangulation and were submitted on Form 567 to the Washington Office by the field party on 20 October 1954. (Copy bound in report)

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions are in agreement with T-11449 to the east. There are no contemporary surveys to the north, west or south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U. S. Geological Survey Quadrangle LYME, CONN., scale 1:31,680, edition of 1938. Only minor differences were noted.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with C&GS Nautical Chart No. 214, scale 1:20,000, 4th edition, corrected to July 19, 1954; and C&GS Nautical Chart No. 215, scale 1:20,000, 5th edition, corrected to June 27, 1955. Only minor differences were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.



E. T. Ogilby
Carto. Photo. Aid

APPROVED AND FORWARDED:

for *Arthur L. Wardwell,*
J. E. Naugh
Chief of Party

49. NOTES FOR THE HYDROGRAPHER

Pass points were dropped along the shore to facilitate the location of photo-hydro stations. The pass points and the identified horizontal control points have been transferred to all the office ratio prints.

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T. 11448

1. Projection and grids W.O. 2. Title M.M.S. 3. Manuscript numbers M.M.S. 4. Manuscript size M.M.S.

CONTROL STATIONS

Unclassified
Classification label

5. Horizontal control stations of third-order or higher accuracy W.W.D. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) M.M.S. 7. Photo hydro stations XX 8. Bench marks M.M.S. 9. Plotting of sextant fixes XX 10. Photogrammetric plot report XX 11. Detail points XX

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline M.M.S. 13. Low-water line XX 14. Rocks, shoals, etc. M.M.S. 15. Bridges M.M.S. 16. Aids to navigation M.M.S. 17. Landmarks M.M.S. 18. Other alongshore physical features M.M.S. 19. Other along-shore cultural features M.M.S.

PHYSICAL FEATURES

20. Water features M.M.S. 21. Natural ground cover M.M.S. 22. Planetable contours XX 23. Stereoscopic instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical features M.M.S.

CULTURAL FEATURES

27. Roads M.M.S. 28. Buildings M.M.S. 29. Railroads XX 30. Other cultural features M.M.S.

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

33. Geographic names M.M.S. 34. Junctions M.M.S. 35. Legibility of the manuscript M.M.S. 36. Discrepancy overlay XX 37. Descriptive Report M.M.S. 38. Field inspection photographs M.M.S. 39. Forms M.M.S.

40. M.M. Slavney
M.M. Slavney Reviewer

William A. Rasure
Supervisor, Review Section or Unit
Wm. A. Rasure

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:

TIDE COMPLETION

PROJECT NO. Ph. ~~6442~~ 14-3 T. 11448

Time and date of exposure Apr 1 22, 1954

Reference station

NEW LONDON C211N

Mean range

2.7 (M.P.)
3.5 (S.J.)

Date of field inspection 9-21-54

Subordinate station

Millstone Pt. & Seabrook Jetty

Ratio of ranges

	Time	
	h.	m.
High tide	5	02
Low tide	11	15
Duration of rise or fall	6	13

	Height		Height x Ratio of ranges
	feet		
High tide	2.2	10.5	2.7
Low tide	0.5	0.0	0.5
Range of tide			2.2

	Time	
	h.	m.
High tide at Ref. Sta.	4	32
Time difference	+	30
Corrected time at Subordinate station	5	02

	Time	
	h.	m.
Low tide at Ref. Sta.	10	45
Time difference	-	30
Corrected time at Subordinate station	11	15

	h.	m.	Ht. H. T. or L. T.	Tabular correction	Stage of tide above MLW	Ht. H. T. or L. T.	Tabular correction	Stage of tide above MLW	Ht. H. T. or L. T.	m.	Photo. No.
Time H. T. or L. T.	11	15	Ht. H. T. or L. T.								
Required time	10	15	Tabular correction								
Interval	1	00	Stage of tide above MLW								
Time H. T. or L. T.			Ht. H. T. or L. T.								
Required time			Tabular correction								
Interval			Stage of tide above MLW								
Time H. T. or L. T.	11	15	Ht. H. T. or L. T.								
Required time	9	00	Tabular correction								
Interval	2	15	Stage of tide above MLW								
Time H. T. or L. T.	11	15	Ht. H. T. or L. T.								
Required time	9	45	Tabular correction								
Interval	1	30	Stage of tide above MLW								
Time H. T. or L. T.			Ht. H. T. or L. T.								
Required time			Tabular correction								
Interval			Stage of tide above MLW								
Time H. T. or L. T.			Ht. H. T. or L. T.								
Required time			Tabular correction								
Interval			Stage of tide above MLW								

Computed by E.T.O.

Checked by

92617-12

TIDE COMPUTATION

PROJECT NO. Ph. ~~142~~ T. 11448

Time and date of exposure April 23 1934

Reference station NEW LONDON CONN

Date of field inspection Sept. 1954

Subordinate station Millstone Pt. & Saybrook Jetty

	Time		Height feet	Height x Ratio of ranges	Corrected time at Subordinate station	Time		Corrected time at Subordinate station	Time	
	h.	m.				h.	m.		h.	m.
High tide	12	23	2.0 + 0.6	2.5	High tide at Ref. Sta.	11	53	Low tide at Ref. Sta.	18	19
Low tide	18	49	0.6 0.0	0.6	Time difference	+ 312		Time difference	+ 30	
Duration of rise or fall	6	26	Range of tide	1.9	Corrected time at Subordinate station	12	23	Corrected time at Subordinate station	18	49

Mean range 2.7 (M.P.)

Ratio of ranges 3.5 (S.J.)

	h.	m.		feet		feet		Photo. No.
Time H. T. or L. T.	12	23	Ht. H. T. or L. T.	2.5	Feature bares		747	4400
Required time	15	20	Tabular correction	0.9	Stage of tide above MLW		752	
Interval	2	57	Stage of tide above MLW	1.6	Feature above MLW			
Time H. T. or L. T.	12	23	Ht. H. T. or L. T.	2.5	Feature bares		0821	4400
Required time	15	55	Tabular correction	1.0	Stage of tide above MLW		0826	
Interval	3	32	Stage of tide above MLW	1.5	Feature above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares			
Required time			Tabular correction		Stage of tide above MLW			
Interval			Stage of tide above MLW		Feature above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares			
Required time			Tabular correction		Stage of tide above MLW			
Interval			Stage of tide above MLW		Feature above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares			
Required time			Tabular correction		Stage of tide above MLW			
Interval			Stage of tide above MLW		Feature above MLW			

Computed by F.T.O.

Checked by

TIDE COMPUTATION

PROJECT NO. Ph. ~~5448~~ ¹⁴² T. 11448

Time and date of exposure 1520 APRIL 22, 1954 Reference station NEW LONDON, CONN.

Mean range 3.5

Date of field inspection Sept 20, 1954 Subordinate station SAVBROOK JETTY

Ratio of ranges

	Time		Height feet	Height x Ratio of ranges
	h.	m.		
High tide	16	45	2.8 + 0.4	3.7
Low tide	10	39	0.5 - 0.1	0.5
Duration of rise or fall	6	06		3.2

	Time	
	h.	m.
High tide at Ref. Sta.	15	45
Time difference	+1	00
Corrected time at Subordinate station	16	45

	Time	
	h.	m.
Low tide at Ref. Sta.	9	39
Time difference	+1	00
Corrected time at Subordinate station	10	39

	h.	m.		feet		feet	Photo. No.
Time H. T. or L. T.	16	45	Ht. H. T. or L. T.	3.7	Feature bares	5.3	747
Required time	14	45	Tabular correction	0.8	Stage of tide above MLW	2.9	8-49 c/c clearance
Interval	2	00	Stage of tide above MLW	3.9	Feature above MLW	8.2	H.C.I. 18
Time H. T. or L. T.	16	45	Ht. H. T. or L. T.	3.7	Feature bares	3.5	747
Required time	14	30	Tabular correction	0.9	Stage of tide above MLW	2.8	
Interval	2	15	Stage of tide above MLW	2.8	Feature above MLW	6.3	Rk (3)
Time H. T. or L. T.	16	45	Ht. H. T. or L. T.	3.7	Feature bares	4.5	747
Required time	14	10	Tabular correction	1.2	Stage of tide above MLW	2.5	
Interval	2	35	Stage of tide above MLW	2.5	Feature above MLW	7.0	Rk (3)
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		

Computed by E. T. O.

Checked by R. P. W.

TIDE COMPUTATION

PROJECT NO. Ph. ~~142~~ ¹⁴² T-11448

Time and date of exposure ¹⁵⁵⁴ April 22, 1954

Reference station

NEW LONDON, CONN.

Mean range

3.1

Date of field inspection ^{20 Sept.} Sept. 1948

Subordinate station

LYME HWY BRIDGE

Ratio of ranges

	Time		Height feet	Height x Ratio / of ranges	Time		Time
	h.	m.			h.	m.	
High tide	17	05	2.8 + 0.5	3.3	15	45	9 39
Low tide	10	59	0.5 + 0.5	0.5	+1	20	+1 20
Duration of rise or fall	6	06		2.8	17	05	10.59

	h.	m.			feet		feet	Photo. No.
Time H.T. or L. T.	10	59	Ht. H.T. or L. T.		0.5	Feature bares	21.0	0825
Required time	12	30	Tabular correction		0.5	Stage of tide above MLW	1.0	Vent. Brg. Cl.
Interval	1	31	Stage of tide above MLW		4.0	Feature above MLW	22.0	19 Fr MHW
Time H.T. or L. T.	10	59	Ht. H.T. or L. T.		0.5	Feature bares	13.8	0825
Required time	12	05	Tabular correction		0.2	Stage of tide above MLW	0.7	Vent. Brg. Cl.
Interval	1	06	Stage of tide above MLW		0.7	Feature above MLW	14.5	11 Fr MHW
Time H. T. or L. T.			Ht. H. T. or L. T.			Feature bares		
Required time			Tabular correction			Stage of tide above MLW		
Interval			Stage of tide above MLW			Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.			Feature bares		
Required time			Tabular correction			Stage of tide above MLW		
Interval			Stage of tide above MLW			Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.			Feature bares		
Required time			Tabular correction			Stage of tide above MLW		
Interval			Stage of tide above MLW			Feature above MLW		

Computed by E.T.O.

Checked by *[Signature]*

GEOGRAPHIC NAME LIST

Armstrong Brook

Back River

*Black Hall

*Black Hall River

Connecticut

Connecticut River

Duck River

Fenwick

Fourmile River

Great Island

Griswold Point

Guardhouse Point

Hatchett Point

Hawks Nest Beach

Knollwood

Lieutenant River

Long Island Sound

Lyme Station

Lynde Point

Mile Creek

New York, New Haven & Hartford R.R.

North Cove

Obed Heights Reservoir

Old Lyme Shores

Point O'Woods

Poverty Island

Poverty Point

*Ragged Rock Creek

Saybrook Jetties

Saybrook Point

Saybrook Point(village)

Smiths Neck

Sound View

South Cove

South Lyme

Swan Brook

Threemile River

White Sands Beach

* B.G.N. Decision

George M. Bace
GEOGRAPHIC NAMES SECTION

13 SEPTEMBER 1960

REVIEW REPORT T-11448
SHORELINE
September 19, 1960

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

81	1:10,000	1838
297	1:10,000	1850
1568	1:10,000	1883-85
9094	1:10,000	1948

Survey T-9094 completed in 1948 compares very well with this survey and differs in only minor instances. The remainder of the surveys are to be superseded by this new manuscript for nautical charting purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Old Lyme USGS 1:24,000 Revision 1958

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

None

65. COMPARISON WITH NAUTICAL CHARTS:

215 1:20,000 5th Ed. 5 May 1947 Revised
1/25/60

The following tabulation lists differences of significance between the new survey and the latest published chart:

1. Terra Mar Marina Lat. 41°16'15" Long. 72°21'00"

The Marina is apparently now in a state of disrepair. The extensive docking facilities for small craft appearing on the chart now exist only in part and the remainder is now in ruins.

2. The Three Small Islets just south of R.R. Bridge
Lat. $41^{\circ}18'15''$ Long. $72^{\circ}21'15''$

These three small islets are field inspected as marsh but are shown as fast land on the chart.

The rock groups in this vicinity are not clearly visible enough on Nine-lens photography to detail with good accuracy.

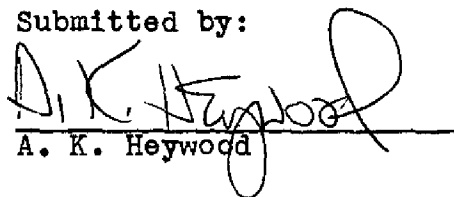
3. Rks. East of River Channel from Lat. $41^{\circ}16'30''$
to Lat. $41^{\circ}18'30''$ and at Long. $72^{\circ}20'30''$

Gibraltar, Dickersons, Sodom, Griswolds Rks.
and/or Piers are not visible on low water Nine-lens.
They were not visible at the time of inspection.
Mention of this fact was noted in the field report.

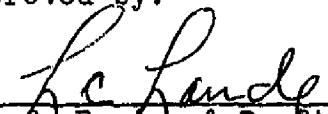
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

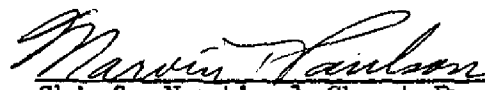
This manuscript complies with instructions and meets
National Standards of Map Accuracy.

Submitted by:


A. K. Heywood

Approved by:


Chief, Review & Drafting Sec.
Photogrammetry Division


Chief, Nautical ~~Chart~~ ~~Div.~~
Charts Division

 4/3/62
Chief, Photogrammetry Div.


Chief, Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11448

Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.