

11450

Diag. Cht. Nos. 1211-2 & 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-11450

LOCALITY

State Connecticut and New York

General locality Block Island Sound

Locality Goshen Pt. to Fishers Island

1954

CHIEF OF PARTY

L.F. Woodcock, Chief of Party
W.F. Deane, Balto. District Office
J.E. Waugh, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE April 1962

USCOMM-DC 5087

11450

DATA RECORD

T -11450

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

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

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

Photogrammetric Office (III): **Baltimore, Md.
Tampa, Florida**

Officer-in-Charge: **William F. Deane
J. E. Waugh**

Instructions dated (II) (III): **8 June 1954
Supplement 3, 18 August 1954
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): **27 Aug 1960**

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): **N.A. 1927**

Vertical Datum (III): **MHW**

~~XXXXXXXXXXXXXXXXXXXX~~

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): **NORTH HILL, 1934**

Lat.: **41° 16' 22.340" (689.2 m)** Long.: **72° 01' 26.971" (627.8 m)**

Adjusted

~~Unadjusted~~

Plane Coordinates (IV):

State: **Connecticut
New York**

Zone: **---**

Long Island

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.

DATA RECORD

Field Inspection by (II): I. Y. Fitzgerald
B. F. Lampton, Jr.

Date: Aug 1954
Aug. Sept. Oct 1954

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): 1954, date of photography

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

Date: 12/8/54

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

Date: 12/8/54

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

Date: 12/16/55

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

Date: 4/4/56

Radial Plot or Stereoscopic
Control extension by (III):

Date: ---

Planimetry J. C. Richter
Stereoscopic Instrument compilation (III):

Date: 10/3/57

~~contour~~

Date:

Manuscript delineated by (III): J. C. Cregan
(scribing)

Date: 8/22/58

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

Date: 3/18/58

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

Date: ---

Camera (kind or source) (III): C&GS type "W", 6" focal length.

PHOTOGRAPHS (III)					Stage of Tide
Number	Date	Time	Scale		
54-W-759 thru 764	4/22/54	1525	1:20,000	1.2' above MLW	
54-W-1268 thru 1271	"	1507	"	1.4' " "	
43833 thru 43835	4/30/54	1234	1:10,000	0.0' " "	

Tide (III)

Reference Station: New London State Pier
Subordinate Station: West Harbor, Fishers Island
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
-	2.6	5.1
1.0	2.5	3.0

Washington Office Review by (IV):

Date: MAY 2, 1960

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date: AUG 29, 1960

Land Area (Sq. Statute Miles) (III): 3

Shoreline (More than 200 meters to opposite shore) (III): 9

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 86 Recovered: 59 Identified: 18

Number of BMs searched for (II): 4 Recovered: 3 Identified: 1

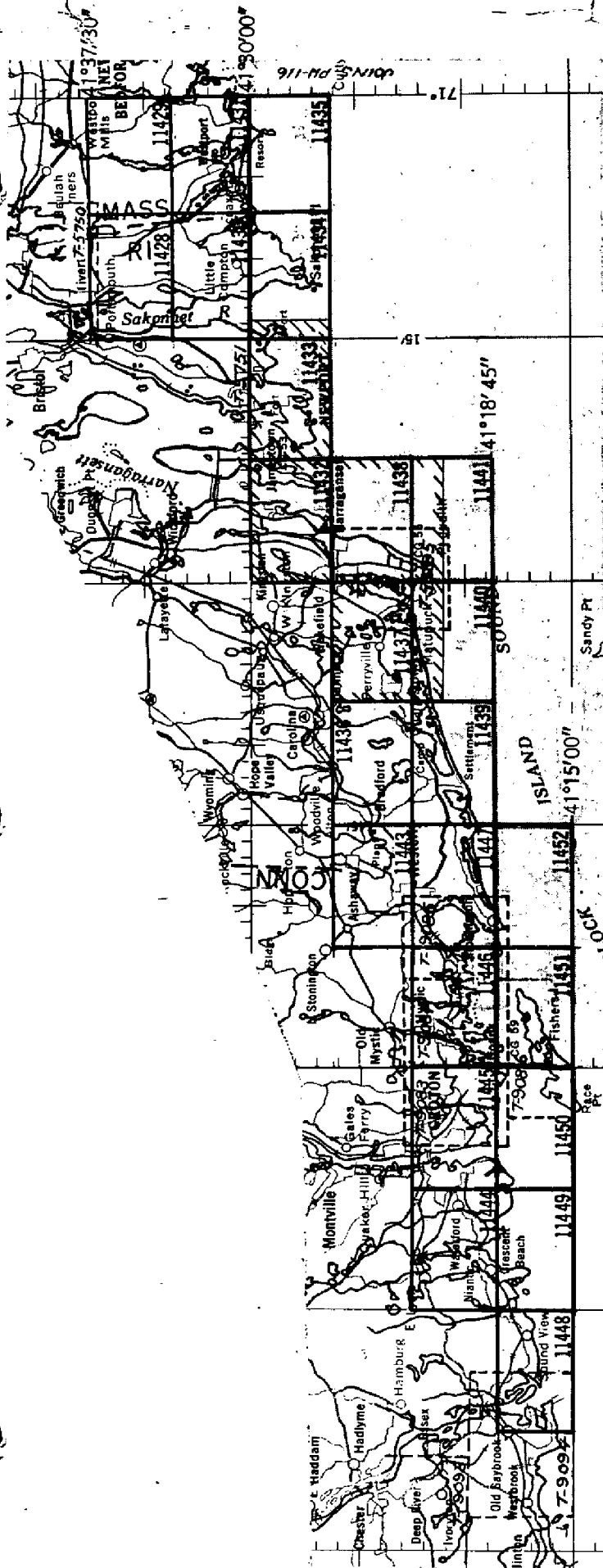
Number of Recoverable Photo Stations established (III): 2

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

Remarks:

SHORELINE MAPPING PROJECT PH-142

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



72° 22' 30"

72°

71°

OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	LINE, MI.	SHORELINE	AREA	SQ. MILES
11428	12			23
11429	10			26
11430	10			24
11431	35			22
11432	27			17
11433	26			7
11434	17			8
11435	4			1
11436	10			16
11437	22			25
11438	11			9
11439	25			13
11440	8			2
11441	3			1
11443	8			9
11444	35			25
11445	43			24
11446	40			15

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

----- Indicates shoreline revision
 [Symbol] 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".

- 2 -

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

This
~~All~~ sheets ~~were~~ *was* scribed and transmitted to the Washington Office by *Baltimore Office*

Final Review was completed by April 1960.

Submitted by:

A. K. Heywood

2. AREAL FIELD INSPECTION T 11450

The major features of the portion of Fishers Island within the sheet are the village of Fishers Island and Fort H. G. Wright.

Fort H. G. Wright is not in use and is presently staffed by five civilians as caretaker and guards. At time of field inspection, negotiations were under way to sell the airport to the town. The airport is currently used by private planes. Most of the buildings within the fort are secured, except for a few that are used by local interests.

Fishers Island village is chiefly a summer resort. It is part of the town of Southold, and there are no local government offices on Fishers Island.

The Navy has taken over a detached portion of Fort H. G. Wright and operates it as an experiment station.

The terrain of Fishers Island is rather rugged except for some large marshes along the south shore. Much of the southern portion of Fort H. G. Wright is reclaimed marsh.

The portion of the mainland in the northwest corner of the sheet includes part of urban New London, Ocean Beach Park, an amusement park and bathing beach, and Harkness Memorial State Park, an estate recently converted to a recreation area. The terrain is gently rolling and the land is partially under cultivation.

The portion of Groton Long Point within the sheet is a densely settled resort area. The sheet also includes several small islands in Fishers Island Sound.

Field work on Fishers Island was done prior to two hurricanes, on 31 August 1954 and 11 September 1954. The island has not been revisited, but it is believed that damage was slight because of the rugged nature of the island. The remainder of the sheet, including the islands in Fishers Island Sound was field inspected after the hurricanes. Damage was found to be slight and changes in the shoreline minor.

The quality of the photography is adequate. Field notes have been applied to the following photographs: Single-lens ratio prints 54-W-759 through 54-W-764, 54-W-1268 through 54-W-1271, and nine-lens photograph 43833.

3. HORIZONTAL CONTROL

All horizontal control was searched for. Of the recovered stations, selected stations were identified to provide a minimum spacing of one-half mile.

The following third-order triangulation station was established and identified: SEAFLOWER REEF LIGHT 1954.

The following stations have been reported as lost: HAWK'S NEST POINT 1934; POST 1943; EAST BASE OFFSET 1940; ENGINEERS EAST BASE 1940; B3 BUTTERFIELD EAST PEDESTAL 1940; ENGINEERS WEST BASE 1940; S/L NO 6 OP POS 1940; BC CLINTON 1940; DP CLINTON 1940; DP-B CLINTON 1940; DP HOPPOCK 1940; H-1 (MET.STA.) 1940; MLW 1940; DP AA WAR POSITION 1940; AA MG OP 2 1940; B2 CLINTON WEST PEDESTAL 1940; 155 MM GPF AIMING POINT 1940; BATTERY 111 1943; MUMFORD POINT 1934; BC BARLOW 1940; B3 BUTTERFIELD WEST PEDESTAL 1940; B3 BUTTERFIELD 1940; M2E 1940; M2W 1940; AA OP 1 MOBILE 1940; AA MG OP 1 1940.

At station MUMFORD POINT 1934, Reference Mark No. 2 was identified.

4. VERTICAL CONTROL

Three tidal bench marks were recovered and identified and one was reported as lost. No other vertical control required.

5. CONTOURS AND DRAINAGE

Contours inapplicable.

All drainage not obvious has been inked on the photographs. All marshes and swamps have been outlined. All ponds have been indicated.

6. WOODLAND COVER

Woodland cover has been classified according to instructions.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line has been indicated according to instructions. In areas inspected after the two hurricanes, no appreciable change in the high water line could be found. Areas eroded by surf during the storms have apparently quickly rebuilt to their normal positions.

The low water line has been indicated in areas where an appreciable difference between the high and low water lines exists, except along the south shore of Fishers Island. It was impractical to inspect the area at time of low water, and low water photographs were not available.

The character of the foreshore has been indicated on the photographs.

Several bluffs are landmark features on Fishers Island and South Dumpling Island. It is believed that sufficient information on bluffs can be obtained from stereoscopic examination and comparison with the U.S.G.S. "New London" Quadrangle.

Wharves, piers, and similar shoreline structures have been indicated on the photographs.

The shore ends of several submarine cables have been indicated on the photographs. The cable entering Fort H. G. Wright is apparently no longer in use, but no information confirming this could be obtained.

8. OFFSHORE FEATURES

Offshore rocks were visited during field inspection. Their elevations have been given in feet, followed by the time of measurement. The date of measurement is given elsewhere on the photograph with the notation "Eastern Standard Time" or "Eastern Daylight Saving Time" as the case may be.

No rocks are indicated that are not visible on at least one of the photographs, although an occasional rock has been transferred stereoscopically to the photo being used for field inspection.

Reference to charts of the area will show numerous sunken rocks and rocks awash which it was impractical to locate during field inspection and which should be investigated by the hydrographic party.

9. LANDMARKS AND AIDS

Two landmarks and four aids to navigation have been recommended for charting and reported on Form 567.

10. BOUNDARIES, MONUMENTS AND LINES

For information on state boundaries, see "Special Report, State Boundaries, Project Ph-142."

Several area boundaries are indicated on the field photographs. These are not officially confirmed, but are apparent boundaries as visible at the site.

11. OTHER CONTROL

Two recoverable topographic stations have been established at landmarks. Attention is called to the method of location of station FLAGPOLE 1954. This station was located by traverse from station MOUNT PROSPECT 3 1932. The azimuth station was RACE ROCK LIGHT HOUSE 1882, and as the position of the azimuth station was not available in the field office, the position could not be computed. Form 24A, List of Directions, is being furnished for the station. Methods used in locating the station were less than third-order.

12. OTHER INTERIOR FEATURES

Field inspection on Fishers Island was completed prior to the receipt of Supplement 3 to the project instructions. Buildings on Fishers Island have been indicated on the photographs by the following methods:

Class 1 buildings have been indicated by a red "x" on the image of the building.

Class 2 buildings have been indicated by the numeral 2 on the image of the building.

Buildings not to be shown and objects likely to be mistaken for buildings have been indicated by a green "x" on the image.

In a few instances where it was more convenient, the classification of buildings has been indicated by a numeral and leader.

The remainder of the land area within the sheet was field inspected after the receipt of Supplement 3 to the Project Instructions, and the field inspection of buildings has been done in accordance with Supplement 3.

One bridge within the sheet is listed in the "List of Bridges Over Navigable Waters of the U.S." Check measurements made during field inspection are as follows:

Alewife Cove, Conn. (New London Harbor), Peninsula Ave., New London, Conn., Type - Fixed, Number of Spans - 1, Horizontal Clearance - 69 feet, Vertical clearance - 5.4 feet at 1405 Eastern Daylight Saving Time, 15 Sept. 1954.

The entrance to Alewife Cove is currently very shallow and can be entered only by the smallest boats.

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 submitted to Washington Office at a later date.

Special Report, State Boundaries, Project Ph-142, to be submitted 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-142-25, Triangulation Data, Location of Aids to Navigation, to be forwarded to Washington Office at a later date.

Letter of Transmittal No. Ph-142-34, Data, Map T-11445, forwarded to Washington Office **OCT 27 1954**

Letter of Transmittal No. Ph-142-31, Data, Map T-11450, forwarded to Washington Office **OCT 27 1954**

Submitted
26 October 1954

B. F. Lampton, Jr.
B. F. Lampton, Jr.
Carto. Survey Aid

Approved & Forwarded

OCT 27 1954

Lorin F. Woodcock

Lorin F. Woodcock
Chief of Party

1 of 6 sheets

MAP T. 11450		PROJECT NO. PH-142		SCALE OF MAP 1:10000		SCALE FACTOR		
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		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)	
155 NM GPF Aiming Point 1940	L.I. MI 208 276/39	1927	41 15 19.567	603.6	(1247.4)	1851.0	30.849	
			72 00 35.365	823.3	(573.6)	1396.9	23.281	
AA OP-1 Fixed 1940	L.I. NY 210 276/38	"	41 15 20.599	635.4	(1215.6)	1851.0	30.849	
			72 01 25.962	604.4	(792.5)	1396.9	23.281	
B ¹ Clinton 1940	L.I. 213 276/37	"	41 15 03.316	102.3	(1748.7)	1851.0	30.849	
			72 02 08.557	199.2	(1197.8)	1397.0	23.283	Traverse
B ¹ Clinton 1940 East Ped. 1940	"	"	41 15 03.386	104.5	(1746.5)	1851.0	30.849	Not plotted
			72 02 08.274	192.6	(1204.4)	1397.0	23.283	Congested Traverse
B ¹ Clinton West Ped. 1940	"	"	41 15 03.280	101.2	(1749.8)	1851.0	30.849	Not plotted
			72 02 08.780	204.4	(1192.6)	1397.0	23.283	Congested Traverse
B ² Barlow 1940	L.I. 207 276/39	"	41 15 20.973	647.0	(1204.0)	1851.0	30.849	
			72 00 37.986	884.4	(512.5)	1396.9	23.281	
B ² Barlow East Ped. 1940	"	"	41 15 20.821	642.3	(1208.7)	1851.0	30.849	
			72 00 37.760	879.7	(517.8)	1396.9	23.281	
B ² Barlow West Ped. 1940	L.I. 208 276/39	"	41 15 20.933	645.8	(1205.2)	1851.0	30.849	Not plotted
			72 00 38.190	889.1	(507.8)	1396.9	23.281	Congested
B ² Butterfield East Ped. 1940	"	"	41 15 19.888	613.5	(1237.5)	1851.0	30.849	
			72 00 35.640	829.7	(567.2)	1396.9	23.281	
B ² Butterfield West Ped. 1940	"	"	41 15 19.890	613.6	(1237.4)	1851.0	30.849	Not plotted
			72 00 36.134	841.2	(555.7)	1396.9	23.281	Congested
B ² Clinton E. Ped. 1940	"	"	41 15 20.979	647.2	(1203.8)	1851.0	30.849	Not plotted
			72 00 34.061	793.0	(603.9)	1396.9	23.281	Congested
B ² Davis 1940	L.I. 209 276/39	"	41 15 18.952	584.7	(1266.3)	1851.0	30.849	
			72 00 32.739	762.2	(634.7)	1396.9	23.281	

1 FT. = 3048006 METER

COMPUTED BY: J. R. McDonald

DATE 15 December 1955

CHECKED BY: C. O. Delany

DATE 5 January 1956

M-2388 12

MAP T. 11450		PROJECT NO. Ph-142		SCALE OF MAP 1:10000		SCALE FACTOR		
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		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)	
Barlow, 1940	L.I. 206	1927	41 15 16.020	494.2	(1356.8)	1851.0	30.849	
			72 02 04.393	102.3	(1294.6)	1396.9	23.282	
SS Barlow 1940		"	41 15	512.8	(1338.2)	1851	30.849	
			72 02	81.4	(1315.5)	1396.9	23.282	
Battery 215 (N.Y.) 1943	L.I. 226/40	"	41 15 02.336	72.1	(1778.9)	1851.0	30.849	
			72 02 12.026	280.0	(1117.0)	1397.0	23.283	
BC 215 1943	L.I. 227 276/40	"	41 15 02.755	85.0	(1776.0)	1851.0	30.849	Not plotted
			72 02 11.920	277.5	(1119.4)	1396.9	23.283	Congested
BC Butterfield 1940	L.I. 211 276/37	"	41 15 14.979	462.1	(1388.9)	1851.0	30.849	
			72 02 02.591	60.3	(1336.6)	1396.9	23.282	
BC Dutton 1940	L.I. 217 276/37	"	41 15 15.657	483.0	(1368.0)	1851.0	30.849	
			72 01 51.768	1205.3	(191.6)	1396.9	23.282	
Camp Tabor Barn Cupola, (Fishers Is., N.Y.) 1934	L.I. 72 276/25-35-48	"	41 15 34.130	1052.9	(798.1)	1851.0	30.849	Pricked direct
			72 00 02.338	54.4	(1342.4)	1396.8	23.281	
Clinton 1940	L.I. 178 276/28-49	"	41 15 22.041	679.9	(1171.0)	1851.0	30.849	37.959
			72 01 19.996	465.5	(931.3)	1396.9	23.281	40.004
SS Clinton 1940		"	41 15	673.9	(1177.1)	1851.0	30.849	
			72 01	469.4	(927.4)	1396.9	23.281	
CRF ² Dutton 1940	L.I. 208 276/37-39-51	"	41 15 21.966	677.6	(1173.4)	1851.0	30.849	Not plotted
			72 00 35.734	831.9	(564.9)	1396.8	23.281	Congested
CRF Hoffman 1940	L.I. 212 276/37-40	"	41 15 20.162	622.0	(1229.0)	1851.0	30.849	
			72 02 07.213	167.9	(1228.9)	1396.8	23.281	
CRF North Hill 1943 (NY)	L.I. 226 Conn. 276	"	41 16 23.643	729.4	(1121.6)	1851.0	30.849	
			72 01 28.313	659.0	(737.5)	1396.5	23.275	

1 FT. = 3048006 METER

COMPUTED BY J. B. McDonald

DATE 15 December 1955

CHECKED BY C. O. DeMarr

DATE 5 January 1956

M. 2388.12

MAP T-11450 PROJECT NO. Ph-142 SCALE OF MAP 1:10,000 SCALE FACTOR 3 of 6 sheets

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)	
D.P. A Clinton, 1940	L.I. 210 276/38	1927	41 15 23.170 72 01 25.808	714.8 (1136.2)		1851.0	30.849		
D.P. Barlow 1940	L.I. 211 276/37	"	41 15 15.926 72 02 05.727	491.3 (1359.7)		1851.0	30.849	Not plotted	
D.P. Butterfield 1940	"	"	41 15 14.351 72 02 03.092	133.3 (1263.6)		1396.9	23.281	Congested	
D.P. Hoffman 1940	L.I. 212 276/37	"	41 15 21.159 72 02 07.667	442.7 (1408.3)		1851.0	30.849	Not plotted	
EPISCOPAL Ch. tower (Fisher's Is., N.I.) 1934	L.I. 41 276/25	"	41 15 38.347 72 00 53.652	72.0 (1324.9)		1396.9	23.282	Congested	
Fortwright 1934	L.I. 40 276/24-27-54	"	41 15 19.463 72 01 47.023	652.7 (1198.3)		1851.0	30.849		
Fortwright Flagpole, 1934	L.I. 178 276/21-27-54	"	41 15 19.455 72 01 47.015	178.5 (1218.4)		1396.9	23.281		
G5, 1943	L.I. 227--added " to from Geodesy	"	41 15 31.164 72 01 47.991	1183.0 (668.0)		1851.0	30.849	Pricked direct	
Goshen 1934	Conn. 59 276/10-29-31	"	41 17 56.907 72 06 46.216	1249.0 (147.8)		1396.8	23.279		
Groton 1934	Conn. 76 276/14-32 "	"	41 18 23.802 72 00 19.092	600.4 (1250.6)		1851.0	30.849	Pricked direct	
Harkness Flagpole 1934	Conn. 94 276/10-31 "	"	41 18 01.359 72 06 42.607	1094.7 (302.2)		1396.9	23.281	No check pos.	
Harkness Windmill 1934	"	"	41 18 10.232 72 06 47.287	600.2 (1250.8)		1851.0	30.849	Not plotted	
				1094.6 (302.3)		1396.9	23.281	Congested	
				961.4 (889.6)		1851.0	30.849		
				1117.2 (270.6)		1396.8	23.280		
				1755.5 (95.5)		1851.0	30.849	Pricked direct	
				1075.2 (320.7)		1395.9	23.265		
				734.3 (1116.7)		1851.0	30.849	Pricked direct	
				444.1 (951.7)		1395.8	23.263		
				41.9 (1809.1)		1851.0	30.849		
				991.3 (404.6)		1395.9	23.265		
				315.6 (1535.4)		1851.0	30.849		
				1100.1 (295.8)		1395.9	23.264		

1 FT. = 3048006 METER

COMPUTED BY: J. B. McDonald

DATE 16 December 1955

CHECKED BY: C. O. DeMart

DATE 5 January 1956

M. 2368-12

MAP T. 11450

PROJECT NO. Ph-142

SCALE OF MAP 1:10,000

SCALE FACTOR

4 of 6 sheets

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)
Hawks Nest Point 1934	L.I. 38 276/25-27-35-48	N.A. 1927	41 16 12.80	394.9	(1456.1)	1851.0				
Hay Harbor 1934	L.I. 38 276/24-35 "	"	72 00 36.47	848.9	(547.6)	1396.5				
Light 1934	L.I. 213 276/38 "	"	41 15 46.267	1427.3	(423.7)	1851.0			Pricked	
M ¹ E 1940	L.I. 209 276/38 "	"	72 01 46.711	1087.4	(309.3)	1396.7			direct	
Mount Prospect 3 1932	L.I. 4 276/48-0-35	"	41 14 59.264	1828.2	(22.8)	1851.0	30.849	Traverse	Pricked	
SS Mount Prospect 3 1932	L.I. 209 276/38 "	"	72 02 17.702	412.2	(984.8)	1397.0	23.283	station	direct	
New London Ledge Light House 1932	L.I. 11 276/11-27-29-31	"	41 15 21.536	664.4	(1186.6)	1851.0	30.849			
Mumford Point RM No. 2 1934	Conn. 79 & Form 152 276/13-14-32	"	72 01 16.174	376.5	(1020.4)	1396.9	23.281			
N. Dumping, Lighthouse 1874	L.I. 28 276/28-35-48	"	41 15 20.952	646.3	(1204.7)	1851.0				
North Hill 1934	L.I. 102 276/40-24-27	"	72 00 36.291	844.9	(552.0)	1396.9				
SS North Hill 1934	L.I. 209 276/40-31 "	"	41 15	650.3	(1200.7)	1851.0				
North Hill OP 1940	L.I. 209 276/40-31 "	"	72 00	827.6	(569.3)	1396.9				
			41 18 20.794	641.5	(1209.5)	1851.0			Pricked	
			72 04 40.516	942.5	(453.3)	1395.8			direct	
			41 18	1373.7	(477.3)	1851.0	30.850		Pricked	
			72 01	1155.0	(240.2)	1395.7	23.261		direct	
			41 17 15.932	491.5	(1359.5)	1851.0			Pricked	
			72 01 11.084	257.9	(1148.3)	1396.2			direct	
			41 16 22.340	689.2	(1161.8)	1851.0				
			72 01 26.971	627.8	(768.7)	1396.5				
			41 16	608.5	(1152.5)	1851.0				
			72 01	612.3	(784.2)	1396.5				
			41 16 22.789	703.0	(1178.0)	1851.0	30.849		Not plotted	
			72 01 27.424	638.3	(758.2)	1396.5	23.275		Contested	

1 FT. = 3048006 METER

COMPUTED BY J. B. McDonald

DATE 16 December 1955

CHECKED BY G. O. DeMarr

DATE 5 January 1956

M. 2388-12

MAP T-11450 PROJECT NO. Ph-142 SCALE OF MAP 1:10,000 SCALE FACTOR 5 of 6 sheets

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR μ -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)	
Ocean 1934	Conn. 59 276/11	1927	41 18 11.964	369.1	(1481.9)	1851.0			
SS Ocean 1934		"	72 05 59.293	1379.4	(16.4)	1395.8			
			41 18	371.0	(1480.0)	1851.0			
			72 06	13.4	(1382.4)	1395.8			
Pine Island (Conn.)	L.I. 134 276/30	"	41 18 43.830	1352.1	(498.9)	1851.0	30.849		
			72 03 38.804	902.6	(493.1)	1395.7	23.261		
Pine Island (Conn.)	See Recovery card	"	41 18	1340.0	(511.0)	1851.0		Pricked Direct	
RM 1 1943 (S-S)			72 03	904.3	(491.4)	1395.7			
Race Rock Lighthouse 1882	L.I. 102 276/28-35-40-49	"	41 14 36.152	1115.3	(735.7)	1851.0	30.849	Pricked Direct	
			72 02 51.414	1197.2	(200.0)	1397.2	23.286		
Reservoir Hill 1940	L.I. 178 276/28-40-49	"	41 15 31.216	963.0	(888.0)	1851.0	30.849		
			72 01 47.195	1098.7	(298.1)	1396.8	23.280		
Seaflower Reef Light 1954	Field Comp 276/40	"	41 17 45.25	1395.9	(455.1)	1851.0	30.849	Pricked Direct	
			72 02 01.46	34.0	(1362.0)	1396.0	23.266		
S/L No. 3 OP POS 1940	L.I. 209 276/20	"	41 15 17.074	526.7	(1324.3)	1851.0	30.849	Not Plotted	
			72 00 32.119	747.8	(649.1)	1396.9	23.281	Congested	
S/L No. 4 OP POS 1940	L.I. 209 276/39	"	41 15 18.117	558.9	(1292.1)	1851.0	30.849	Not Plotted	16
			72 00 31.910	742.9	(654.0)	1396.9	23.281	Congested	
S/L No. 5 OP POS 1940	L.I. 213 276/35-51	"	41 14 59.315	1829.8	(21.2)	1851.0	30.849	Not Plotted	
			72 02 17.713	412.4	(984.6)	1397.0	23.283	Off Sheet	
Black Ledge Rocks, Thames River Entrance 1947	Conn. 320 276/31	"	41 18 1948	601	(1250.0)	1851.0	30.849		
			72 04 18.83	438	(957.8)	1395.8	23.263		
Tower No. 8 1943	L.I. 227 276/39	"	41 15 23.160	714.5	(1136.5)	1851.0	30.849		
			72 00 36.037	839.0	(557.9)	1396.9	23.281		

1 FT. = 3048006 METER

COMPUTED BY: J. B. McDonald

DATE 16 December 1955

CHECKED BY: C. O. DeMarr

DATE 5 January 1956

M-2388-12

MAP T-77/50

PROJECT NO. Ph-112

SCALE OF MAP.

7,470,000

SCALE FACTOR

6 of 6 sheets

[illegible]

1 FT. = .3048006 METER

COMPUTED BY: J. B. McDonald

DATE.....15 December 1955

CHECKED BY: C. O. DeMarr

DATE 5 January 1956

M-2388-12

COMPILATION REPORT
Project Ph-142
T-11450

The photogrammetric plot report for the north edge of the survey is part of the descriptive report for survey T-11440.

Identified horizontal control on Fishers Island permitted the setting up of the individual models for compiling.

31. DELINEATION

The Kelsh Plotter was used for delineation on Vinylite projections.

The delineation was extended beyond the survey limits on the south edge to include Race Point and Race Rock.

The area of the northwest corner of the survey was delineated in the Tampa office and furnished on a worksheet.

32. CONTROL

Horizontal control was adequate. Vertical control is inapplicable.

33. SUPPLEMENTAL DATA

Final Name Standards dated 12/15/54 and 7/10/56.

34. CONTOURS AND DRAINAGE

Drainage is complete. Contours are inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

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

36. OFFSHORE DETAILS

Several features with geographic names could not be delineated. See paragraph 49.

Refer to paragraph 8 of the field report regarding charted rocks that could not be delineated.

37. LANDMARKS AND AIDS

Forms 567 were submitted for two landmarks and four aids to navigation. Race Rock Light is south of the limits of this survey.

38. CONTROL FOR FUTURE SURVEYS

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

No field data was furnished for station CHIMNEY, 1935 on Groton Long Point. A chimney at that position was cut in and agreed closely with the 1935 theodolite positions so the station was carried forward on this survey.

39. JUNCTIONS

Junctions have been made as follows:

To the north with T-11145

To the east with T-11151

To the West with T-11149

To the south is an all water area

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. BOUNDARIES

Datum corrections were applied to the geographic positions of two points on the Connecticut - New York State boundary given in appendix 3 of the boundary report.

42. BRIDGE CLEARANCE

The following measured clearances were furnished by the field party as compared with the listing in the bridge book:

	Horizontal	Vertical	
		MLW	MHW
ALEWIFE COVE, Conn.			
Fixed Hwy. Engrs.	70.5	8.1	5.6
Field	69	7.8	5.2

43 - 45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

USGS 7½ minute quad. New London, Conn.-N.Y., scale 1:31,680, edition of 1938, reprinted 1951.

AMS 7½ minute quad. New London, Conn.-N.Y., scale 1:25,000, edition of 1956.

Bureau Surveys T-9083 (1948) and T-9086 (1949), scale 1:10,000.

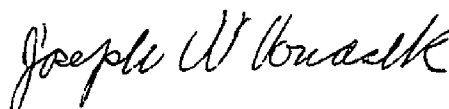
47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 359, scale 1:20,000, published July 1942, corrected to 4/2/54.

Items to be applied to nautical charts immediately: None.

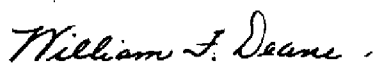
Items to be carried forward: None.

Respectfully submitted
19 March 1958



Joseph W. Vonasek
Cartographer (Photo.)

Approved and forwarded



William F. Deane
CDR C&GS
Baltimore District Officer

PHOTOGRAMMETRIC OFFICE REVIEW

T. 11450

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. Bonawit Henry P. Eichel
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 HYDROGRAPHER

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

There are several charted offshore rocks which could not be delineated from the photographs. In addition the following features could not be identified and have not been delineated:

BLACK LEDGE	RACE POINT LEDGE (Coast Pilot)
FRANK LEDGE	RAPID ROCK
GOSHEN LEDGE	SARAH LEDGE
HORSESHOE REEF	SEAFLOWER REEF
INTREPID ROCK	SOUTHWEST LEDGE
LITTLE GOSHEN REEF	VIXEN LEDGE
PINE ISLAND CHANNEL	

Only two submerged cable ends were identified by the field party (See para. 7, field report). Charted cable ends at North Hill and Groton Long Point should be verified. In addition, two new cable areas have been recently established on Fishers Island to North Dumpling and Race Rock. See Notice to Mariners No. 2, 1958, paragraph 163.

The following are the recoverable topographic stations in the area:

CHIMNEY, 1935
 FLAGPOLE, 1954
 MT. PROSPECT 3 AZ MK (1932) 1954

DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
NOV/06/07/08/09

STRIKE OUT ONE

15 October 1958

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

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

William F. Deana

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating*

Station: Ken

State: Maryland

Chief of party: C. V. H.

Date: 1917

Computed by: O. P. S.

Observer: C. V. H.

Instrument: No. 168

Checked by: W. F. R.

OBSERVED STATION	Observed direction	Eccentric reduction	Sea level reduction	Corrected direction with zero initial	Adjusted direction
	° ' "	' "	"	° ' "	' "
Chevy	0 00 00.00	- 7.31		0 00 00.00	
Tank west of Δ Dulce	29 03 37.0	-1 09.8		29 02 34.5	
Ken (center), 3.469 meters	176 42				
Forest Glen standpipe	313 24 53.0	+3 01.2		313 28 01.5	
Home	326 31 30.21	+ 31.93		326 32 09.45	
Bureau of Standards, wireless pole	352 17 20.8	+ 5.7		352 17 33.8	
Reno	357 28 48.63	- 1.16		357 28 54.78	
Reference mark, 16.32 m	358 31 20				

Ken eccentric
3.469m
Ken
To Home
149° 50'

This form, with the first three and fifth columns properly filled out and checked, must be furnished by field parties. To be acceptable it must contain every direction observed at the station.

It should be used for observations with both repeating and direction theodolites.

The directions at only one station should be placed on a page.

If a repeating theodolite is used, do not abstract the angles in tertiary triangulation. The local adjustment corrections (to close horizon only) are to be written in the Horizontal Angle Record, and the List of Directions is to be made from that record directly.

Choose as an initial for Form 24A some station involved in the local adjustment, and preferably one which has been used as an initial for a round of directions on objects not in the main scheme. Use but one initial at a station. Call the direction of the initial 0° 00' 00." 00, and by applying the corrected angles to this, fill in opposite each station its direction reckoned *clockwise* around the whole circumference regardless of the direction of graduation of the instrument. The clockwise reckoning is necessary for uniformity and to make the directions comparable with azimuths.

If a station has been occupied eccentrically, reduce to the center and enter in this form, in ink, the resulting corrections to the observed directions in the column provided for them. If an eccentric reduction is necessary, but not made in the field, leave the column blank. If the station was occupied centrally, and no eccentric reduction is required, put dashes in the column to show that no corrections are necessary.

Directions in the main scheme should be entered to hundredths of seconds in first-order triangulation; otherwise to tenths only. Points observed upon but once, direct and reverse, should be carried to tenths in first-order and second-order triangulation, and to even seconds only in third-order triangulation. In general, but two uncertain figures should be given.

It is recommended that the following simple plan of observing be used with a repeating instrument: Measure each single angle in the scheme at each station and the outside angle necessary to close the horizon. *Measure no sum angles.* Follow each measurement of every angle immediately by a measurement of its explement. Six repetitions are to constitute a measurement. The local adjustment will consist simply of the distribution of the error of closure of the horizon.

48. GEOGRAPHIC NAMES LIST

Alewife Cove

Block Island Sound

Connecticut

Cormorant Rock

Elizabeth Field

Fishers Island

Fishers Island (village)

Fishers Island Sound

*Flat Hammock

Goose Island

Goshen Cove

Goshen Point

Great Neck

Groton Long Point

Groton Long Point (town)

Groton Long Point Main Beach

Groton Long Point South Beach

Groton Long Point Yacht Club

Harkness State Park

Hawks Nest Point

Hay Harbor

Long Island Sound

Long Rock

Middle Rock

Mt. Prospect

Mumford Point

New York

North Dumpling

North Hill

Ocean Beach

Ocean Beach Park

Pine Island

Pine Island Channel


T-11450

Race Point
Race Rock
Ridgewood

Seaflower Reef
Shore Rock
Silver Eel Pond
South Dumpling

West Harbor
Wilderness Point

* B.G.N. Decisions


GEOGRAPHIC NAMES SECTION
5 MAY 1960

REVIEW REPORT T-11450
SHORELINE
2 May 1960

62. Comparison with Registered Topographic Surveys

57	1:10,000	1838
64	1:10,000	1838
65	1:10,000	1838
1508	1:10,000	1882
1537	1:10,000	1882-83
1734	1:10,000	1882-83
9083	1:10,000	1948
9086	1:10,000	1948

The 1948 surveys T-9083 and T-9086 cover that portion of this manuscript which includes the west part of Fishers Island and the southern tips of Pine Island, Mumford Point and Groton Long Point. These surveys were carefully compared with the new manuscript. Any detail shown on these surveys which could be verified on the present photography was delineated during final review.

This new manuscript now supercedes all previous surveys listed above for construction of new nautical charting.

63. Comparison with Maps of Other Agencies

USGS	New London, Conn., N. Y.	31,680	1938
AMS	New London, Conn., N. Y.	25,000	1956

64. Comparison with Contemporary Hydrographic Surveys

None.

65. Comparison with Nautical Charts

358	1:20,000	11 Edition	Dec. 9, 1942	Revised	8/25/58
359	1:20,000	16 Edition	July 6, 1942	Revised	5/25/59

There are many outlying offshore features shown on these charts that are not delineated on the manuscript, such as Vixen Ledge, Horseshoe Reef, Intrepid Rock and others.

Nine-lens photography was available for the photogrammetric location of these features, but could not be utilized due to its being about 2' above MLW.

65. Comparison with Nautical Charts Continued

The features to be located either bare or are submerged at MLW.

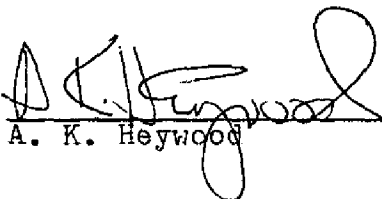
There are many more rocks awash on the chart than are shown on the manuscript. The field inspector was unable to inspect the area at time of low water and low water photographs were not available.

66. Adequacy of Results and Future Surveys

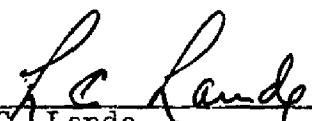
Except for Fishers Island, field work was accomplished after the two hurricanes of August and September 1954. Only slight damage was indlicted and changes in shoreline minor.


A photostat of Form 524 for Silver Eel Pond Light, 1948 was available, but no field data was furnished regarding its present existence. A correction to Coast Pilot, page 250, lines 8-11, indicates that the Light has been removed.

Submitted by:



A. K. Heywood

Approved by:


L. C. Lande
Chief, Review & Edit

 4/2/62
J. E. Swanson
Chief, Photogrammetry Division


Marvin Paulson
Chief, Nautical Chart Division


G. L. Mast
Chief, Coastal Surveys Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11450

Record of Application to Charts

[illegible]

M-216B-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.