

8926

Diagram No. 1211-2

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic
Field No. 742-10-1-66
Office No. H-8926

LOCALITY

State Connecticut
General Locality Fishers Island Sound
Locality Mumford Cove to Fishers Island

19 66-68

CHIEF OF PARTY
LT. J.D. Boon III

LIBRARY & ARCHIVES

DATE December 14, 1970

8926

HYDROGRAPHIC TITLE SHEET

H-8926

INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

FIELD NO.

742-10-1-66

State CONNECTICUT

General locality FISHERS ISLAND SOUND

Locality MUMFORD COVE to Fishers Is

Scale 1:10,000 Date of survey 9-06-66 to 7-31-68

Instructions dated Mar. 31, 1966 Project No. OPR-414

Vessel HYDROGRAPHIC FIELD PARTY 742

Chief of party LT. JOHN D. BOON III

Surveyed by WALTER H. PINER

Soundings taken by echo sounder, hand lead, pole

Graphic record scaled by PARTY PERSONNEL

Graphic record checked by PARTY PERSONNEL

Protracted by GERBER DIGITAL PLOTTER - PACIFIC MARINE CENTER

Soundings penciled by " " " - " " "

Soundings in ~~meters~~ feet at MLW MDDW

REMARKS:

HR

DESCRIPTIVE REPORT

TO ACCOMPANY

Hydrographic Survey H-8926 (742-10-1-66)

Project OPR-414

SCALE: 1:10,000

Hydrographic Field Party 742

CHIEF OF PARTY:

Archibald J. Patrick, LCDR
and
John D. Been III, LT

SURVEYED BY:

Walter H. Piner

* * * * *

A. PROJECT

Work on Project OPR-414 was executed in accordance with Instructions dated March 31, 1966 and Supplemental Instructions dated May 19, 1967 and May 14, 1968.

B. AREA SURVEYED

This survey is in the vicinity of Fishers Island Sound and covers the portion of the Sound between Lat. 41°14.30' to 41°21.00', Long. 71°57.98' to 72°03.80'.

This survey makes junction with contemporary survey H8908, (1962-1966) scale 1:10,000, on the East, and survey H-8996 scale 1:10,000 on the West and survey WAHI 20-1-61 on the South. (1968)
H-8709 (1961-62)

C. SOUNDING VESSELS

Launch 1177, Launch 183, Launch EX-1, Skiff 758 and Skiff 528 were used in this survey.

VESSEL

IDENTIFYING COLOR

Launch 183 (1967)	Violet
Launch 1177 (1966-67)	Blue
Launch EX-1 (1968)	Orange
Skiff 758 (1967-68)	Red
Skiff 528 - pole soundings (1967)	Green

D. SOUNDING EQUIPMENT

A Raytheon Fathometer, Type DE-723, Serial No. 263 and 927 was used on Launch 1177, Fathometer DE-723 No. 927 was used on Launch 183, Fathometer DE-723 No. 925, 806, and 535 were used on Skiff 758, Fathometer DE-723 (24 Volt) No. 1889 and 1885 were used on Launch EX-1. Corrections to be applied to echo soundings were

determined from daily bar checks and temperature-salinity data. An abstract of these corrections is tabulated in APPENDIX "B" of this report. ✓

No unusual difficulties were encountered with the sounding equipment. ✓

A sounding pole was used to obtain soundings on Skiff 528 in depths less than 3 feet. *Pos. 4600-462"* ✓

E. SMOOTH SHEET:

The smooth sheet will be plotted by Atlantic Marine Center, Norfolk, Virginia. ✓

F. CONTROL

Horizontal control was obtained by standard three point sextant fixes. APPENDIX "A" of this report contains a complete list of control used including the type and source of control. ✓

G. SHORELINE

RS-711 Shoreline detail was taken from manuscripts T-11450, T-11445, T-11446 and T-11451. There are no changes in the shoreline to be reported. *RS-721 RS-713 RS-722* ✓

H. CROSSLINES

Crosslines were run at approximately 8 to 10% of the regular system of sounding lines. Crossings were in good agreement. ✓

I. JUNCTIONS

Depths at the junctions with the surveys listed in Section "B" are in good agreement; depth curves can be adequately drawn at these junctions. ✓

J. COMPARISON WITH PRIOR SURVEYS

A comparison was made with prior survey Register No. 1527 dated 1882, scale 1:10,000 and prior survey Register No. 1577B dated 1883-1906 scale 1:10,000. In general, soundings are in good agreement and depth curves on both are similar. ✓

<u>FEATURE</u>	<u>POSITION</u>	<u>REMARKS</u>
Pre-Survey Review Item #37 A 25 Ft. Sounding 25 Rk from H-15776 (1883-1906)	41°14.73' 72°02.65'	This item was investigated on "1" Day by Launch 1177; the sounding obtained at position 39 and 40 was 24 ft. Due to strong currents a leadline sounding could not be obtained, it is recommended that the 24 ft. sounding be accepted.
Pre-Survey Review Item #A from H-4043WD A 42 Ft. Sounding	41°14.80' 72°00.35'	Searched with negative results. Deleted 42 ft. sounding. Retain wire drag grounding of 42' from H-4043WD.
Pre-Survey Review Item #32 Rock Ledge Sunken rocks	41°18.96' 71°59.72'	Searched area with leadline and sounding pole, nothing found but grassy and sand bottom.
Obstruction Rep. P.S. Item "T" from NM 27, 1963	41°15.50' 72°01.98'	This obstruction no longer remains. Local residents indicate area cleared for ferry landing.
Pre-Survey Review Item # "S" from H 4008 WD Obstruction [23]	41°16.40' 72°02.56'	Developed by running close spaced lines with negative results. Development East of charted obstruction. Retain cleared 23' depth.
Pre-Survey Review Item #34 steel abstr. on T-9083 (1948)	41°18.30' 72°00.40'	Verified, used as Signal SAD. Concurred. PILING, 1954 (SAD) 093 from T-11450. This 8' sdg. is a stray (See fatigant posn. 1469). Not plotted on soundings sheet.
Pre-Survey Review Item #35 9 reported from CL 65 (1928)	41°16.95' 72°00.30'	Soundings on this item include a sounding of 8 ft. The 9 reported has been deleted. Charted 11 sdgs. in area.
Pre-Survey Review Item #35a Reef and ledge symbolization questioned	41°15.85' 72°00.52'	Verified 09-28-67. Area revised for Rk 9' from RS-721 (Bp. 71049) on chart 1974.

K. COMPARISON WITH THE CHART

A comparison was made with Chart 358, 15th Edition, dated November 7, 1966, scale 1:20,000. Soundings and curves are in general agreement.

The following is a list of changes found by comparison with Chart 358:

<u>CHARTED FEATURE</u>	<u>POSITION</u>	<u>REMARKS</u>
Private Pier ✓ <i>from RS-721 also pos. 4237</i>	41°15.77' 72°01.34'	This is a new pier to be charted. <i>This pier added to chart</i>
Private Pier ✓ <i>located by dp 4238</i>	41°15.75' 72°01.32'	This is a new pier to be charted. <i>This small pier from this source is 70 meters south of above larger pier from T. 11445 (1954-60)</i>
Fish Pound <i>located by dp. 4323-24</i>	41°18.88' 72°03.09'	This fish pound was not here in 1966-67 but built in 1968. Chart shows piles in this area, 4977 Ed. of charts 293 & 358 revised to agree with present survey.
Iron Stake <i>located by dp 4362</i>	41°16.12' 72°00.47'	This is used for mooring of private boat. Shown on smooth sheet as iron pipe
Private Pier ✓ <i>located by dp 4363</i>	41°16.33' 72°00.76'	To be charted. This pier shown in ruins on chart from RS 721 (dp 69922)
Private Pier ✓ <i>located by dp. 4364</i>	41°16.36' 72°00.91'	To be charted. This pier charted from RS 721
Private Pier ✓ <i>located by dp. 4365</i>	41°16.38' 72°00.97'	To be charted. This pier charted
Private Pier ✓ <i>located by dp. 4366</i>	41°16.52' 72°01.24'	To be charted. This pier charted
Private Pier ✓ ⁴³⁶⁷ <i>Lone pile located by d.p. 4367</i>	41°15.95' 72°01.48'	To be charted. This pile charted
8 Ft. Sounding <i>Re-survey re-survey station 33 correlating with L-232 (1914)</i>	41°18.44' 71°59.83'	This survey shows soundings of 10-15 ft. see Review

L. ADEQUACY OF SURVEY

This survey is considered both adequate and accurate. The limits of rocky or foul areas were developed fully, with as many positions on objects as is practicable to obtain on this type of survey. It should supersede all prior surveys for charting purposes. Numerous sdgs retained from prior surveys

M. AIDS TO NAVIGATION

There are 28 floating aids to navigation maintained by the U.S. Coast Guard. 11 privately maintained floating aids and 17 fixed aids to navigation within the limits of this survey. These were compared with light list and aids adequately serve the purpose for which they were established.

N. STATISTICS

<u>VESSEL</u>	<u>NO. POSITIONS</u>	<u>NAUTICAL MILES</u>
Launch 1177 (1966-67)	1582 (pos. 1-1584)	188.6
Launch 183 (1967)	891 (2000-2831)	124.2
Launch EX 1 (1968)	294 (5000-5291)	19.2
Skiff 758 (1967-68)	1503 (3000-4507)	122.4
Skiff 528 (1967)	23 (4600-4622)	1.2
TOTAL	4293	455.6

Total area surveyed 18.3 square nautical miles.
52 bottom samples.

A portable bubbler tide gage located at Neank, Conn. furnished tide control for this survey. See APPENDIX "C", TIDAL NOTE, for additional information on this station.

Submitted by

Walter H. Piner
Walter H. Piner
Surveying Technician

APPENDIX "A"

LIST OF CONTROL

Hydrographic Survey H-8926 (742-10-1-66)

*Ante
Belo*

NAME

ORIGIN OF STATION

ABE 001	T-11450	△ Race Rock Lighthouse, 1882
ACE 002	T-11450	
ACT 003	T-11450	
ADD 004	T-11450	
AHA 005	T-11451	
ALE 006	T-11446	△ Whaler Rock Day Beacon, 1954
ANK 007	T-11446	△ Heank Light, 1934
APT 009	T-11446	
ARK	T-11450	
ART 011	T-11446	
BAG 011		
BAH 012	G5, 1943	N.Y.
BED 013	T-11450	
BOX 014	T-11446	
BUD 015	T-11450	
BUS 016	156	Max Pollock Company Elevated Tank, 1934
CAB 017	T-11446	
CAM 018	T-11446	
CAR 019	T-11446	
CHY 020	T-11450	
CRA 022	T-11445	
CRF 023	T-11450	△ Camp Taber Barn Cupola, 1934
CUP 024	T-11450	△ Camp Taber Barn Cupola, 1934
CUR 025		
CUT 026		
DAW 027		
DAY 052		landmark
DEB		
DER 028	87	Ender's Cupola, 1934
DOT 029		
DUD 030		
EAT 031	T-11445	
EEL 032	T-11446	
EAR 033	T-11450	
FAT 034	T-11450	
FEW 035	T-11445	
FLA 036	T-11450	
FOE 037	T-11445	

lee

NAME

ORIGIN OF STATION

- GAD 038
GAL 059
GAM 040
GIL 042 GOM - T-11450 041
GUM 043

T-11450
T-11451
T-11451
T-11451
T-11451⁰
T-11445

HAG 044

T-11450 Δ Episcopal Church Tower (Fishers Island, NY New York), 1934 (T-11450)

HEM 045
HIP 046
HIT 047
HOT 048
HUB 049
HUG 050

T-11450
T-11445
T-11445
85 Prentis White Chimney, 1882 (T-11445)
T-11445
T-11445
T-11445

ICE 051
IDA 053
ILL
IMP 054
ITS 055
IVY 056
- JAP 057
JIM 058

T-11445
T-11450
T-11445
T-11445
T-11445
T-11445
T-11451
T-11450
T-11445

KED 059
KID 060
KIM 061
- LAD 062

T-11451
T-11451
T-11451
T-11450

LAX 063
LIA 064 landmark
LIZ
LOW 065
LUG 066

T-11446 Δ Morgan Point Lighthouse, 1874

T-11451
~~T-11450~~
T-11445
T-11450
T-11450

- MAG 111
MAN 067
MAR 069 MAL T-11451(668)
MOE 070 MIDO T-11446 071
MUG 072
MUM 073 T-11450

T-11450
T-11451
T-11445

Avery Point Light, 1954 Δ
~~Mumford Point RM No. 2, 1934~~

Photos Topo
Sta. No. G.P.
in list. N.L.P.

NAT 074
NEO 075
NEW 076
NIL 077
NIP 078
NIX 079
NOD NOD T-11451 \rightarrow 081
NUT NOR " \rightarrow 082

T-11450
T-11450
T-11445
T-11445
T-11445
T-11445
T-11445
T-11445
T-11445
T-11450 083

*Rev
Tam
W. J. J.*

NAME

ORIGIN OF STATION

ODD 084
OIL
ONE OIL 085
ONE -086
PAR 087
PEG 088
PUG 089

QUO 090

RAT 091
REV

SAD 093
SAY 095 SAX T-11450(094)
SAP 096
SIP 097
SIR 098
SKY 099

TAN 100 landmark
- TIB - T-11445 101
TUB 102
- USE - T-11450 103
WAS 104 landmark
WEE 105
- WEN - T-11445 104
YES
YIP 108

ZIP (ZIP) 109
ZOO 110

△ Seaflower Reef Light, 1954 (T-11450)
~~T-11451~~
△ North Dumpling Lighthouse, 1874 (T-11450)
T-11445
T-11450
T-11450
T-11450 089

T-11450

T-11445
T-11445

△ Piling, 1954 (5681m)
Presurvey Review item 34
lat. 41°18'17.46" (538.7m), long. 72°00'24.420"
T-11450
T-11450
T-11445
T-11445
T-11451
T-11450

△ Groton Coast Guard Training Station
Water Tank, 1943
T-11445

T-11446
T-11445

T-11445
T-11445

T-11445
T-11450

APPENDIX "B"

Corrections To Echo Soundings

		<u>Depth (Ft.)</u>	<u>Correction (Ft.)</u>
Launch 1177			
Fathometer DE-723, #263			
"a" thru "h" Day	"A" Scale	4.0-6.0	-0.2
		6.1-10.8	0.0
		10.9-16.8	+0.2
		16.9-19.8	+0.4
		19.9-22.2	+0.6
		22.3-26.8	+0.8
		26.9-32.4	+1.0
		32.5-36.0	+1.2
		36.1-38.4	+1.4
		38.5-41.0	+1.6
		41.1-42.6	+1.8
		42.7-45.0	+2.0
		45.1-47.0	+2.2
		47.1-49.0	+2.4
	"B" Scale	42.0-43.0	+0.8
		43.1-46.2	+1.0
		46.3-49.4	+1.2
		49.5-52.6	+1.4
		52.7-56.0	+1.6
		56.1-59.4	+1.8
		59.5-62.6	+2.0
		62.7-65.0	+2.2
		65.1-67.4	+2.4
		67.5-70.4	+2.6
		70.5-73.8	+2.8
		73.9-78.0	+3.0
		78.1-82.0	+3.2
		82.1-85.4	+3.4
		85.5-88.8	+3.6
		88.9-91.4	+3.8
		and deeper	+3.8
	"C" Scale	All depths	+2.4
Launch 183			
Fathometer DE-723, #927			
	"A" Scale	0.0-6.0	0.0
		6.1-17.0	+0.2
		17.1-26.0	+0.4
		26.1-36.0	+0.6
		36.1-39.4	+0.8
		39.5-52.0	+1.0
		42.1-45.0	+1.2
		45.1 and deeper	+1.4

①

②

← ③

④

Launch 183 Continued

Depth (ft.)

Correction (ft.)

Temperature-
Salinity
Data

60.0- 77.0	+1.5
77.1- 94.0	+2.0
94.1-110.0	+2.5
110.1-130.0	+3.0
130.1-149.0	+3.5
149.1-167.0	+4.0
167.1-186.0	+4.5
186.1-204.0	+5.0
204.1-220.0	+5.5
220.1-238.0	+6.0
238.1-257.0	+6.5
257.1-276.0	+7.0
276.1-295.0	+7.5
295.1-313.0	+8.0

(5)

Skiff 758
Fathometer DE-723, #806
"a" thru "f" Day

3.0- 5.2	0.0
5.3-12.0	+0.2
12.1-16.2	+0.4
16.3-19.4	+0.6
19.5-24.0	+0.8
24.1-30.0	+1.0
30.1 and deeper	+1.2

(6)

Skiff 758
Fathometer DE-723, #925
"g" Day thru Pos. 15 "h" Day

3.0- 4.2	-0.4
4.3- 8.3	-0.2
8.4-15.2	0.0
15.3-19.0	+0.2
19.1-and deeper	+0.4

(7)

Skiff 758
Fathometer DE-723, #535
Pos. 16 "h" Day thru "r" Day

0.0- 4.4	-0.2
4.5- 8.0	0.0
8.1-12.0	+0.2
12.1-18.0	+0.4
18.1-27.0	+0.6
27.1-31.2	+0.8
31.3-33.6	+1.0
33.7-36.0	+1.2
36.1 and deeper	+1.4

(8)

Depth (Ft.)

Correction (Ft.)

Skiff 758

Fathometer DE-723, #535

"g" thru "y" Day

3.0- 6.0	0.0
6.1- 12.0	+0.2
12.1- 16.0	+0.4
16.1- 21.0	+0.6
21.1- 27.0	+0.8
27.1- 42.0	+1.0
42.1- 61.8	+1.2
61.9- 91.4	+1.4
91.5-123.0	+1.6
123.1-130.0	+1.8
130.1 and deeper	+2.0

(9)

Launch EX-1

Fathometer DE-723, #1889

"a" thru "e" Day

6.0-21.0	0.0
21.1-30.0	+0.2

(10)

Launch EX-1

Fathometer DE-723, #1885

"A" Scale

6.0-12.0	-0.2
12.1-30.0	0.0
30.1-48.0	+0.2
48.1 and deeper	+0.4

(11)

"B" Scale

48.0-55.1	+1.0
55.2-58.6	+1.2
58.7-60.0	+1.4

(12)

Temperatures-

Salinity

Data

60.1-91.4	+1.6
91.5-123.0	+1.8
123.1-130.0	+2.0

Skiff 528
(All pole sds)

0 - 30

0.0

(13)

APPENDIX "C"

TIDAL NOTE

GAGE LOCATION: Neank, Conn.
Lat. 41°19.41' N
Long. 71°59.18' W

GAGE TYPE: Portable, Bubbler Gage

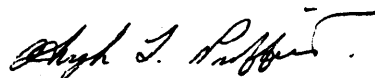
TIME MERIDIAN: 75th

STAFF: MLW corresponds to 2.1 on staff.

CORRECTION: No time correction applied to the results obtained from the gage in reducing soundings.

The tide gage at Neank, Conn. was used in connection with 1966 and 1967 work. The New London Standard Gage (State Pier) was used for work done in 1968. No time correction was used in reducing soundings.

In compliance with the enclosed letter from Datum Planes Section, dated Dec. 9, 1968, tide corrections for the 1968 seasons work on H-8926 were applied from hourly heights from the standard gage at New London, Conn. A time correction of -00:15 minutes and a 0.9 range ratio were used.



Hugh L. Proffitt
Chief, Hydrographic Processing Br. AMC

APPENDIX "D"

APPROVAL SHEET TO ACCOMPANY

Hydrographic Survey H-8926 (742-10-1-66)

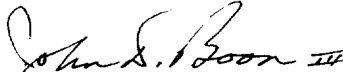
Project OPR-414

The field and office work was accomplished under my supervision.

The hydrography and descriptive report was done by Walter H. Piner.

The report and records for this survey are complete and adequate to the best of my knowledge.

Approved and forwarded


John D. Been III
Lt., USESSA
Chief of Party

UNITED STATES GOVERNMENT

Memorandum

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

TO : Director
Atlantic Marine Center

FROM : Chief, Datum Planes Section
Oceanography Division

DATE: December 9, 1968

In reply refer to:
C3311-180-MCFOB

SUBJECT: Tidal data, OPR-414, Fishers Island Sound *H-8926*

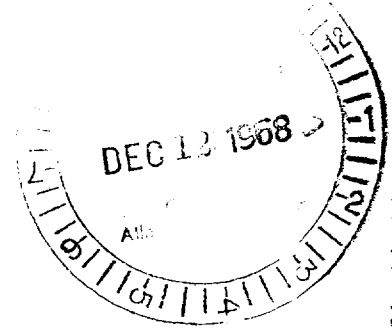
REF : Memorandum of December 3, 1968, CFN31

In accordance with your request there are enclosed hourly heights for June-July 1968 at New London, Connecticut. These hourly heights may be referred to the working grounds by using the correction of -0 15 minutes in time and 0.9 range ratio.

L. C. Wharton
L. C. Wharton

Enclosures

Received after 12:15 PM on 12/10/68



BUY U.S. SAVINGS BONDS REGULARLY ON THE PAYROLL SAVINGS PLAN

TIDE NOTE FOR HYDROGRAPHIC SHEET

February 20, 1969

~~Nautical Chart Division:~~ Atlantic Marine Center

Plane of reference approved ~~is~~
~~NO LONGER APPLICABLE TO THIS SHEET~~ for

HYDROGRAPHIC SHEET 8926

Locality: Fishers Island Sound, Conn.

Chief of Party: { A. J. Patrick, 1966-67
{ J. D. Boone, III, 1968

Plane of reference is mean low water

Tide Station Used (Form C&GS-681):

Noank, Conn. lat. $41^{\circ}19.41'$, long. $71^{\circ}59.18'$ used in 1966-67
New London (State Pier) used in 1968
lat. $41^{\circ}21.45'$, long. $72^{\circ}05.40'$ off limits of H-8926

at the working grounds
Height of Mean High Water above Plane of Reference is as follows:

2.3 feet

Remarks

J. M. Seymour
Chief, Tides and Currents Branch

GEOGRAPHIC NAMES
Survey No. H-8926

Name on Survey	Source of Name										
	A	B	C	D	E	F	G	H	K		
Avery Point ✓											1
Baker Cove											2
Bluff Point											3
Bushy Point											4
Bushy Point Beach											5
Clay Point											6
Elizabeth Field											7
Fishers Island											8
Fishers Island Sound											9
Flat Hammock											10
Goose Island											11
Groton Long Point											12
Hawks Nest Point											13
Hay Harbor											14
Horseshoe Reef											15
Intrepid Rock											16
Isabella Beach											17
Morgan Point ✓											18
Mouse Island											19
Mumford Cove											20
Mumford Point											21
Noank											22
North Hill											23
North Dumping											24
Palmer Cove ✓											25
Pine Island											26
Pine Island Channel											27

PREPARED BY

Frank W. Fickett
CARTOGRAPHIC TECHNICIAN

APPROVED BY

A. Joseph Wright
CHIEF GEOGRAPHER

GEOGRAPHIC NAMES

Survey No. H-8926

Name on Survey	Source of Name											
	A	B	C	D	E	F	G	H	K			
Planet Rock												1
Poquonock River												2
Pulpit Rock												3
Race Point												4
Race Rock												5
Seaflower Reef												6
Starbuck												7
Silver Eel Pond												8
South Dumpling												9
Swimming Rock												10
Venetian Harbor												11
Vixen Ledge												12
West Clump												13
West Cove												14
West Harbor												15
Whale Rock												16
Wilderness Point												17
Jupiter Point												18
												19
												20
												21
												22
												23
												24
												25
												26
												27

PREPARED BY

Frank W. Pickett
CARTOGRAPHIC TECHNICIAN

APPROVED BY

A. Joseph Wright
CHIEF GEOGRAPHER

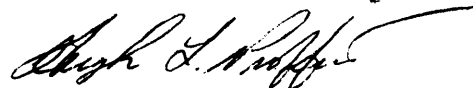
VERIFICATION NOTES
SURVEY H-8926

GENERAL

This appears to be an excellent basic survey except for some lack of development on shoal soundings, and some rather wide spacing of lines in areas of steep gradients where more soundings would have been helpful for positioning depth curves.

The problems encountered during verification were routine for this type of inshore survey. See the enclosed "AMC Plotter Notes to EDAT" for additional information.

All raw data and correction tapes were logged by personnel of the Verification Branch as the field party was not equipped with loggers at the time of the survey.



Hugh L. Proffitt
Chief, Verification Br., AMC

Norfolk, Va.
Dec. 7, 1970

H- 8926(742-10-1-66)

- A. Additions and corrections have been furnished the plotter
center by the verification unit. ^{Except those made for submission} ^{by Review}

Signed *Raymond A. Ruffner*
Title Chief, Verification Br., AMC
Date Dec. 7, 1970

- B. Additions and corrections have been added to the survey
records and the final smooth sheet forwarded to the ~~verification~~
~~unit~~ ^{Review} unit.

Signed *Raymond A. Ruffner*
Title Chief, Verification Br., AMC
Date Dec. 7, 1970

- C. The smooth sheet has been inspected, is complete, and
meets the requirements of the General Instructions for
automated surveys and the Hydrographic Manual. (Note:
All exceptions are listed in the verifier's report).

Signed *Raymond A. Ruffner*
Title Chief, Verification Br., AMC
Date Dec. 7, 1970

- D. Smooth sheet and records forwarded to Rockville, Maryland
Office.

Date Dec. 8, 1970

FORM C&GS-946
(REV. 11-65)
(PRESC. BY
HYDROGRAPHIC
MANUAL 20-2,
8-64, 7-13)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY
NAUTICAL CHART DIVISION

HYDROGRAPHIC SURVEY STATISTICS
HYDROGRAPHIC SURVEY NO. H-8926 (742-10-1-66)

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered.

RECORD DESCRIPTION		AMOUNT	RECORD DESCRIPTION		AMOUNT	
SMOOTH SHEET		/	BOAT SHEETS		/	
DESCRIPTIVE REPORT		/	OVERLAYS			
DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES	/					
CAHIERS			9			
VOLUMES	22					
BOXES						

T-SHEET PRINTS (1,101)

RS-714, 721 & 722

SPECIAL REPORTS (1,101)

OFFICE PROCESSING ACTIVITIES

The following statistics will be submitted with the cartographer's report on the survey

PROCESSING ACTIVITY	AMOUNTS			
	PRE-VERIFICATION	VERIFICATION	REVIEW	TOTALS
POSITIONS ON SHEET				4293
POSITIONS CHECKED		991		
POSITIONS REVISED		415		
DEPTH SOUNDINGS REVISED		50		
DEPTH SOUNDINGS ERRONEOUSLY SPACED				
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED				
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS		54		
JUNCTIONS		3		
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		64		
<i>Logging & preliminary special adjustments</i>	099			
ALL OTHER WORK		733		
<i>Approval Insp. completed 6/16/79</i>		854	190370	
PRE-VERIFICATION BY <i>D.C. Calland & G.F. Trefethen</i>	BEGINNING DATE 12-16-68	ENDING DATE 2-10-70		
VERIFICATION BY <i>F. Bean & G.F. Trefethen</i>	BEGINNING DATE 6-24-70	ENDING DATE 9-15-70		
REVIEW BY <i>Inspected G.K. Myers & J.T. Gallahan</i>	BEGINNING DATE 190hr 3-14-79	ENDING DATE 4-9-71		

REGISTRY NO. _____

The Computer and Excess Sounding Cards for this survey have not been corrected to reflect the changes made to the Computer Card and Excess Card Printouts at this time of the review.

When the cards have been updated to reflect the final results of the survey, the following shall be completed:

CARDS CORRECTED

DATE _____ TIME REQUIRED _____ INITIALS _____

REMARKS:

REGISTRY NO. H-8926

The magnetic tape containing the data for this survey has not been corrected to reflect the changes made during evaluation and review.

When the magnetic tape has been updated to reflect the final results of the survey, the following shall be completed:

MAGNETIC TAPE CORRECTED

DATE _____ TIME REQUIRED _____ INITIALS _____

REMARKS:

Items for Future Presurvey Reviews

With the addition of numerous soundings from prior surveys this is a good basic survey of the western part of Fishers Island Sound and adjacent in-shore areas. No significant changes of the bottom are found since the earlier surveys, except in isolated areas where a noticeable shifting of bottom sediments has occurred.

Any future survey of the area should investigate the following:

- (1) The Sunken Rock and 4-foot sounding at latitude $41^{\circ}18.64'$, longitude $71^{\circ}59.53'$ in the area of Planet RK. are from H-1526 (1882). The hydrographer ran parallel lines on either side of this shoal area but did not investigate the sunken rock or 4-foot depth.
- (2) Sunken wreck, P.A. charted subsequent to the present survey at latitude $41^{\circ}15.93'$, longitude $72^{\circ}00.25'$ originates with Local Notice to Mariners 19 of 1971.
- (3) Subm. Tripod P.A. charted subsequent to the present survey at latitude $41^{\circ}15.85'$, longitude $71^{\circ}58.49'$ originates with Notice to Mariners 19 of 1974.
- (4) Subm. RK rep 1972 charted with a danger curve at latitude $41^{\circ}18.54'$, longitude $72^{\circ}01.85'$ originates with chart letter 1286 of 1972. This danger to navigation lies in depths of 24-26 feet on the present survey.
- (5) The 42 charted in latitude $41^{\circ}14.83'$, longitude $72^{\circ}00.33'$ and the 23-foot cleared obstruction charted in latitude $41^{\circ}16.44'$, longitude $72^{\circ}02.65'$ from wire-drag surveys H-4043 (1918) and H-4008 (1917-18) were not found by present survey development. These features should be investigated again by alternate methods such as wire drag.

<u>Position Index</u>		<u>Bottom Change</u>	<u>Use</u>	<u>Resurvey</u>
<u>Lat.</u>	<u>Long.</u>	<u>Index</u>	<u>Index</u>	<u>Cycle</u>
411	0720	4	5	25 years
411	0721	4	5	25 years

OFFICE OF MARINE SURVEYS AND MAPS

HYDROGRAPHIC SURVEYS DIVISION

HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-8926

FIELD NO. 742-10-1-66

Connecticut, Fishers Island Sound, Mumford Cove to Fishers Island

SURVEYED: September 6-26, 1966; June 27-October 23, 1967; June 24-
July 31, 1968

SCALE: 1:10,000

PROJECT NO.: OPR-414

SOUNDINGS: DE-723, Echo Sounder,
Sounding Pole, and
Lead Line

CONTROL: Sextant Fixes on
Shore Signals

Chief of Party A. J. Patrick (1966-67)
..... J. D. Boone III (1968)
Surveyed by K. H. Voight and
..... Civilian Personnel
Protracted by Gerber Digital Plotter (PMC)
Soundings Plotted by Gerber Digital Plotter (PMC)
Verified and Inked by F. Bean, G. F. Trefethen
Reviewed by G. K. Myers
Date: April 9, 1971
Inspected by J. T. Gallahan

1. Description of the Area

This survey covers the western portion of Fishers Sound and the adjacent inland tributaries from Baker Cove to West Cove including Mumford Cove and Poquonock River; a small area of Block Island Sound is also covered. The area adjacent to the shoreline is generally foul and characterized by numerous rocks. Fishers Island Sound has several prominent offshore shoal and foul area features. Depths are generally less than 60 feet but reach 195 feet in Block Island Sound. Bottom characteristics are predominantly rocky, silt, and mud. Manmade features are common within harbor, cove, and river areas.

2. Control and Shoreline

The source of control is adequately covered in part F and appendix A of the Descriptive Report.

The major portion of the shoreline and other topographic information originates with revision surveys RS-713 (Bp. 71055), RS-714 (Bp. 71051), RS-721 (Bp. 71049, 69922), and RS-722 (Bp. 71050). These surveys provide revisions to T-11445, T-11446, T-11450, and T-11451 of 1954 using 1965 photography and 1966, 1967 field editing.

The dredged channel lines in Mumford Cove shown on topo revision survey RS-713 (Bp. 71055) are in error and should be disregarded.

The mean high water line is shown for guidance only; the true position is shown on the above mentioned revision surveys.

3. Hydrography

- a. Depths at crossings are in good agreement.
- b. The usual depth curves are adequately delineated. Some depth curves were not completely defined due to the foul nature of the inshore and offshore shoal areas. The supplemental 3-foot depth curve was added to more accurately depict the configuration of the bottom.
- c. The development of bottom configuration and investigation of least depths are considered adequate; however, a closer development of several offshore shoal features would have been desirable.

Several channels useful for small craft navigation were not developed by the present hydrography. No sounding lines were run in the channel leading into Hay Harbor. Indications of the channel along the piers in Baker Cove were found but the continuity of the channel was not developed. The channel providing passage through the shoal west of Bushy Point and into Baker Cove was not developed. A channel in West Harbor between Goose Island and Fishers Island was not developed. This channel subsequently was deepened by dredging in 1972. Soundings delineating these channels have been carried forward from prior surveys as appropriate. Air photographs of the area support the existence of the channels.

- d. The hydrographic investigation of the 23 Obstr. charted at latitude $41^{\circ}16.44'$, longitude $72^{\circ}02.65'$ was conducted in the wrong area. The investigation covered an area east of the position of this Presurvey Review Item "S" from H-4008 W.D. (1917-18).

4. Condition of Survey

The plotting, sounding records, and Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual except that the

numbers on the final position overlay were frequently illegible because of fading and required touching up.

5. Junctions

Adequate junctions were effected with H-8908 (1962-66) on the east, H-8709 (1961-62) on the south, and H-8996 (1968) on the northwest. The junction with verified survey H-9212 (1970) on the southwest will be discussed in the review of that survey.

6. Comparison with Prior Surveys

a.	H-91 (1839)	1:20,000	H-96 (1839)	1:20,000
	H-92 (1839)	1:10,000	H-97-99 (1839)	1:10,000
	H-95 (1839)	1:10,000		

These prior surveys taken together cover the present survey. General depths are in good agreement with some silting along the deeper slopes of the present survey. A comparison of present and prior depths within inshore areas reveals differences in areas of rocky bottom, shown as foul on the present survey. The present survey is considered adequate to supersede these early prior surveys within the common area.

b.	H-1526 (1882)	1:10,000	H-1577b (1883-1906)	1:10,000
	H-1527 (1882)	1:10,000	H-1527a (1904-1907)	1:10,000
	H-1529a (1882-83-86)	1:40,000		

These prior surveys taken together cover the present survey. A comparison of prior and present depths indicates a stable bottom except in the area of shoals where changes attributed to the natural process of buildup and erosion have altered the character of the bottom. Depths in the area of the federal project channels in West Harbor and Munford Cove have been altered as a result of Corps of Engineers dredging. Numerous soundings, bottom characteristics, and rocks have been transferred from these prior surveys to the present survey. These transferred items were not discredited and were used to supplement present hydrographic information.

Attention is directed to the following items:

(1) The low water shoal charted in latitude $41^{\circ}15.75'$, longitude $72^{\circ}01.45'$ originates with an erroneously plotted section of sounding line on H-1577b. In its correct position prior depths are comparable to present depths. Air photographs also reveal that no low water shoal exists in this position in the harbor.

(2) The submerged wreck charted in latitude $41^{\circ}19.28'$, longitude $72^{\circ}03.32'$ in 1 foot depths is noted on Bp. 71055 as "not visible at MLW"

and should be deleted from the chart. ✓

(3) The 1 foot charted from H-1527 between the buoy and pier at latitude $41^{\circ}19.30'$, longitude $72^{\circ}03.32'$ should be disregarded and soundings from the present survey reflecting the deep in this area should be charted.

With the additions noted above the present survey is adequate to supersede these prior surveys within the common area.

c. F.E. No. 2 (1947) 1:40,000

This hydrographic survey was an investigation of several different areas. Field examination item 2 is centered in the area of charted wire-drag sounding of 23 feet from H-4008 (1917-18) W.D. at latitude $41^{\circ}16.44'$, longitude $72^{\circ}02.65'$. The soundings from FE-2, 1947 and the present survey are in general agreement; however, this prior survey information was not adequate to disprove the charted wire-drag sounding which is Presurvey Review Item "S".

The present survey is adequate to supersede this field examination within the common area.

d. H-4008 W.D. (1917-18)	1:20,000
H-4008a W.D. (1918)	1:20,000
<u>H-4043 W.D. (1918-19)</u>	<u>1:20,000</u>

These wire-drag surveys taken together cover a large area of the present survey. Several shoal depths and bottom characteristics have been transferred to the present survey. No conflict exists between present depths and the effective drag depths except for the effective depth of 32 feet on H-4008a shown as clearing present depths of 28 to 30 feet in latitude $41^{\circ}17.85'$, longitude $71^{\circ}59.35'$. The conflict may have been caused by the wire drag experiencing excessive lift at the time. The cleared depth should be disregarded.

7. Comparison with Chart 13213 (293), latest print date, February 19, 1977
13214 (358), latest print date, May 14, 1977

a. Hydrography

The hydrography on reconstructed chart 13213 (293) is primarily from the boat sheets (Bp. 74133 and Bp. 75259) and the reviewed smooth sheet of the present survey, and is supplemented with few shoal depths from the prior surveys. Changes to the present survey were made during inspection.

The hydrography on chart 13214 (358) in the area not covered by the larger scale chart 13213 (293) is primarily from previously discussed prior surveys, supplemented by present survey information and chart letters 286 of 1972 and 232 of 1914.

Attention is directed to the following: *Several rocks uncovering 1 ft at MHW are mistakenly shown on the S.S. as bare rocks. These rocks should be charted with rock awash symbols. 3/2/84 FPS.*

(1) The previously charted 13 sounding (Presurvey Review Item 38) at latitude $41^{\circ}18.63'$, longitude $72^{\circ}03.78'$ originated with chart letter 427 of 1913, a naval vessel report. The 13 depth has been deleted from the chart and replaced with a 10RK from junctional survey H-8996.

(2) The charted 8 sounding at latitude $41^{\circ}18.43'$, longitude $71^{\circ}59.84'$ is the shoalest of several depths (Presurvey Review Item 33) originating with chart letter 232 of 1914, a Corps of Engineers special investigation. An investigation of the area by the hydrographer determined the least depth to be 9 feet. This supersedes the charted soundings and therefore the charted hydrography in the area should be revised to agree with the present survey.

(3) The charted obstruction (Presurvey Review Item 34) at latitude $41^{\circ}18.29'$, longitude $72^{\circ}00.41'$ is from T-9083 (1948). This steel obstruction is triangulation station PILING, 1954 on the present survey and T-11450 (1954-60). The chart should reflect this change and legend "Obstr" should be deleted and replaced with "Piling".

(4) The charted 25RK (Presurvey Review Item 37) at latitude $41^{\circ}14.73'$, longitude $71^{\circ}02.65'$ is from H-1577b (1883-1906). This shoal is substantiated by a nearby 24-foot depth on the present survey. The 25 should be deleted and replaced with the 24 sounding.

(5) The legend "Obstr. rep." (Presurvey Review Item "T") charted at latitude $41^{\circ}15.55'$, longitude $71^{\circ}01.93'$ at the entrance to Silver Eel Pond originates with Notice to Mariners 27 of 1963. The hydrographer states that the obstruction has been removed. Therefore the legend "Obstr. rep." should be deleted from the chart.

(6) The cluster of sunken rocks (Presurvey Review Item 32) charted at latitude $41^{\circ}18.96'$, longitude $71^{\circ}59.72'$ is from an unknown early source. An investigation of the area on the present survey failed to reveal any dangers in this area; see hydrographer's note in the Descriptive Report. Considering the lack of source information regarding the validity of the position of the sunken rocks and the results of the investigation, it is recommended that the charting of the rocks be discontinued.

(7) The charted visible wreck (a dashed Presurvey Review Item) at latitude $41^{\circ}19.11'$, longitude $71^{\circ}59.53'$ is from T-9084 (1948). The existence of this wreck which bares 6 foot MHW has been confirmed by a detached position on the present survey and the wreck should be retained as charted.

(8) The subm. dol. (a dashed Presurvey Review Item) charted at latitude $41^{\circ}16.08'$, longitude $72^{\circ}00.49'$ originates as a dolphin on T-9086 (1948). This dolphin, although not shown on subsequent topo or hydro sources, has not been disproved and should be retained as charted.

(9) The charted sunken rock and adjacent 4-foot sounding marking Planet RK at latitude $41^{\circ}18.64'$, longitude $71^{\circ}59.53'$ (a Presurvey Review dashed Item) is from H-1526 (1882). The sunken rock and 4-foot shoal from this early survey were not adequately investigated or discredited by the present survey and should be retained on the chart.

(10) The 11 sounding charted at latitude $41^{\circ}18.40'$, longitude $72^{\circ}02.93'$ is from the present survey prior to inspection. This shoal sounding on Vixen Ledge has been revised from a 11- to 10-foot depth on the present smooth sheet. Therefore the Vixen Ledge shoal depth should be changed from 11 to 10 feet. ✓

(11) The rock awash with a danger curve around it charted at latitude $41^{\circ}19.02'$, longitude $72^{\circ}03.57'$ is from chart letter 706 of 1955. This rock originates with an office interpretation of an air photograph of 1955 and is not shown on any of our surveys or revision sheets made from air photographs prior or after the photograph of 1955. It is also reported not to exist in chart letter 706 (1955). The rock is considered to be nonexistent and should be deleted from the chart. ✓

(12) The sunken rock at latitude $41^{\circ}17.34'$, longitude $72^{\circ}01.09'$ should be deleted from chart 358. This rock was erroneously added in the printing of the 1977 edition of this chart. The sunken rock does not appear on the larger scale chart 293. ✓

(13) The three submerged piles charted at latitude $41^{\circ}16.10'$, longitude $72^{\circ}01.35'$, latitude $41^{\circ}16.01'$, longitude $72^{\circ}01.45'$, and latitude $41^{\circ}15.80'$, longitude $72^{\circ}01.53'$ originate with T-9086 (1948). These piles, while not appearing on subsequent topographic sheets, were not discredited by the present survey and should be retained as charted. ✓

(14) Two rocks awash 60 meters apart charted at latitude $41^{\circ}16.5'$, longitude $72^{\circ}01.17'$ and latitude $41^{\circ}16.53'$, longitude $72^{\circ}01.2'$ originate with T-9086 (1948). These two rocks were shifted out of position in the process of revising the nearby HWL on the chart. These rocks do not ✓

appear on subsequent hydrographic or topographic sources and are considered nonexistent. These two rocks awash should be deleted from the chart.

(15) In the area of West Clump at latitude $41^{\circ}17.3'$, longitude $71^{\circ}59.7'$ there are rocks charted from both the present survey and H-1577b (1883-1906). There are slight differences in the positions of some of the rocks on the two surveys. The present survey adequately delineates the area and should be used in charting.

(16) The 6 charted in latitude $41^{\circ}59.92'$, longitude $72^{\circ}00.38'$ from Bp. 29008 was not disproved by the present survey and should be retained on the chart. Bp. 29008 was not microfilmed and is not available for inspection.

(17) The ledge as shown on the present survey at latitude $41^{\circ}15.0'$, longitude $72^{\circ}01.9'$ should be added to the chart.

(18) The two obstructions charted in the vicinity of latitude $41^{\circ}18.85'$, longitude $72^{\circ}00.17'$ from Bp. 69462 are identified on superseding Bp. 71055 as buoys. The obstruction notation should be disregarded.

(19) The following charted items were added subsequent to the present survey and should be retained as charted:

(a) The danger curve and legend "Subm RK rep 1972" at latitude $41^{\circ}18.54'$, longitude $72^{\circ}01.86'$ originate with chart letter 1286 of 1972.

(b) Sunken wreck P.A. at latitude $41^{\circ}15.93'$, longitude $72^{\circ}00.25'$ originates with Local Notice to Mariners 19 of 1971.

(c) Subm. Tripod P.A. at latitude $41^{\circ}15.85'$, longitude $71^{\circ}58.49'$ originates with Notice to Mariners 19 of 1974.

(d) Dolphin "A" Ra Ref. P.A. at latitude $41^{\circ}15.84'$, longitude $71^{\circ}58.46'$ originates with Local Notice to Mariners 3 of 1976.

Attention is directed to the Descriptive Report for additional comparison of charted features with the present survey.

With the addition of items carried forward the present survey is considered adequate to supersede the charted hydrography in the common areas.

b. Controlling Depths

The charted controlling depth note in West Harbor is based on a 1965 Corps of Engineers condition survey (Bp. 68856) and is in harmony with

the present survey. The 7 foot REP channel notes charted in latitude $41^{\circ}15.8'$, longitude $72^{\circ}00.5'$ and at the head of the harbor from chart letter 369 (1972) are subsequent to the present survey and should be retained. It is noted that the channel should be charted as extending through the reef as the purpose of the dredging was to provide passage for small craft. A channel through the reef can also be seen on photographs of the area.

c. Aids to Navigation

The fixed and floating aids on the present survey are in substantial agreement with the chart and adequately mark the features intended. Attention is directed to the following:

(1) Two fixed lights at latitude $41^{\circ}15.49'$, longitude $72^{\circ}02.00'$ and latitude $41^{\circ}15.52'$, longitude $72^{\circ}01.96'$ originate with subsequent Notice to Mariners 10 of 1970. The position for these two lights, which mark the entrance to Silver Eel Pond, agree with those on ferry piling markers on the present survey.

(2) Several charted daybeacons have been added or replace buoys which previously marked the formerly charted channel in the area of Mumford Cove.

(3) The mooring buoy charted at latitude $41^{\circ}15.63'$, longitude $71^{\circ}59.30''$ originates with Notice to Mariners 18 of 1956. It was not identified on the present survey or contemporary topographic sources. The buoy was probably of a temporary nature and its present existence at this location is questionable.

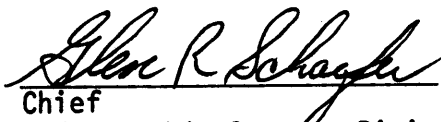
8. Compliance with Instructions

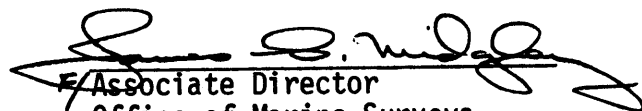
This survey adequately complies with the project instructions.

9. Additional Field Work

This survey is considered an adequate basic survey and no additional field work is recommended.

Examined and Approved:


Chief
Hydrographic Surveys Division


Associate Director
Office of Marine Surveys
and Maps

For schedule of operation
Stations
 Little Gull Island Lighthouse
 Point Judith Lighthouse
 Block Island Southeast Lightho
 Montauk Point Lighthouse

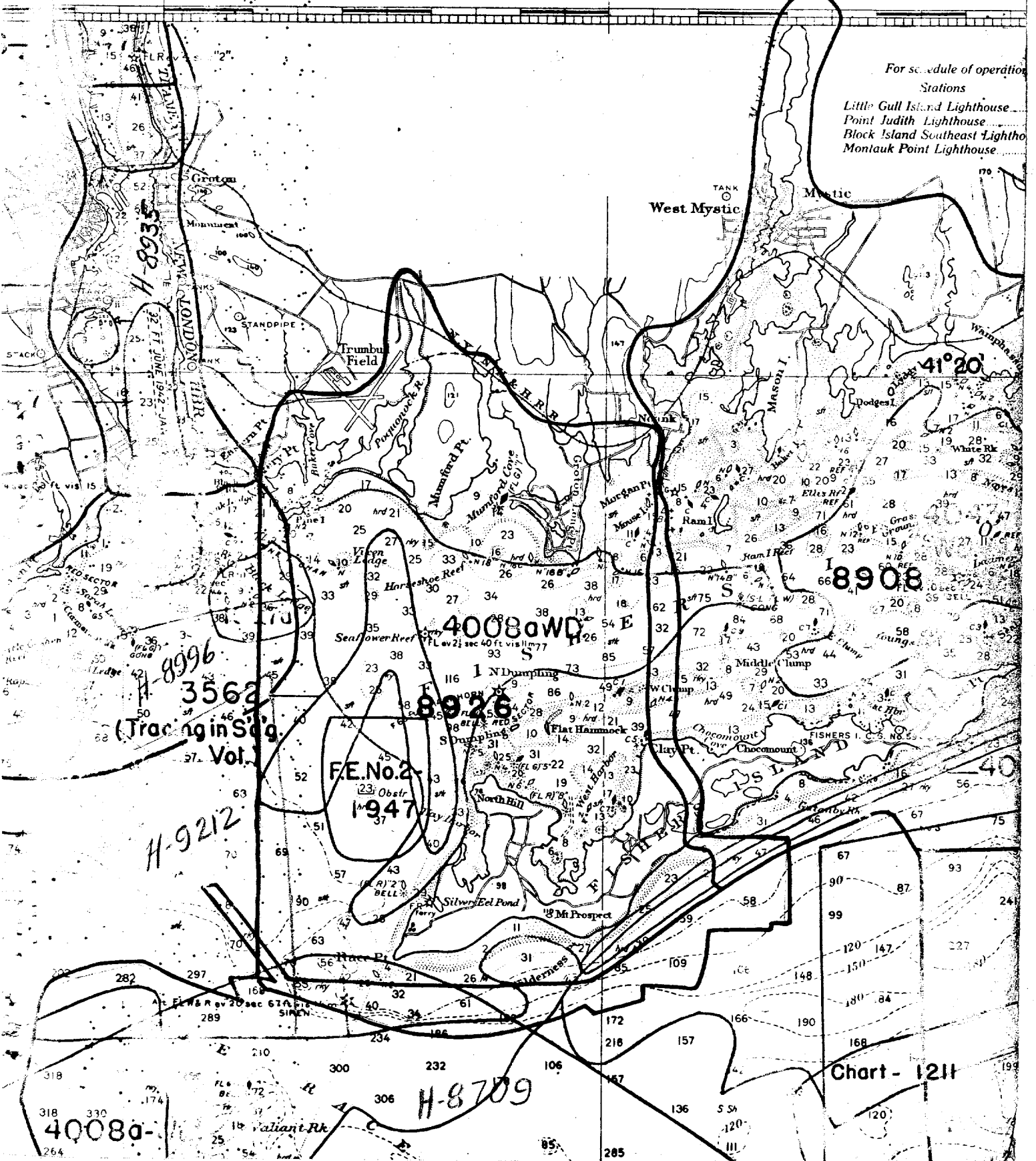


Chart - 1211

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-8926

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
358	1-22-71	F.W. MALONEY	Full Part Before After Verification ^{before} Review Inspection Signed Via Drawing No. # 217 <i>Proof</i> Applied critical corrections only
293	2-17-71	R.D. Sanocki	Full Part Before After Verification Review Inspection Signed Via Drawing No. <i>Part after verification before R&I</i> Applied critical corrections only at Proof stage.
1211	5-27-71	Joe Esterreicher	Full Part Before After Verification ^{before} Review Inspection Signed Via Drawing No. #40 Applied critical corrections only
1108	7-6-71	B. Fenwick	Full Part Before After Verification Review ^{before} Inspection Signed Via Drawing No. <i>Thru chrt 1211</i>
70	7-30-71	KIRBY GEAR	(Full) Part Before After Verification Review Inspection Signed Via Drawing No. <i>NO APPLICATION AREA DEVOID OF HYDROGRAPHY</i>
293	6 Aug 71	R.D. Sanocki	Full Part Before After Verification Review Inspection Signed Via Drawing No. #25 <i>Applied critical corrections</i>
1165C page A	9-15-71	H.R. Adde	Full Part Before After Verification Review ^{before} Inspection Signed Via Drawing No. <i>Applied critical corr only thru chrt 358 #27</i> <i>Approved Exam Review directly for critical corr only no corr Re-apply thru large scale</i>
362	9-21-71	Joe Esterreicher	Full Part Before After Verification Review Inspection Signed Via Drawing No. 16 <i>Critical corr. only thru chrt 116 5C page A</i>
1212	10-4-71	Roger J. Quinlan	Full Part Before After Verification Review Inspection Signed Via Drawing No. <i>BEJAM FOR CRITICAL CORR ONLY</i> <i>THRU CHT 116-5C NO CORR</i>
358	9-17-72	Spencer R. Corbett	Full Part Before After Verification Review Inspection Signed Via Drawing No. #28 <i>EXAM. REVIEW FOR CRITICAL CORRECTIONS ONLY IN PART THRU CHT 293 #25 & IN PART DIRECT.</i>
359	8-26-72	John Edmund	Part After Verification & Review Before Inspection Via Drawing No. 26 ^{Proof} Applied critical corrections thru chart 358 dwg # 28 (Exam. of Review)
359	4-21-72	Donald L. Pottelore	Part Applied after verification & the peruse but before inspection, critical corrections only
1165C PAGE "A"	10-2-72	Spencer R. Corbett	Part OP'D BEFORE INSPECTION VIA DWG #12V ^{Proof} EXAM REVIEW FOR CRITICAL CORR. - APP'D THRU CHT. 358 # 28.

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-8926

INSTRUCTIONS

- A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
 2. In "Remarks" column cross out words that do not apply.
 3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
116-SC	5-24-74	Robt Heeley	Full Part Before After Verification Review Inspection Signed Via ^{BEFORE}
PAGE "A"			Drawing No. 15 APPLIED ADDITIONAL CRIT. CORRS ONLY,
13214 (358)	10-21-72	H. Radden	THRU CHT 359, DRWG #27-27a before Full Part Before After Verification Review Inspection Signed Via
			Drawing No. 29 Re-applied small section of sheet only
13213 (293)	5-13-76	Robt Heeley	Full Part Before After Verification Review Inspection Signed Via ^{BEFORE}
			Drawing No. 30 APPLIED EXTENSIVE REVISIONS FOR CHART EXTENSION AND RECONSTRUCTION PURPOSES
358	6-28-76	D.L. Pollock	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. MOVED "SILVER FEE POND LT" 2"
13212 (359)	10-14-76	Robt Heeley	Full Part Before After Verification Review Inspection Signed Via ^{BEFORE}
			Drawing No. 28 APPLIED EXTENSIVE REVISIONS IN AREA OF CHART (13213) 293 ONLY.
12372 (116-SC) "A"	10-22-76	Robt Heeley	Full Part Before After Verification Review Inspection Signed Via ^{BEFORE}
			Drawing No. 17 APPLIED EXTENSIVE REVISIONS IN AREA OF CHART (13213) 293 ONLY.
13214 (358)	11-18-76	Robt Heeley	Full Part Before After Verification Review Inspection Signed Via ^{BEFORE}
			Drawing No. 30 APPLIED EXTENSIVE REVISIONS IN AREA OF CHART (13213) 293 ONLY.
13205 (1211)	11-22-76	David C. Cross	Full Part Before After Verification Review Inspection Signed Via ^{BEFORE}
			Drawing No. 45 Applied soundings and bottom characteristics in Area of reconstructed chart (13213) 293 ONLY.
			Full Part Before After Verification Review Inspection Signed Via ^{BEFORE FINAL}
13205 (1211)	9-26-79	Josephine R. Harris	Drawing No. #48 APPLIED SOME CRITICAL CORRECTIONS THRU CHART 12372 (116-SC "A")
13209 (362)	10-29-79	James T. Conife	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. 73 applied new abbreviations in hydrographic
13213 (293)	4-9-81	D. Wylie	FULL AFTER VERIFICATION REVIEW INSPECTION SIGNED VIA DRAWING # 34 Comp. time 9 Hrs.
13214 (358)	4-23-81	D. Wylie	FULL AFTER VERIFICATION REVIEW INSPECTION SIGNED VIA DRAWING # 32 Comp. time 55 Hrs. DW.
13213	7-21-82	Walter J. Gray	Drawing # 35 Made minor corrections & revisions to ch. 13213 after fully applied. ^{1.5 comp.} 1.0 revised
13212	8-18-82	James T. Conife	Full After Verification Review Inspection Signed Via Drawing # 31 Revised soundings, curves and tracks to drawings. 18 hrs compiling ver. 3 hr. rev.

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. *H-8926*

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

- 1. Letter all information.
- 2. In "Remarks" column cross out words that do not apply.
- 3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
13214 (358)	9-10-82	<i>Barbara Lovell</i>	Full Part Before After Verification Review Inspection Signed Via Drawing No. #32 Reapplied from cht. 13212-overlap <i>area 30 HAS comp</i>
12300	8-1-88	<i>Ernell Monte</i>	Full Part Before After Verification Review Inspection Signed Via Drawing No. No Correction no Hydro in this area
12372	1-4-91	<i>K.R. Forster</i>	Full Part Before After Verification Review Inspection Signed Via Drawing No. 28 Revised sounding, curves, + rocks <i>throchts 13212, 13213, 13214.</i>
13208	8-14-95	<i>A. Hancock</i>	Full Part Before After Verification Review Inspection Signed Via Drawing No. 55 Consider fully Appl.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.