

H10540

NOAA FORM 76-35A

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

## DESCRIPTIVE REPORT

Hydrographic

Type of Survey .....

Field No. .... AHP-10-5-94

Registry No. .... H-10540

### LOCALITY

State .... Connecticut

General Locality Long Island Sound

Sublocality Shippan Point to  
Cos Cob Harbor

19 94

CHIEF OF PARTY  
LCDR J. E. Waddell

### LIBRARY & ARCHIVES

DATE .... OCT 21 1997

H-10540

HYDROGRAPHIC TITLE SHEET

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.

AHP 10-05-94

State Connecticut

General Locality Long Island Sound

Locality Cos Cob Harbor to Shippan Point

Scale 1:10,000

Date of Survey ~~May 23~~ <sup>JUNE 2</sup>, 1994 - September 26, 1994

Instructions Dated March 2 1994

Project No. OPR-B285/AHP

Vessel NOAA Launch 1292

Chief of Party James E Waddell, Jr., LCDR, NOAA

Surveyed By Atlantic Hydrographic Party

Soundings taken by echo sounder and pole

Graphic record scaled by GDH and CBM \*\*

Graphic record checked by GDH and CBM \*\*

Protracted by HDAPS

Automated plot by Bruning ZETA 824A

Verification by Atlantic Marine Center

Soundings in meters at MLLW

REMARKS: \*\* GDH - Glenn D. Hendrix

CBM - Cory B. Miller

*NOTES IN RED WERE MADE DURING OFFICE PROCESSING*

*AWOIS / SURF ✓ 10/17/97 SJ ✓*



DESCRIPTIVE REPORT TO ACCOMPANY  
HYDROGRAPHIC SURVEY H-10540  
FIELD NO. AHP-10-05-94  
SCALE: 1:10,000  
1994  
ATLANTIC HYDROGRAPHIC PARTY  
CHIEF OF PARTY: LCDR James E. Waddell, Jr.

A. PROJECT

This survey was conducted in accordance with Hydrographic Project Instructions OPR-B285-AHP, Western Long Island Sound, New York and Connecticut, dated March 2, 1994.

The purpose of this project is to provide contemporary hydrography for the maintenance of existing charts. The area was last surveyed in the 1930's.

B. AREA SURVEYED

The area surveyed for H-10540 covers Cos Cob Harbor, Greenwich Cove and Stamford Harbor. The survey limits are as follows:

North - 41°02'33"N  
South - 40°57'24"N  
West - 073°36'03"W  
East - 073°31'18"W

This survey was conducted from May 23, 1994 (DN 143) to Sept. 26, 1994 (DN 269).

C. SURVEY VESSELS

Vessel 1292, a 21-foot MonArk was the sounding vessel used to collect all survey data. There were no unusual vessel configurations nor problems encountered.

D. AUTOMATED DATA ACQUISITION AND PROCESSING *SEE ALSO THE EVALUATION REPORT*

The Hydrographic Data Acquisition and Processing System (HDAPS) was used to process all hydrographic data for this survey. PC-DAS version 4.03 was used for on-line data acquisition. A listing of HDAPS programs used for data processing and their corresponding version numbers is appended to this report. *FILED WITH THE ORIGINAL FIELD DATA.*

The following non-HDAPS computer programs were used:

VELOCITY (IBM PC)	Ver. 2.0 (12/18/92)
NADCON (IBM PC)	Ver. 1.01
WORDPERFECT (IBM PC)	Ver. 6.0

E. SONAR EQUIPMENT

Not Applicable.

F. SOUNDING EQUIPMENT

An Innerspace model 448 depth sounder, serial number 188 was used to collect all soundings for this survey.

A standard lead line calibrated in meters, serial number 1292, was used during this survey for comparison readings with the echo sounder. A 5-meter wooden sounding pole, marked according to Hydrographic Survey Guideline (HSG) No. 69, was used to obtain pole soundings.

G. CORRECTIONS TO SOUNDINGS

Corrections for the speed of sound through water were computed from data obtained with a Sea-Bird Electronics SeaCat, serial number 192276-0287 and an Odom Hydrographic Systems Digibar electronic speed of sound Probe serial number 169. Data quality assurance tests were performed in accordance with Field Procedures Manual (FPM) 2.1.3.2, prior to each cast. Program VELOCITY, version 2.0, was used to compute the speed of sound corrections. Copies of the velocity tables and cast data are in the "Survey Separates." *FILED WITH THE ORIGINAL FIELD DATA.*

Correctors for the velocity of sound through water were determined from the casts listed below:

<u>Velocity Table No.</u>	<u>Cast No</u>	<u>Deepest/ Extrapolated Depth (m)</u>	<u>Applicable DN</u>	<u>Cast Position</u>	<u>Day</u>
1	1	32.0/41.6	143-192	40°59'42"N 073°31'30"W	159
2	2	14.0/18.1	193-199	40°57'30"N 073°36'00"W	193
3	3	29.2/38.0	200-207	40°59'00"N 073°32'00"W	200
4	4	26.3/34.2	208-213	40°59'05"N 073°32'00"W	208
5	5	24.3/31.5	214-216	40°58'45"N 073°31'45"W	214
7	7	17.1/22.2	251-253	41°02'00"N 073°23'00"W	250
8	8	30.3/39.4	258-269	40°59'30"N 073°33'00"W	263

Weather permitting, lead line comparisons were conducted each day in accordance with FPM 2.1.3.1. No instrument error was detected from these comparisons. The lead line comparison form can be found in the "Survey Separates." *FILE WITH THE ORIGINAL FIELD DATA*

A static draft of 0.3 meter was applied to the on-line data. The draft was measured by subtracting the difference from a punch mark on the side of Launch 1292, 0.6 meter above the transducer, to the water surface.

Settlement and squat measurements were performed on March 31, 1993 (DN 090), at Pensacola, Florida, using Zeiss level S/N 08754. Settlement and squat correctors and the static draft corrector were applied on-line through the offset table. Copies of the field data, the graphs of the settlement and squat

correctors vs. speed in m/sec., and the offset table are included in the "Survey Separates." *FIXED WITH THE ORIGINAL FIELD RECORDS*

The Willets Point tide station 872-9840, served as control for datum determination. This station is also the reference station for the predicted tides which were applied to the final sounding plot. This survey required a -30-minute time corrector for both high and low tide, and a x1.02 range ratio to be applied to the predicted tides.

The final sounding plot was plotted after reapplying the correctors to each data record using the HDAPS program REAPPLY.

Approved tides were requested from the Sea and Lake Levels Branch, N/OES231, in a letter dated January 9, 1995. A copy of the letter is appended to this report. *APPROVED TIDING AND TIDES WERE APPLIED DURING OFFICE PROCESSING.*

H. CONTROL STATIONS *SEE ALSO THE EVALUATION REPORT.*

The horizontal control datum for this project is the North American Datum of 1983. The USCG Differential GPS (DGPS) Beacon at Montauk Point, was used to control this survey. Station CAL2 1994 was established by measuring the baseline between it and a Third-order, Class I station using GPS, by AHP personnel. This station served as the launch performance checkpoint. Positions for both stations are shown on the "Control Station List," appended to this report.

#### I. HYDROGRAPHIC POSITION CONTROL

Differential GPS was used as the method of positioning for all hydrographic data on this survey. The USCG Differential GPS beacon at Montauk Point, New York was used as the reference station in conjunction with beacon receiver serial number X-1085 and antenna serial number MBA-M1028 on launch 1292. An Ashtech sensor, serial number 700417B1207 was used as the remote station on vessel 1292. This equipment met the accuracy standards for this 1:10,000 scale survey.

Performance checks were conducted daily by resting the launch alongside station CAL 2 1994. The raw record and the abstract of these checks are included in the "Survey Separates."

Occasionally, a good position misplotted on the raw track plot. This problem was attributed to good DGPS data following a period of questionable DGPS data. These positions were reviewed, then edited or rejected as necessary.

J. SHORELINE *SEE ALSO THE EVALUATION REPORT.*

Shoreline shown on the final sounding plot was transferred by hand from shoreline manuscript TP-01267. This manuscript was compiled using NAD 1927 at 1:20,000 scale and enlarged to 1:10,000 scale. Program NADCON was used to calculate the offset of datum ticks applied to the T-sheet for aligning the field sheets.

Shoreline verification was conducted using main scheme hydrography that junctioned at shore, detached positions, or by visual inspection. Verified shoreline is shown in black ink on the final sounding plot. Existing piers and other shoreline features which agreed with the shoreline manuscript were given reference numbers, while piers and other shoreline features not shown were located by detached positions and are shown in red on the final sounding plot.

Due to the numerous piers and dolphins centered around 41°02'27"N, 073°31'29"W and 41°02'15"N, 073°32'41"W, these shoreline features are not shown on the final sounding plot.

The hydrographer recommends that details seaward of the HWL from this survey be used to supersede TP-01267 in the common area. *CONCUR*

The following features were identified on this survey and did not appear on TP-01267.

Position	Latitude	Longitude	Description
555-569	41°02'27"N	073°31' <sup>3</sup> 29"W	Floating Piers * & Dolphins
610-615	41°02'15"N	073°32'41"W	Floating Piers *



544	41°01'22.36"N	073°34'24.43"W	Pier - AWOIS #6381
545	41°01'20.43"N	073°34'22.70"W	Pier - AWOIS #6381
546	41°01'19.35"N	073°34'17.98"W	Pier - CHARTED, RETAIN
547	41°01'21.64"N	073°34'11.21"W	Pier - CHART - AWOIS 8362
548	41°01'00.43"N	073°34'05.51"W	Pier } CHARTED, NO CHANGE
623	41°01'20.72"N	073°31'54.07"W	Pier } IN CHARTING

The wavebreakers at 41°01'54"N, 073°32'24"W, are now in ruins. Detached positions were taken on day 194, positions 616-620, to define the ruins. *CONCURRE. RETAIN AS CHARTED*

The ruins at 41°00'40"N, 073°34'03"W, are a rock groin extending from shore. The groin is located inside a foul area. A detached position, number 606, was taken on day 194 to position the groin. *REVISE TO GROIN IN RUINS. SHOWN AS RUINS ON CHART 12368*

The ruins at 41°00'48"N, 073°33'56"W, are a line of rocks that appear to be a breakwater. The launch could not get to the breakwater to take a detached position because of visible and submerged rocks in the area. The breakwater is located inside a foul area and should remain as charted. *CONCURRE.*

Verified shoreline features are shown in black ink on the final sounding plot. Their reference numbers were hand plotted on the final sounding plot. Field notes, and explanations of new shoreline features are located on the graphic record. Photographs of the features are in the "Survey Separates.\*" A complete list of all detached positions by day is included in the accordion file. It lists the position of each feature or item number. *\*FILED WITH THE SURVEY FIELD RECORDS.*

There was a shoreline change at 41°02'12"N, 073°35'36"W. The change appears to be man made. Detached positions 2632-2635 were taken on day 251 to show these changes. The change is shown on the final sounding plot in red ink. Two piers located at 41°02'24"N, 073°35'34"W, and 41°02'23"N, 073°35'36"W, no longer exist because of the shoreline change in the area. *CONCURRE. CHART AS SHOWN ON THE PRESENT SURVEY*

The hydrographer recommends that shoreline changes from this survey be used to supersede prior shoreline information. *CONCURRE*

K. CROSSLINES

A total of 28.7 nautical miles of crosslines were run, representing 11.6% of the main scheme hydrography. Crossline soundings agree with main scheme soundings within 0.4 meter.

L. JUNCTIONS *SEE ALSO THE EVALUATION REPORT*

This survey junctions with H-10353, a 1:10,000 scale survey from 1990, to the south; H-10348, a 1:10,000 scale survey from 1990, to the southeast; H-10354, a 1:10,000 scale survey from 1990, to the east; H-10542, a 1:10,000 scale survey from 1994, to the west; and H-10565, a 1:10,000 scale survey from 1994, to the northeast. Junction sounding agreements are:

- with H-10353 - within 0.4m
- with H-10348 - within 0.5m
- with H-10354 - within 0.6m
- with H-10542 - within 0.6m
- with H-10565 - within 0.6m

M. COMPARISON WITH PRIOR SURVEYS *SEE ALSO THE EVALUATION REPORT*

This survey will be compared with the prior surveys H-5142 (WD/1931), H-5222, (1932) and BP-36906 COE/43 at AHB. AWOIS items 4413, 6388, 6393, 6396, 6406, 6618, and 6620, originated from prior surveys.

N. ITEM INVESTIGATION REPORTS

Thirty-eight AWOIS items were assigned to this survey. Thirty-five of the items, numbers 4413, 6381-6403, 6405-6408, 6618, 6620, 6621, 6629, and 6635-6637, were resolved. Three of the items, numbers 7682, 7674 and 8882, were not resolved because of the large search radius and the limited resources of the field party. N/CG241, per a telephone conversation on August 30, 1994, agreed to let AHP leave these items unresolved.

(N.4) (N.5)  
AWOIS items 7682 and 8882 should remain as charted. AWOIS item 7674 describes a visible wreck, which was not visible during main scheme hydrography. AWOIS 7674 <sup>(N.3)</sup> should be removed from the chart and a dangerous submerged wreck should be charted in its place.

*SEE SECTIONS N.3, 4, 5 OF THE EVALUATION REPORT*

Item investigation reports are appended to this report.

O. COMPARISON WITH THE CHART *SEE ALSO THE EVALUATION REPORT.*

Comparisons were made with chart 12367, 19th Edition, August 19, 1993. and chart 12368, 21st Edition, December 12, 1992.

One danger to navigation was identified during this survey. A copy of the Danger to Navigation letter is appended to this report. The letter describes a rock which was found while conducting a special investigation for the Stamford Marine Police on a submerged obstruction on day 195, positions 8000-8034. A development was run over the area at 10-meter line spacing. A rock was located at  $41^{\circ}01'08.20''N$ ,  $073^{\circ}32'56.10''W$  with a least depth of 6.2<sup>2.1</sup> ft. (1.9m). The line of hydrography that the rock was located on was retained for smooth plotting. The remaining hydrography from the development was designated "NSP." *SEE SECTION O.1. OF THE EVALUATION REPORT.*

Current soundings compared within 0.5 meter with charted soundings.

Discrepancies with the chart and charted features are as follows:

- ◆ The <sup>5th</sup> charted ruins at  $41^{\circ}02'18''N$ ,  $073^{\circ}32'04''W$ , no longer exist. These ruins are north of the harbor barrier and pumping station in Stamford Harbor East Branch. According to local information, the area where the ruins are located was dredged when the harbor barrier and pumping station <sup>WERE</sup> ~~was~~ built. *CONCUR. DELETE FROM THE CHART.*

- ◆ The charted pile at 41°02'15"N, 073°35'31"W, no longer exists. According to local information this area was dredged when the shoreline was changed in the area. *CONCUR. DELETE*
- ◆ The mooring platform charted at 41°01'05"N, 073°32'18"W is now located 60 meters WSW of the charted position. Detached position 118 was taken on day 153. *CONCUR. CHART AS SHOWN ON THE PRESENT SURVEY*
- ◆ The charted wreck at 40°58'34"N, 073°34'21"W, still exists. The wreck was located using the echo sounder. A development was run using 5-meter line spacing on day 258, positions 3058-3079, to find the least depth. A <sup>FATHOMETER</sup> least depth of 6<sup>3</sup>~~2~~ ft. (~~18.9~~<sup>17.2</sup>m) was found. The line of hydrography from the development where the least depth was located is plotted on the final sounding plot. The remaining lines of the development were designated "NSP." The charted 61 ft. depth on the wreck should remain as charted. *CONCUR. SEE ALSO SECTION M.C.1. OF THE EVALUATION REPORT.* *AW015  
4452  
(SSV)*
- ◆ The charted wreck at 40°58'22"N, 073°33'5<sup>3</sup>~~2~~"W still exists. The wreck was located using the echo sounder. A development was run using 5-meter line spacing on day 258, positions 3080-3091, to find the least depth. A <sup>FATHOMETER</sup> least depth of ~~55.8~~<sup>56</sup> ft. (17m) was found. The line of hydrography from the development where the least depth was located is plotted on the final sounding plot. The remaining lines of the development were designated "NSP." The charted 54 ft. depth on the wreck should remain as charted. *CONCUR. SEE ALSO SECTION M.C.1. OF THE EVALUATION REPORT.* *AW015  
1749  
(SSV)*
- ◆ The area of the charted wreck at 40°58'36"N, 073°34'32"W, was searched using the echo sounder. No contact was encountered. A 100-meter radius development was run using 10-meter line spacing over the area. Nothing was found. This wreck should remain as charted. *CONCUR.*

The following uncharted items were found on this survey. None of them are considered dangers to navigation because of their proximity to shore: *CONCUR. CHART THE NINE FEATURES AS SHOWN ON THE PRESENT SURVEY.*

◆ DN/Pos.	Item	Surveyed Position
188/496	ruins	41°01'51.80"N 073°35'45. <sup>32</sup> 30"W
188/497	pile	41°01'51.31"N

188/501	pile ✓	073°35'45.40"W 41°01'34.79"N
188/502	pile ✓	073°35'57.23"W 41°01'24.17"N
188/503	pile ✓	073°36'00.59"W 41°01'16.10"N
192/549	pile ✓	073°36'02.28"W 41°01'00.98"N
194/608	pile ✓	073°34'05.09"W 41°01'30.17"N
194/609	<i>ROW OF</i> piles ✓	073°32'59.09"W 41°01'21.83"N
253/2862	ruins ✓	073°32'54.23"W 41°01'22.55"N 073°31'53.87"W

- ◆ An uncharted rock was located at 41°01'46.10"N, 073°32'24.41"W, and is 1.0 ft. (0.3m) above the water surface. Detached position 542 was taken on day 192. *CHARTED AS A LARGE ROCK WITH FLINT ROCK'S DAY BEACON NO CHANGE IN CHARTING*
- ◆ An uncharted rock was located at 41°01'04.11"N, 073°32'34.80"W, with a least depth of <sup>3.3</sup>~~2.9~~ ft. (0.9m). Detached position 780 was taken on day 199. *CONCUR CHART 2 RK*
- ◆ An uncharted rock was located at 41°00'29.51"N, 073°34'02.21"W, with a least depth of <sup>1.0</sup>~~3.2~~ ft. (1.2m). Detached position 1509 was taken on day 206. *DO NOT CONCUR. FALLS WITHIN FOUL LIMITS DELINEATED BY THE HYDROGRAPHER.*
- ◆ An uncharted rock was located at 41°01'51.03"N, 073°32'15.34"W, with a least depth of <sup>2.3</sup>~~0.7~~ ft. (0.2m). Detached position 2736 was taken on day 252. *CONCUR CHART A 2RK*

Sounding discrepancies with the chart are as follows:

NOT ON SMOOTH SHEET

<u>Charted Depth</u>	<u>Survey Location</u>	<u>Survey Depth</u>	<u>Charting Recommendation</u>
18ft	41°00'24"N ✓ 073°31'16"W	18.4 ft 5.6 m	Remain as charted <i>DO NOT CONCUR CHART PRESENT SURVEY DEPTHS</i>
26ft	41°00'25"N ✓ 073°32'13"W	25.6 ft 7.8 m	Chart Survey soundings <i>CONCUR</i>

7ft	41°00' <sup>49</sup> 36"N 073°32'02"W	12.8 ft 3.9 m	Chart Survey soundings <i>CONCUR</i>
9ft <i>RK</i> (1)	41°00'42"N 073°32'32" <sup>1.5</sup> W	<del>9.2</del> <sup>12.0</sup> ft 2.8 m	Remain as charted <i>CONCUR</i>
15ft (2)	41°00' <sup>8.2</sup> 39"N 073°32' <sup>49</sup> 49"W 50.0	19.7 ft 6.0 m	Remain as charted <i>CONCUR</i>
6ft	41°00'50"N 073°33'36"W	5.6 ft 1.7 m	Chart Survey soundings <i>CONCUR</i>
18ft (3)	41°00' <sup>3.6</sup> 34"N 073°33'40" <sup>1.2</sup> W	19.7 ft 6.0 m	Remain as charted <i>CONCUR</i>
17ft <i>RK</i> (2)	41°00'22"N 073°33'22" <sup>1.4</sup> W	22.3 ft 6.8 m	Remain as charted <i>CONCUR</i>
16ft <i>RK</i> (2)	41°00'04" <sup>5</sup> N 073°33'37"W	22.6 ft 6.9 m	Remain as charted <i>CONCUR</i>
13ft (2)	41°00'04" <sup>6</sup> N 073°33'45" <sup>6</sup> W	15.1 ft 4.6 m	Remain as charted <i>CONCUR</i>
12ft (2)	41°00'02" <sup>1.3</sup> N 073°33'47" <sup>2</sup> W	16.0 ft 5.0 m	Remain as charted <i>CONCUR</i>
2ft (3)	41°00'02" <sup>2.5</sup> N 073°33'54" <sup>5.0</sup> W	4.9 ft 1.5 m	Remain as charted <i>CONCUR</i> .
12ft (3)	40°59'47"N 073°34'37"W	13.0 ft 4.0 m	Remain as charted <i>CONCUR</i> .
5ft	41°00'02" <sup>1.5</sup> N 073°35'24" <sup>5</sup> W	6.6 ft 2.0 m	Remain as <i>CONCUR</i> . UNKNOWN SOURCE. SEE SECTION M. A. B. OF THE EVAL. REPT.
5ft (1)	41°01'39"N 073°31'55" <sup>6</sup> W	5.9 ft 1.8 m	Remain as charted <i>CONCUR</i>
6ft	41°01'26"N 073°32'00" <sup>1.5</sup> W	7.0 ft 2.2 m	Remain as <i>DA NOT CONCUR</i> . CHART PRESENT SURVEY DEPTHS

- (1) BROUGHT FORWARD FROM H-5222 TO SUPPLEMENT THE PRESENT SURVEY  
 (2) BROUGHT FORWARD FROM H-5142 WD TO SUPPLEMENT THE PRESENT SURVEY  
 (3) BROUGHT FORWARD FROM H-5402a TO SUPPLEMENT THE PRESENT SURVEY

4ft	41°01'22 <sup>1.5</sup> "N 073°32'03"W	7.2 ft 2.2 m	Remain as <i>DO NOT CONCUR.</i> charted <i>CHART PRESENT</i> <i>SURVEY DEPTHS.</i>
2ft (1)	41°00'51"N 073°32'45"W	7.2 ft 2.2 m	Remain as charted <i>CONCUR</i>
26ft <i>Rk</i> (2)	40°58'12 <sup>4.2</sup> "N 073°32'51 <sup>48.6</sup> "W	30.5 ft 9.3 m	Remain as charted <i>CONCUR</i>
57ft	40°58'29"N 073°33'02"W	62.0 ft 18.9 m	Remain as <i>DO NOT CONCUR</i> charted <i>CHART PRESENT</i> <i>SURVEY SOUNDINGS</i>

An uncharted 45.3 ft. (13.8m) sounding was located during main scheme hydrography at 41°00'07"N, 073°32'00"W. A development was run at 25-meter line spacing to determine the least depth. This sounding should be charted. This sounding is within the 60 foot depth curve and is not considered a danger to navigation. *CONCUR*

An uncharted 2.3 ft. (0.7m) sounding was located during main scheme hydrography at 41°01'24"N, 073°32'19"W. The main scheme hydrography in the area was reduced to 50-meter line spacing. This sounding should be charted. This sounding is within the charted six-foot depth curve and is not considered a danger to navigation. *CONCUR*

The uncharted 2.3 ft (0.7m) and the 0.7ft (0.2m) soundings at 41°01'33"N, 073°32'30" are inserts from a crossline at the position of a charted rock which was located by detached position on this survey. *CONCUR*

The charted shoal known as "The Cows," at 41°00'27"N, 073°31'24"W, was developed using 25-meter line spacing. A least depth of 5.6 ft. (1.7m) was found. The charted 2<sup>1</sup> and 5 foot soundings should be retained. *CONCUR. SEE SECTION M. 2.2. OF THE EVALUATION REPORT*

The charted shoal at 41°00'44"N, 073°33'12"W, was developed using 25-meter line spacing. A least depth of 12.9 ft. (3.4m) was found. The charted 3, 4, and 6 foot soundings should be retained. *CONCUR SEE SECTION M. 2.2. OF THE EVALUATION REPORT.*

The charted shoal at 41°00'50"N, 073°33'18"W, was developed at 25-meter line spacing. A least depth of 6.2 ft. (1.9m) was located. The charted 5 and 6 foot soundings should be retained. *CONCUR. SEE ALSO SECTION M. 2.2. OF THE EVALUATION REPORT.*

The charted shoal at 41°01'33"N, 073°32'00"W, was developed at 25-meter line spacing. A least depth of ~~3.5~~<sup>3.3</sup> ft. (1.0<sup>9</sup>m) was located. Representative soundings from this survey should supersede the 5 foot charted soundings. *Concur*.

The main scheme hydrography over the charted shoal at 41°01'12"N, 073°33'03"W, was reduced to 50-meter line spacing. A least depth of ~~2.3~~<sup>2.3</sup> ft. (0.7<sup>3</sup>m) was located. Soundings from this survey should supersede charted soundings. *Concur*

The charted shoal at 41°01'12"N, 073°32'03"W, was developed using 25-meter line spacing. A least depth of ~~2.9~~<sup>3.3</sup> ft. (0.9<sup>9</sup>m) was located. Soundings from this survey should supersede charted soundings. *Concur*

Several charted rocks could not be identified because of the numerous rocks located within the survey limits. The hydrographer recommends that all charted rocks remain as charted. *Concur*

#### P. ADEQUACY OF SURVEY

This survey is complete and adequate to supersede all prior surveys within the common area.

#### Q. AIDS TO NAVIGATION

There are forty-four floating aids and seven non-floating aids to navigation in the survey area. These aids were compared with the USCG Light List, Volume I, Atlantic Coast, 1994.

The buoys located in Stamford Harbor West Branch and Stamford Harbor have been renumbered except for red nun buoy "2" and green gong buoy "1" located at the entrance to Stamford Harbor.

Detached positions were taken on all aids to navigation. Comparisons between the surveyed position and the charted locations are noted below. Position numbers have been noted in parentheses after "Surveyed Position". When the buoy number observed differed from the number charted, the charted number was also listed.



↑  
Stamford Harbor West Branch red nun buoy "10" (L. L. No. 25320)  
Charted as "20"  
Light List Published Position - not listed  
Surveyed Position (103) - 41°02'16.16"N, 073°32'38.02"W  
50 meters NW of charted position.

Stamford Harbor West Branch green can buoy "9" (L. L. No. 25315)  
Charted as "19"  
Light List Published Position - not listed  
Surveyed Position (104) - 41°02'09.90"N, 073°32'37.26"W  
20 meters S of charted position.

Stamford Harbor West Branch green can buoy "7" (L. L. No. 25310)  
Charted as "17"  
Light List Published Position - not listed  
Surveyed Position (105) - 41°02'02.52"N, 073°32'34.82"W  
20 meters SW of charted position.

↑  
Stamford Harbor West Branch red nun buoy "6" (L. L. No. 25305)  
Charted as "16"  
Light List Published Position - not listed  
Surveyed Position (106) - 41°01'57.25"N, 073°32'31.10"W  
Agrees with charted position.

Stamford Harbor West Branch green can buoy "5" (L. L. No. 25300)  
Charted as "15"  
Light List Published Position - not listed  
Surveyed Position (107) - 41°01'54.69"N, 073°32'31.76"W  
Agrees with charted position.

Stamford Harbor West Branch red nun buoy "4" (L. L. No. 25295)  
Charted as "14"  
Light List Published Position - not listed  
Surveyed Position (108) - 41°01'54.86"N, 073°32'28.68"W  
Agrees with charted position.

↑  
Stamford Harbor West Branch green can buoy "3" (L. L. No. 25290)  
Charted as "13"  
Light List Published Position - not listed  
Surveyed Position (109) - 41°01'51.53"N, 073°32'26.18"W  
30 meters SW of charted position.

Stamford Harbor West Branch red nun buoy "2" (L. L. No. 25280)

Charted as "12"

Light List Published Position - not listed

Surveyed Position (110) - 41°01'51.03"N, 073°32'21.70"W

20 meters W of charted position.

Stamford Harbor West Branch green can buoy "1" (L. L. No. 25275)

Charted as "11"

Light List Published Position - not listed

Surveyed Position (111) - 41°01'47.40"N, 073°32'19.40"W

30 meters SW of charted position.

Stamford Harbor red nun buoy "12" (L. L. No. 25265)

Charted as "10"

Light List Published Position - not listed

Surveyed Position (112) - 41°01'46.52"N, 073°32'13.14"W

30 meters S of charted position.

Stamford Harbor green can buoy "11" (L. L. No. 25260)

Charted as "9"

Light List Published Position - not listed

Surveyed Position (113) - 41°01'40.74"N, 073°32'15.77"W

120 meters S of charted position.

Stamford Harbor red nun buoy "10" (L. L. No. 25255)

Charted as "8"

Light List Published Position - not listed

Surveyed Position (114) - 41°01'34.32"N, 073°32'12.33"W

20 meters S of charted position.

Stamford Harbor green can buoy "9" (L. L. No. 25250)

Charted as "7"

Light List Published Position - not listed

Surveyed Position (115) - 41°01'29.33"N, 073°32'16.16"W

100 meters S of charted position.

Stamford Harbor green can buoy "7" (L. L. No. 25545)

Charted as "5"

Light List Published Position - not listed

Surveyed Position (116) - 41°01'19.92"N, 073°32'16.09"W

30 meters SW of charted position.

Stamford Harbor red nun buoy "6" (L. L. No. 25240)  
Charted as "4"  
Light List Published Position - not listed  
Surveyed Position (117) - 41°01'10.58"N, 073°32'10.93"W  
30 meters S of charted position.

Stamford Harbor red nun buoy "2" (L. L. No. 25205)  
Light List Published Position - not listed  
Surveyed Position (119) - 41°00'44.55"N, 073°32'04.59"W  
Agrees with charted position.

Stamford Harbor green gong buoy "1" (L. L. No. 25200)  
Light List Published Position - not listed  
Surveyed Position (120) - 41°00'41.00"N, 073°32'18.48"W  
80 meters SE of charted position.

Cos Cob Harbor red nun buoy "12" (L. L. No. 25465)  
Light List Published Position - not listed  
Surveyed Position (243) - 41°01'42.68"N, 073°35'40.80"W  
30 meters SE of charted position.

Cos Cob Harbor green can buoy "13" (L. L. No. 25470)  
Light List Published Position - not listed  
Surveyed Position (244) - 41°01'42.20"N, 073°35'42.75"W  
20 meters S of charted position.

Cos Cob Harbor red nun buoy "10" (L. L. No. 25455)  
Light List Published Position - not listed  
Surveyed Position (245) - 41°01'23.75"N, 073°35'40.10"W  
30 meters SSE of charted position.

Cos Cob Harbor green can buoy "11" (L. L. No. 25460)  
Light List Published Position - not listed  
Surveyed Position (246) - 41°01'22.96"N, 073°35'41.70"W  
20 meters SSE of charted position.

Cos Cob Harbor green can buoy "9" (L. L. No. 25450)  
Light List Published Position - not listed  
Surveyed Position (247) - 41°01'14.76"N, 073°35'44.50"W  
20 meters E of charted position.

Cos Cob Harbor red nun buoy "8" (L. L. No. 25445)

Light List Published Position - not listed

Surveyed Position (248) - 41°01'11.31"N, 073°35'43.81"  
30 meters SE of charted position.

Cos Cob Harbor green can buoy "7" (L. L. No. 25435)

Light List Published Position - not listed

Surveyed Position (249) - 41°01'03.00"N, 073°35'49.03"W  
30 meters SE of charted position.

Cos Cob Harbor Jake Reef red spar buoy (L. L. No. 25440)

Light List Published Position - not listed

Surveyed Position (250) - 41°00'54.61"N, 073°35'48.42"W  
20 meters E of charted position.

Cos Cob Harbor green can buoy "5" (L. L. No. 25430)

Light List Published Position - not listed

Surveyed Position (251) - 41°00'51.42"N, 073°36'04.25"W  
20 meters SE of charted position.

Greenwich Cove green can buoy "1" (L. L. No. 25415)

Light List Published Position - not listed

Surveyed Position (253) - 41°00'46.74"N, 073°34'52.41"W  
Agrees with charted position.

Greenwich Point red spar buoy "2GP" (L. L. No. 25400)

Light List Published Position - not listed

Surveyed Position (254) - 41°00'37.52"N, 073°34'59.68"W  
20 meters NW of charted position.

Greenwich Point green spar buoy "1GP" (L. L. No. 25395)

Light List Published Position - not listed

Surveyed Position (255) - 41°00'38.39"N, 073°34'58.00"W  
70 meters NW of charted position.

Greenwich Point green spar buoy "3GP" (L. L. No. 25405)

Light List Published Position - not listed

Surveyed Position (256) - 41°00'34.47"N, 073°34'55.00"W  
110 meters NW of charted position.

Greenwich Point red spar buoy "4GP" (L. L. No. 25410)

Light List Published Position - not listed

Surveyed Position (257) - 41°00'33.38"N, 073°34'57.28"W

60 meters NW of charted position.

Greenwich Cove red nun buoy "2" (L. L. No. 25390)

Light List Published Position - not listed

Surveyed Position (258) - 41°00'32.10"N, 073°35'21.24"W

Agrees with charted position.

Greenwich Cove Finch Rock green spar buoy (L. L. No. 25385)

Light List Published Position - not listed

Surveyed Position (259) - 41°00'31.48"N, 073°35'30.00"W

40 meters SE of charted position.

Greenwich Cove Sugar Boat red spar buoy (L. L. No. 25380)

Light List Published Position - 41°00.1'N, 073°35.4'W

Surveyed Position (260) - 41°00'11.09"N, 073°35'25.93"W

60 meters NNW of charted position.

Little Captain Island E. Reef green lighted gong buoy "1" (L. L. No. 25330)

Light List Published Position - 40°59.6'N, 073°35.8'W

Surveyed Position (262) - 40°59'35.98"N, 073°35'51.47"W

Agrees with charted position.

Flat Neck Pt. Shoal red nun buoy "2" (L. L. No. 25325)

Light List Published Position - 40°59.7'N, 073°35.5'W

Surveyed Position (263) - 40°59'44.04"N, 073°35'29.61"W

20 meters SW of charted position.

Twenty-six Foot Spot red lighted bell buoy "32A" (L. L. No. 21380)

Light List Published Position - 40°58.1'N, 073°32.8'W

Surveyed Position (439) - 40°58'05.53, 073°32'48.84"W

50 meters S of charted position.

Woolsey Reef red nun buoy "34" (L. L. No. 21395)

Light List Published Position - not listed

Surveyed Position (121) - 40°59'56.30"N, 073°33'54.05"W

Agrees with charted position.

The Cows red lighted buoy "32" (L. L. No. 21365)

Light List Published Position - not listed

Surveyed Position (122) - 41°00'12.74"N, 073°31'25.62"W

Agrees with charted position.

The following are charted and non-charted buoys which are not listed in the U. S. Coast Guard Light List and are privately maintained:

Red nun buoy "DCY2"

Surveyed Position (264) - 41°00'58.55"N, 073°32'56.08"W

Agrees with charted position.

Green spar buoy "DCY1"

Surveyed Position (265) - 41°01'06.37"N, 073°32'52.78"W

not charted

white nun buoy, blue ring, "CGA"

Surveyed Position (123) - 41°00'56.65"N, 073°32'19.10"W

not charted

white can buoy, orange ring, "SLOW NO WAKE"

Surveyed Position (124) - 41°01'11.18"N, 073°32'09.25"W

not charted

white can buoy, orange ring, "SLOW NO WAKE"

Surveyed Position (125) - 41°01'12.98"N, 073°32'17.53"W

not charted

Charted buoys that no longer exist are:

Spar buoy "1MR"

Charted Position - 41°01'54"N, 073°35'42"W

Spar buoy "2MR"

Charted Position - 41°01'56"N, 073°35'44"W

Green can buoy "1"

Charted Position - 41°00'43"N, 073°33'12"W

Non-floating aids to navigation which were located by detached position were:

Stamford Harbor Range Front Light (L. L. No. 25230)

Light List Published Position - 41°01.8'N, 073°32.3'W  
Surveyed Position (524) - 41°01'48.83"N, 073°32'15.12"W  
Agrees with charted position.

Stamford Harbor Range Rear Light (L. L. No. 25235)

Light List Published Position - not listed  
Surveyed Position (525) - 41°01'55.09"N, 073°32'15.70"W  
Agrees with charted position.

Stamford Harbor East Branch Channel Light "1" (L. L. No. 25270)

Light List Published Position - 41°02.1'N, 073°32.2'W  
Surveyed Position (528) - 41°02'06.71"N, 073°32'09.47"W  
Agrees with charted position.

Stamford Harbor West Branch Flint Rocks green Daybeacon (L. L. No. 25285)

Light List Published Position - 41°01.8'N, 073°32.4'W  
Surveyed Position (541) - 41°01'47.00"N, 073°32'24.25"W  
Agrees with charted position.

Stamford Harbor East Breakwater Light "4" (L. L. No. 25225)

Light List Published Position - 41°00.1'N, 073°32.1'W  
Surveyed Position (624) - 41°00'54.22"N, 073°32'06.44"W  
Agrees with charted position.

Stamford Harbor West Breakwater Light "3" (L. L. No. 25210)

Light List Published Position - 41°00.9'N, 073°32.3'W  
Surveyed Position (625) - 41°00'53.81"N, 073°32'17.32"W  
Agrees with charted position.

Stamford Harbor Ledge Obstruction Light (L. L. No. 25195)

Light List Published Position - 41°00.8'N, 073°32.6'W  
Surveyed Position (3694) - 41°00'49.12"N, 073°32'33.34"W  
Agrees with charted position.

The charted fixed aid located at 41°00'09.5"N, 073°32'00"W, no longer exists. There was no aid visible during main scheme hydrography in the area, nor was there probably ever a fixed aid at this location, which is charted on a wreck with a "PA"

notation, in 50 feet of water. This aid should be removed from the chart. The wreck was assigned as item 7682, which is discussed in section N. *NOT SHOWN ON THE LATEST EDITION OF CHARTS*

All of the aids located serve their intended purpose but the hydrographer recommends that they be re-charted using the surveyed positions. *Concur*

The cable and pipeline at 41°01'57"N, 073°35'33"W, no longer exists. This area was visually searched and there was no evidence on shore to indicate a cable or pipeline crossing. There were no overhead cables or pipelines visible. Pipeline crossing signs were located 120 meters south of the position listed above, one on the west shore and one on the east shore. Detached positions 494 and 495 were taken on these signs on day 188.

The overhead cables at 41°01'24"N, 073°35'39"W no longer exist. *NOT PRESENTLY CHARTED*

The cable area at 41°00'00"N, 073°33'00"W, should remain as charted. There were no signs located on shore to indicate any kind of overhead cable or submerged cables crossings, however cables were observed during main scheme hydrography in the area protruding from the water and on to the breakwater near Stamford Harbor Breakwater Light "3." *Concur*

All bridge and overhead cable clearances appeared correct as charted.

#### R. STATISTICS

<u>Description</u>	<u>Quantity</u>
Total Number of Positions	3774
Total Lineal Nautical Miles of Hydrography	305.3
Square Nautical Miles of Hydrography	17.0
Days of Production	37
Detached Positions	182
Bottom Samples	27
Tide Stations	1
Velocity Casts	7



S. MISCELLANEOUS

No anomalous currents or tides were observed during this survey.

Twenty-seven bottom samples were taken to verify bottom characteristics. The samples were not saved in accordance with the project instructions. The samples taken agreed with the charted characteristics. Oceanographic Log Sheet-M, NOAA Form 75-44 was submitted to the Smithsonian Institution in accordance with the project instructions. Bottom sample positions are plotted on the overlay and are listed on the copy of Oceanographic Log Sheet-M, NOAA Form 75-44, which may be found in the "Survey Separates." *FILED WITH THE ORIGINAL FIELD RECORDS*

The "assign fix" function of the HDAPS program QUICK EDIT, was used to assign position numbers to the beginning or end of a line as needed.

T. RECOMMENDATIONS

No additional field work was identified after office processing was completed. Specific recommendations are made on the Item Investigation Reports appended to this report, and in sections J., O., and Q.

U. REFERRAL TO REPORTS

<u>Title</u>	<u>Transmittal Information</u>
Descriptive Report to Accompany Survey H-10353	Atlantic Hydrographic Branch N/CG244, Norfolk, Va 23510 (1990)
Descriptive Report to Accompany Survey H-10348	Atlantic Hydrographic Branch N/CG244, Norfolk, Va 23510 (1990)
Descriptive Report to Accompany Survey H-10354	Atlantic Hydrographic Branch N/CG244, Norfolk, Va 23510 (1990)

Descriptive Report to  
Accompany Survey H-10542

Atlantic Hydrographic Branch  
N/CG244, Norfolk, Va 23510  
(1994)

Descriptive Report to  
Accompany Survey H-10565

Atlantic Hydrographic Branch  
N/CG244, Norfolk, Va 23510  
(1995)

Coast Pilot  
for OPR-B285-AHP

Atlantic Hydrographic Branch  
N/CG244, Norfolk, Va 23510  
(1994)

User Evaluation  
for OPR-B285-AHP

Atlantic Hydrographic Branch  
N/CG244, Norfolk, Va 23510  
(1994)

Submitted by:

Glenn D, Hendrix  
Launch Hydrographer-In-Charge

APPROVAL SHEET

BASIC HYDROGRAPHIC SURVEY

OPR-B285-AHP

AHP-10-5-94

H-10540

1994

This basic hydrographic survey was conducted in accordance with the project instructions for OPR-B285-AHP, the Hydrographic Manual, the Hydrographic Survey Guidelines, and the Field Procedures Manual. All reports were reviewed by Mr. Brian Link, Assistant Chief of Party. The descriptive report was reviewed and approved by LCDR James E. Waddell, Jr., Chief of Party. All supporting data and records were approved through Team Processing with the Atlantic Hydrographic Branch in Norfolk, Virginia.

This survey is a complete basic hydrographic survey for the area described in Section B of this report.



James E. Waddell, Jr.  
Lieutenant Commander, NOAA  
Chief, Atlantic Hydrographic Party

AWOIS NO: 4413 N/C

Item Description: Sounding, (34ft cleared to 32ft.)

Source: H5142/31WD

AWOIS Position: Lat - 40°59'16.35"N, Lon - 73°32'32.44"W

Required Investigation: S2, DI

Radius-75m

Charts Affected: 12367, 12365

INVESTIGATION

Date(s)/DN(s): September 16, 1994/259

Position Numbers: 3092-3217

2122-3

Launch Number: 1292

Investigation Used: ES

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A development using 5-meter line spacing was run over the required area in a north-south and an east-west direction. A least depth of <sup>2.4</sup>34.1 ft. (<sup>9.9</sup>10.4m), corrected for draft, velocity and ~~predicted~~ <sup>APPROVED</sup> tides, was located south-southeast of the AWOIS position.

CHARTING RECOMMENDATION

The hydrographer recommends that the 32 ft. cleared sounding be removed from the chart and a ~~32.4~~ <sup>2.4</sup>34.1 ft. sounding be charted at the recommended position below.

CONCUR

CONCUR

Recommended Position: <sup>2.739</sup>40°59'14.532"N, <sup>30.924</sup>073°32'31.364"W

Recommended Least Depth: <sup>32.4</sup>~~34.1~~ ft., (<sup>9.9m</sup>~~10.4m~~)

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

CHART A 32 RA

10/27

3-26-96

AWOIS NO: 6381

Item Description: OBSTRUCTION, (two visible piers)

Source: unknown

AWOIS Position: Lat - 41°01'20.35"N, Lon - 73°34'19.44"W

Required Investigation: VS, BD, DI - 25m swath.

Charts Affected: 12364, 12367 and 12368

INVESTIGATION

Date(s)/DN(s): June 10, 1994/161

Position Numbers: 324

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A visual search was performed over the required area, two piers were visible. These piers appear on the chart but do not appear on the T-Map. Detached positions were taken on these piers while conducting shoreline verification and are shown on the field sheet in red ink. A detached was taken to show that the survey launch was in the correct area.

CHARTING RECOMMENDATION

The hydrographer recommends that the piers be charted as shown on the ~~field sheet~~. *CONCUR PRESENT SURVEY*

Recommended Position:

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*CHART A PIER IN 41-01-22.360, 73-34-21.425*

*\* CHART A PIER IN 41-01-20.425, 73-34-22.700*

*\* CHARTED ON CHART 12368*

AWOIS NO: 6382

Item Description: OBSTRUCTION, (two visible piers)

Source: unknown

AWOIS Position: Lat - 41°01'21.35"N. Lon - 73°34'10.94"W

Required Investigation: VS, ED, DI - 25m swath.

Charts Affected: 12364, 12367 and 12368

---

INVESTIGATION

Date(s)/DN(s): July 11, 1994/192

Position Numbers: 547

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A visual search was performed over the area and two piers were visible. One of the piers appear on the T-Map, the other does not. A detached position was taken on the pier during shoreline verification that did not appear on the T-Map. The pier is shown on the field sheet in red ink. The pier that appeared on the T-Map was assigned a reference number during shoreline verification.

---

CHARTING RECOMMENDATION

The hydrographer recommends that the pier be charted at the recommended position. *Concur*

Recommended Position: 41°01'21.642"N, 073°34'11.207"W ✓

Recommended Least Depth: 2.5m above surface, corrected for predicted tides.

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*SHOWN ON CHART*

*12368*

AWOIS NO: 6383

Item Description: OBSTRUCTION, (visible pier)

Source: unknown

AWOIS Position: Lat - 41°01'09.35"N, Lon - 73°34'10.44"W

Required Investigation: VS, BD, DI - 25m swath.

Charts Affected: 12364, 12367 and 12368

INVESTIGATION

Date(s)/DN(s): June 10, 1994/161

Position Numbers: 326

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: The chart shows two piers in the area, but only one pier was visible. A visual search was performed over the required area at the site of the pier that no longer existed, from shore to one meter depth of water with fair visibility of the bottom. No ruins were found. A detached position was taken on the existing pier.

CHARTING RECOMMENDATION

The hydrographer recommends that the one pier be removed from the chart and the other pier be charted at the recommended position. *CONCUR*

Recommended Position: 41°01'09.168"N, 073°34'10.918"W

Recommended Least Depth: 2.5m above surface, corrected for predicted tides.

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*ADD PIER IN 41-01-09.168  
73-34-10.918*

AWOIS NO: 6384

Item Description: OBSTRUCTION. (visible pier)

Source: unknown

AWOIS Position: Lat - 41°01'06.35"N. Lon - 73°34'09.44"W

Required Investigation: VS, BD, DI - 25m swath.

Charts Affected: 12364, 12367 and 12368

INVESTIGATION

Date(s)/DN(s): June 10, 1994/161

Position Numbers: 327

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A visual search was performed for the pier, but there were no piers visible. A visual search was performed for ruins over the required area, from shore out to one meter depth of water with fair visibility of the bottom. Nothing was found. A detached position was taken to show that the launch was in the correct area.

CHARTING RECOMMENDATION

The hydrographer recommends that the pier be removed from the chart. *CONCUR*

Recommended Position:

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*DELETE CHARTED PIER*



AWOIS NO: 6385

Item Description: OBSTRUCTION. (visible pier)

Source: unknown

AWOIS Position: Lat - 41°01'04.85"N, Lon - 73°34'08.44"W

Required Investigation: VS, BD, DI - 25m swath.

Charts Affected: 12364, 12367 and 12368

INVESTIGATION

Date(s)/DN(s): June 10, 1994/161

Position Numbers: 328

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: There was no pier visible in the area. A visual search was performed over the required area for ruins, from shore out to 1.2 meters depth of water with fair visibility of the bottom. Nothing was found. A detached position was taken to show that the launch was in the correct area. *SUMMARY IS INCORRECT FOR THIS AWOIS ITEM*

CHARTING RECOMMENDATION

The hydrographer recommends that the pier be removed from the chart. *DO NOT REMOVE. SEE SECTION N.1, OF THE EVALUATION REPORT*

Recommended Position:

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

AWOIS NO: 6386

Item Description: OBSTRUCTION, (two visible piers)

Source: unknown

AWOIS Position: Lat - 41°01'02.35"N, Lon - 73°33'42.44"W

Required Investigation: VS, BD, DI - 25m swath.

Charts Affected: 12364, 12367 and 12368

INVESTIGATION

Date(s)/DN(s): June 14, 1994/165

Position Numbers: 396

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A visual search was performed over the required area, no piers were visible. The visual search was performed at low tide with fair visibility of the bottom and no ruins were found in the area. A detached position was taken to show that the survey launch was in the correct area.

CHARTING RECOMMENDATION

The hydrographer recommends that the piers be removed from the chart. *Concur.*

Recommended Position:

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*12367, 2<sup>ND</sup> ED. Oct 19/96 - DELETE 2 PIERS*

*12368, 23<sup>RD</sup> ED. Nov 9/96 - PIERS HAVE BEEN DELETED*

AWOIS NO: 6387

Item Description: OBSTRUCTION, (three piers)

Source: unknown

AWOIS Position: Lat - 41°01'24.34"N, Lon - 73°33'18.44"W

Required Investigation: VS, BD, DI - 25m swath.

Charts Affected: 12364, 12367 and 12368

INVESTIGATION

Date(s)/DN(s): June 15, 1994/166

Position Numbers: 411

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A visual search was performed over the required area for the piers. Only one pier was visible. A visual search was performed at the sites of the two piers that no longer exist, with fair visibility of the bottom from shore out to one meter depth of water, no ruins were found. A detached position was taken on the existing pier.

CHARTING RECOMMENDATION

The hydrographer recommends that the two piers<sup>\*</sup> be removed from the chart and the other pier be charted at the recommended position. *Concur*

Recommended Position: 41°01'20.117"N, 073°33'14.471"W ✓

Recommended Least Depth: 3.6m above surface, corrected for predicted tides.

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

\* THE TWO PIERS ARE NOT PRESENTLY CHARTED.

AWOIS NO: 6388

Item Description: OBSTRUCTION, (12ft unverified grounding)

Source: H-5142/31WD

AWOIS Position: Lat - 41°00'38.35"N, Lon - 73°33'23.94"W

Required Investigation: ES Radius - 200m

Charts Affected: 12364, 12367 and 12368

---

INVESTIGATION

Date(s)/DN(s): June 7, 1994/158

Position Numbers: 266

Launch Number: 1292

Investigation Used: ES

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: The area was searched with the echo sounder. The rock was located and a detached position was taken.

---

CHARTING RECOMMENDATION

The hydrographer recommends that the 12ft sounding be removed from the chart and that an ~~11~~<sup>10</sup> ft. (3.3~~2~~<sup>2</sup>m) rock be charted at the recommended position.

*CONCOR*

Recommended Position: 41°00'37.97"N, 073°33'24.15"W

Recommended Least Depth: 11ft, (3.3m), corrected for tides and draft.

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*ADD 10 RX.*

\* Chart as only on Rock

AWOIS NO: 6389 ✓

Item Description: SOUNDING, (11ft. sounding)

Source: unknown

AWOIS Position: Lat - 41°00'28.35"N, Lon - 73°33'54.44"W

Required Investigation: ES Radius - 200m

Charts Affected: 12364, 12367 and 12368

-----  
INVESTIGATION

Date(s)/DN(s): June 6, 1994/157

Position Numbers: 128-242

Launch Number: 1292

Investigation Used: ES

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A development was run over the required area at 10-meter line spacing. A 10.8 ft.(3.3m) sounding was found near the AWOIS item position. A 5.6 ft.(1.7m) sounding and a 6.6 ft. (2.0m) sounding were found 35 meters and 50 meters northwest of the 10.8 ft.(3.3m) sounding. The area is covered with rocks and only the selected soundings and the shoalest insert were plotted on most of the lines. On some lines only the selected soundings were plotted because they and the inserts were deeper than the other soundings.

-----  
CHARTING RECOMMENDATION

The hydrographer recommends that the ~~10.8~~ ft.(3.3m), be removed from the chart and that the 5.6<sup>9</sup> ft.(1.7m) be charted. *11-FT SOUNDING CONCUR*

Recommended Position: Lat. 41°00'<sup>29.556</sup>~~28.975~~"N, Long. 073°33'<sup>54.667</sup>~~55.035~~"W \*

Recommended Least Depth: 5.6<sup>9</sup> ft, (1.7m), corrected for tides and draft. *LOWEST*

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*ADD GRK*

*OVER*

\* Recommend that swdy on a Rock be charted at pos 3650 + 5 (NW)  
the swds from this survey supersede the <sup>charted</sup> swds in  
the survey area.

AWOIS NO: 6390

(NOT ON BR or SS)

Item Description: SOUNDING, (11 ft sounding)

Source: unknown

AWOIS Position: Lat - 41°00'40.35"N, Lon - 73°33'18.44"W

Required Investigation: ES

Radius - 200m

Charts Affected: 12368, 12364

INVESTIGATION

Date(s)/DN(s): June 8, 1994/159

September 21, 1994/264

Position Numbers: 268-321

Launch Number: 1292

3644-3693

Investigation Used: ES

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A development was run over the required area at 10-meter line spacing. A 10.8 ft.(3.3m) sounding, corrected for draft, velocity and tides, was found 60 meters north-northeast of the AWOIS position. A small charted shoal made up of rocks is located within the 200-meter search radius, northeast of the AWOIS position. The soundings from this shoal appear on the echogram from the development and are shoaler than the AWOIS item.

CHARTING RECOMMENDATION

The hydrographer recommends that the 11 ft.(3.4m) sounding remain as charted. *Concur*

Recommended Position: 41°00'40.350"N, 073°33'18.440"W

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*10m*  
*7-15-96*



AWOIS NO: 6391

Item Description: OBSTRUCTION, (two piles and pier ruin)

Source: CL903/59--COE Permit

AWOIS Position: Lat - 41°01'32.34"N. Lon - 73°33'03.94"W

Required Investigation: VS, BD, DI Radius - 50m

Charts Affected: 12364, 12367 and 12368

INVESTIGATION

Date(s)/DN(s): June 7, 1994/158

Position Numbers: 267

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: The area was visually searched and two piles were located. A detached position was taken on one of the piles, to avoid congestion on the field sheet the other pile was not located. The survey launch could not search the area of the ruins because of boats moored to floating piers covering the area of the pier ruins.

CHARTING RECOMMENDATION

The hydrographer recommends that the pile<sup>\*</sup> with the detached position be charted at the recommended position and that the second pile be charted 20 southeast of the first pile. The pier ruins should be removed from the chart. *CONCUR*

Recommended Position: 41°01'32.513"N, 073°33'04.402"W

Recommended Least Depth: <sup>2.3 2.8</sup> ~~17~~ft. (~~5.2~~m) above ~~surface~~, corrected for predicted tides. (both piles)

*APPROVED*

*MHW per Rick Whitfield*

*AHB*

*10/16/97*

\*\*\*\*\*  
COMPILATION NOTES

Chart

Applied As

*\* NO CHANGE IN CHARTING IS RECOMMENDED*

AWOIS NO: 6392 ✓

Item Description: SOUNDING, (8ft. rep.)

Source: CL1485/74--USPS

AWOIS Position: Lat - 41°01'43.34"N, Lon - 73°32'58.44"W

Required Investigation: ES Radius -

Charts Affected: 12364, 12367 and 12368

INVESTIGATION

Date(s)/DN(s): September 9, 1994/252

Position Numbers: 2836-2857

Launch Number: 1292

Investigation Used: ES

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: An echo sounder development using 50-meter line spacing, was run over the area. A least depth of 7.5 ft., (2.3m), was found in the navigable area, with shoaler soundings near shore.

CHARTING RECOMMENDATION

The hydrographer recommends that the 8ft. rep. note be removed from the chart and that the present survey soundings be charted.

*CONCUR*

Recommended Position:

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*Handwritten scribbles and numbers: 3-25-96*

AWOIS NO: 6393 ✓

Item Description: OBSTRUCTION, (13ft unverified grounding)

Source: H-5142/31WD

AWOIS Position: Lat - 41°00'39.85"N, Lon - 73°32'26.44"W

Required Investigation: ES Radius - 200m

Charts Affected: 12364, 12368

INVESTIGATION

Date(s)/DN(s): June 10, 1994/161, June 14, 1994/165  
July 13, 1994/194

Position Numbers: 329-346, 350-393 Launch Number: 1292  
397-407, 601-602

Investigation Used: ES

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: An echo sounder development was run at 10-meter line spacing on the days listed above. A 12.1 ft.(3.7m) sounding was located on the third out of position 405, eighty meters north of the AWOIS item position.

CHARTING RECOMMENDATION

The hydrographer recommends that the 13 ft. (4m) sounding be removed from the chart and the ~~12.1~~ ft. (~~3.7~~m) sounding be charted.

*12.1 4.4 CHART PRESENT SURVEY DEPTHS*

Recommended Position: 41°00'42.651"N, 073°32'26.318"W

Recommended Least Depth: 12.1 ft. (3.7m) corrected for tide predicted tides.

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

AWOIS NO: 6394 ✓

Item Description: BLUE HUMMER (submerged dangerous wreck)

Source: H-5142/31WD

AWOIS Position: Lat - 41°00'45.53"N, Lon - 73°32'27.94"W

Required Investigation: BD, DI, SD Radius -150m

Charts Affected: 12364, 12368

INVESTIGATION

Date(s)/DN(s): June 14, 1994/165

Position Numbers: 395

Launch Number: 1292

Investigation Used: ES

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: The wreck was located using the echo sounder. The survey launch went to the area of the awois position and idled over and around the position. A bottom drag was not attempted because of the numerous rocks on the bottom.

CHARTING RECOMMENDATION

The hydrographer recommends that the "PD" be removed from the chart and the wreck remain as charted *concur*

Recommended Position: 41°00'45.005"N, 073°32'28.248"W

Recommended Least Depth: <sup>11.8</sup>~~9.8~~ ft., (<sup>6</sup>~~3.0~~m), corrected for predicted tides and draft.

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*CHART A-12 WK.*

AWOIS NO: 6395 ✓

Item Description: Submerged Wreck

Source: CL1037/69--USPS

AWOIS Position: Lat - 41°01'18.84"N, Lon - 73°32'27.94"W

Required Investigation: VS, BD, DI, SD Radius-200m

Charts Affected: 12364, 12368

INVESTIGATION

Date(s)/DN(s): June 14, 1994/165

Position Numbers: 349

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A visual search was performed over the required area with fair visibility of the bottom. Numerous rocks covered the bottom, but nothing was found to indicate a wreck. According to Mr. Fred Hirshhorn, a local resident, phone 203-637-0451, The wreck was salvaged in 1970.

CHARTING RECOMMENDATION

The hydrographer recommends that the wreck be removed from the chart. *Concur*

Recommended Position:

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*DELETE (H) ED.*

AWOIS NO: 6396 ✓

Item Description: Obstruction, (dangerous submerged rock)

Source: H-1698/1886

AWOIS Position: Lat - 41°02'00.34"N, Lon - 73°32'35.94"W

Required Investigation: VS, BD, DI Radius-100m

Charts Affected: 12364, 12368

INVESTIGATION

Date(s)/DN(s): May 31, 1994/151

Position Numbers: 96-98

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A visual search was performed over the required area at low tide. An area foul with rocks was located and detached positions were taken to define the area.

CHARTING RECOMMENDATION

The hydrographer recommends that an area foul with rocks be charted at the recommended positions listed below. *Concur*

Recommended Position: 41°02'00.57"N, 073°32'36.15"W (pos. 96)  
41°02'01.92"N, 073°32'35.05"W (pos. 97)  
41°02'02.49"N, 073°32'36.61"W (pos. 98)

Recommended Least Depth: awash (pos. 96)  
2.6ft (0.8m) above surface, (pos. 97)  
1.3ft (0.4m) above surface, (pos. 98)

All of the least depths are corrected for predicted tides.

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*POD*

AWOIS NO: 6397 ✓

Item Description: Sounding, (submerged rock covered 12.9ft)

Source: BP-128897--4/84, COE - *NOT AVAILABLE DURING OFFICE PROCESSING.*

AWOIS Position: Lat - 41°02'06.84"N, Lon - 73°32'37.44"W

Required Investigation: BD, DI Radius-50m

Charts Affected: 12364, 12368

INVESTIGATION

Date(s)/DN(s): September 18, 1994/261

Position Numbers: 3364 - 3404

Launch Number: 1292

Investigation Used: ES

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A development was run over the required area at 5 meter line spacing. There was no rock located. A least depth of 4.3 ft (1.3m) was located 55 meters south of the awois position.

CHARTING RECOMMENDATION

The hydrographer recommends that the 12.9ft rock remain as charted and that the least depth found be charted at the recommended position listed below. *CONCUR*

Recommended Position: 41°02'05.<sup>39</sup>~~00~~"N, 073°32'<sup>38.36</sup>~~37.50~~"W

Recommended Least Depth: <sup>3.9</sup>~~4.3~~ ft (<sup>2</sup>~~1.3~~m) corrected for draft, velocity and ~~predicted~~ tides. *APPROVED*

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*12364  
J-26-95*

AWOIS NO: 6398 ✓

Item Description: Pier Ruins

Source: unknown

AWOIS Position: Lat - 41°02'02.34"N, Lon - 73°32'40.44"W

Required Investigation: VS, BD, DI 25m swath

Charts Affected: 12364, 12368

---

#### INVESTIGATION

Date(s)/DN(s): May 31, 1994/151

Position Numbers: 99, 100

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: There was a floating pier at the AWOIS position moored to five piles. There were five piles next to the AWOIS position in the same arrangement as the piles with the floating pier. They appear to be mooring piles for a floating pier. A visual search was performed over the required area from shore out to 1 meter depth of water with fair visibility of the bottom, no ruins were found.

---

#### CHARTING RECOMMENDATION

The hydrographer recommends that the ruins be removed from the chart and that a pier and piles be charted at position 99, piles be charted at position 100. *Concur*

Recommended Position: 41°02'02.10"N, 073°32'40.38"W (PN 99)  
41°02'01.74"N, 073°32'39.49"W (PN 100)

Recommended Least Depth: 15ft (4.6m) above surface, corrected for predicted tides.

\*\*\*\*\*

#### COMPILATION NOTES

Chart

Applied As

*CHART AS SHOWN ON THE  
PRESENT SURVEY*



AWOIS NO: 6399 ✓

Item Description: Obstruction, (two piles)

Source: BP-84532--1972, COE

AWOIS Position: Lat - 41°01'56.34"N, Lon - 73°32'30.44"W

Required Investigation: VS, BD, DI Radius-50

Charts Affected: 12364, 12368

INVESTIGATION

Date(s)/DN(s): June 30, 1994/181

Position Numbers: 489 and 490

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A visual search was performed over the required area. Two piles and a three pile dolphin were located. The two piles appear to be the end of a wooden wavebreaker in ruins, the three pile dolphin is used for boat mooring.

CHARTING RECOMMENDATION

The hydrographer recommends that the charted piles be removed from the chart and that a dolphin symbol be charted at the position of the dolphin and that piles be charted at the position of the piles. *Concur*

Recommended Position: 41°01'57.11"N, 073°32'29.73"W, (two piles)  
41°01'57.81"N, 073°32'30.39"W, (dolphin)

Recommended Least Depth: 3.5m above surface, (two piles), 4.1m above surface, (dolphin) - both corrected for predicted tides.

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*gwn  
5-25-96*

\* Recommend the 5 ft boundary remain as charted  
because the hydrographer did not run a center  
line of hydro down the channel.

AWOIS NO: 6400 ✓

Item Description: Sounding, (5ft. rep.)

Source: CL1421/81--USPS

AWOIS Position: Lat - 41°02'08.34"N, Lon - 73°32'24.44"W

Required Investigation: ES Radius-

Charts Affected: 12364, 12368

INVESTIGATION

Date(s)/DN(s): September 10, 1994/253

Position Numbers: 2955-2967 Launch Number: 1292

Investigation Used: ES

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: An echo sounder development using 50-meter line spacing was run over the area. The depths ranged from 7.8 ft (2.4m) to 10.8 ft (3.3m) with shoaler soundings near shore.

CHARTING RECOMMENDATION

The hydrographer recommends that the 5ft. rep. be removed from the chart and that the present survey soundings be charted.

*DO NOT CONCUR. SEE SECTION N. 2 OF THE EVALUATION REPORT.*

Recommended Position:

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*1214  
3-28-96*

AWOIS NO: 6401 ✓

Item Description: Sounding, (6.5ft and 7.5ft rep.)

Source: CL505/68--RU/HE

AWOIS Position: Lat - 41°02'07.34"N, Lon - 73°32'02.44"W

Required Investigation: ES Radius-

Charts Affected: 12364, 12368

INVESTIGATION

Date(s)/DN(s): September 9, 1994/252

Position Numbers: 2737-2752

Launch Number: 1292

Investigation Used: ES

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: This item is located at Yacht Haven East in Stamford Harbor. Lines of hydrography were run between the piers of the marina. The depths ranged from 3.3 ft (1.0m) to 6.2 ft (1.9m). Hydrography could not be run in the boat slips because of boats moored in them.

CHARTING RECOMMENDATION

The hydrographer recommends that the 6.5ft and the 7.5ft be removed from the chart and that the present survey soundings be charted. *CONCUR*

Recommended Position:

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*REVISE 6 1/2 FT rep AND 7 1/2 FT rep  
TO 5 FT rep. RESPECTIVELY*

*3-26-06*

AWOIS NO: 6402 ✓

Item Description: Visible wreck

Source: CL733/71--USPS

AWOIS Position: Lat - 41°02'<sup>25</sup>~~05~~.84"N, Lon - 73°31'52.94"W ✓

Required Investigation: VS, BD, BI Radius-50m

Charts Affected: 12364, 12368

INVESTIGATION

Date(s)/DN(s): June 2, 1994/153

Position Numbers: 126

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A visual search was performed over the required area with fair visibility of the bottom from shore to out to 1 meter depth of water. Nothing was found.

CHARTING RECOMMENDATION

The hydrographer recommends that the wreck <sup>ED</sup> be removed from the chart. *CONCUR*

Recommended Position:

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*JE/MA  
3-26-96*

AWOIS NO: 6403 ✓

Item Description: Visible wreck

Source: unknown

AWOIS Position: Lat - 41°02'29.34"N, Lon - 73°31'47.44"W

Required Investigation: VS, BD, BI Radius-50m

Charts Affected: 12364, 12368

INVESTIGATION

Date(s)/DN(s): June 2, 1994/153

Position Numbers: 127

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A visual search was performed over the required area with fair visibility of the bottom from shore out to 1 meter depth of water. Nothing was found.

CHARTING RECOMMENDATION

The hydrographer recommends that the wreck be removed from the chart. *Concur* *CONCUR* *ED* ↑

Recommended Position:

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*12364*  
*12368*

AWOIS NO: 6405 ✓

Item Description: Sounding, (6ft rep.)

Source: CL1311/70--COE permit

AWOIS Position: Lat - 41°01'44.34"N, Lon - 73°31'56.44"W

Required Investigation: ES Radius

Charts Affected: 12364, 12368

INVESTIGATION

Date(s)/DN(s): August 2, 1994/214

Position Numbers: 2439-2442

Launch Number: 1292

Investigation Used: ES

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: Only a center line into the charted pier, with the 6 ft. rep note, could be run because of foul areas on either side. A least depth of 6.6 ft (2.0m) was located within the the charted area.

CHARTING RECOMMENDATION

The hydrographer recommends that the charted 6ft. rep. be revised to 6 ft (2.0m) rep. 1994. *RETAIN AS CHARTED*

Recommended Position:

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*100M  
3-26-96*

AWOIS NO: 6406

(N/C Superseded by H-10565)

Item Description: Obstruction, (wreckage)

Source: H-5219/32WD

AWOIS Position: Lat - 41°00'34.85"N, Lon - 73°31'25.93"W

Required Investigation: VS, BD, DI Radius-75m

Charts Affected: 12364, 12368

INVESTIGATION

Date(s)/DN(s): May 31, 1994/151

Position Numbers: 80

Launch Number: 1292

Investigation Used: ES

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: The wreckage was located using the echo sounder. No chain drag was attempted because the bottom over the area is covered with rocks. There were no divers available to investigate the trace of the wreckage from the echo sounder. A development of 5 meter line spacing run over the area on days 151, (positions 81-94), and 194, (573-600). A detached position was taken on day 151, (pos. ~~84~~ 80).

CHARTING RECOMMENDATION

The hydrographer recommends that the wreckage remain as charted. *Do NOT Correct*

Recommended Position: 41°00'35.155"N, 073°31'24.836"W ✓

Recommended Least Depth: 8.2 ft (2.5m) corrected for predicted tides.

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*DELETE "WRECKAGE" AND CHART AN 8 WK/5012*

*3-25-96*



AWOIS NO: 6407 ✓

Item Description: Obstruction, (visible pier)

Source: unknown

AWOIS Position: Lat - 41°01'11.84"N, Lon - 73°31'22.43"W

Required Investigation: VS, BD, DI 25m swath

Charts Affected: 12364, 12368

INVESTIGATION

Date(s)/DN(s): May 31, 1994/151

Position Numbers: 95

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A visual search was performed over the required area and there were no piers visible. The search was performed at low tide and there was not any signs of pier ruins.

CHARTING RECOMMENDATION

The hydrographer recommends that the pier be removed from the chart. *Concur*

Recommended Position:

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*15107*  
*3-28-96*

AWOIS NO: 6408 ✓

Item Description: Obstruction (pier ruins)

Source: unknown

AWOIS Position: Lat - 41°01'59.34"N, Lon - 73°31'19.43"W

Required Investigation: VS, BD, DI Radius-

Charts Affected: 12364, 12368

INVESTIGATION

Date(s)/DN(s): June 2, 1994

Position Numbers: 102

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A visual search was performed over the required area from shore out to 1 meter depth of water with fair visibility of the bottom. A line of rocks were found extending from near shore out to the detached position, with a pile laying on the bottom parallel to the rocks. The line of rocks was a possible foundation for a pier at one time.

CHARTING RECOMMENDATION

The hydrographer recommends that ruins be charted. *CONCUR*

Recommended Position: 41°01'59.432"N, 073°31'18.280"W

Recommended Least Depth: <sup>-1.3</sup> 2ft <sup>4</sup> - (0.7m) <sup>MLLW</sup> above surface, corrected for ~~predicted~~ tides.

*Approved*

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*PRESENTLY CHARTED AS  
PIER RUINS ON CHART 12368*

*3-25-96*

AWOIS NO: 6618

Item Description: Wreck

Source: H-5142WD/31

AWOIS Position: Lat - 41°00'08.35"N, Lon - 73°35'20.4<sup>4</sup>W

Required Investigation: VS, BD, DI Radius-75m

Charts Affected: 12364, 12367

INVESTIGATION

Date(s)/DN(s): May 23, 1994/143

Position Numbers: 29

Launch Number: 1292

Investigation Used: CD, ES

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A chain drag was attempted on day 143. A haul occurred on the first line of the drag. A development was performed on day 143, (positions 6-28), at 5-meter line spacing to fully define the wreck. The boat became stuck on top of the wreck and a detached position was taken at that point.

CHARTING RECOMMENDATION

The wreck should be recharted at the recommended position with the recommended least depth. *Correct*

Recommended Position: 41°00'08.76"N, 073°35'21.04"W

Recommended Least Depth: 0.3 ft. (0.1m) corrected for ~~predicted~~ <sup>APPROVED</sup> tides.

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*DELETE SUBMERGED WRECK*

*CHART A WRECK THAT BARES 1 FT @ MLLW*

AWOIS NO: 6620 *N/C*

Item Description: Submerged Dangerous Wreck

Source: H-5402A (1933)

AWOIS Position: Lat - 41°00'14.35"N, Lon - 73°35'17.44"W

Required Investigation: VS, BD, DI Radius-50m

Charts Affected: 12364, 12367

INVESTIGATION

Date(s)/DN(s): May 25, 1994/145

Position Numbers: 78

Launch Number: 1292

Investigation Used: ES

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: The wreck was located using the echo sounder. A development was run on day 145, (positions 30-75), at 5-meter line spacing to fully define the wreck.

CHARTING RECOMMENDATION

The wreck should be recharted at the recommended position with the recommended least depth. *Correct*

Recommended Position: 41°00'14.6<sup>2</sup>"N, 073°35'17.3<sup>1</sup>"W

Recommended Least Depth: 0.3<sup>7</sup> ft. (0.1<sup>- .1</sup>m) corrected for *APPROVED* ~~predicted~~ tides.

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*CHART AVISIBLE WRECK THAT BARES 1 FT AT MLLW*

*DNH  
3-25-96*

AWOIS NO: 6621 *dk*

Item Description: Sounding, (dredged to 9ft., 1966)  
(7 ft rep 1975)

Source: CL1295/66--COE permit  
CL1726/75--USPS

AWOIS Position: Lat - 41°00'30.35"N, Lon - 73°34'53.44"W

Required Investigation: ES Radius-

Charts Affected: 12364, 12367

INVESTIGATION

Date(s)/DN(s): August 4, 1994/216  
September 8, 1994/251

Position Numbers: 2598-2600 Launch Number: 1292  
2699-2705

Investigation Used: ES

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: The main scheme hydrography in the area was split to 50 meters. The depths ranged from 4.6 ft (1.4m) to 6.6 ft (2.0m).

CHARTING RECOMMENDATION

The hydrographer recommends that the charted 7 ft rep 1975 be removed from the chart and that the present survey soundings be charted. *REVISE THE NOTATION TO 5 FT REP 1994.*

Recommended Position:

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

AWOIS NO: 6629 *W/C*

Item Description: Sounding, (6ft. rep. 1967)

Source: CL260/67--COE

AWOIS Position: Lat - 41°01'00.35"N, Lon - 73°34'43.44"W

Required Investigation: ES Radius-

Charts Affected: 12364, 12367

INVESTIGATION

Date(s)/DN(s): July 25, 1994/206  
September 8, 1994/251

Position Numbers: 1620-1624 Launch Number: 1292  
2636-2649

Investigation Used: ES

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: The main scheme hydrography was split to 50 meters. The depths ranged from .33 ft (.1m) to 4.3 ft (1.3m) in the area.

CHARTING RECOMMENDATION

The hydrographer recommends that the <sup>2</sup>6ft. rep. <sup>1992</sup> be removed from the chart and that the present survey soundings be charted.  
*REVISE TO 1 FT REP. 1994*

Recommended Position:

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

\* see notes

AWOIS NO: 6635 *de*

Item Description: Obstruction, (piles)

Source: CL452/64--GPSI

AWOIS Position: Lat - 41°01'16.35"N, Lon - 73°35'41.44"W

Required Investigation: VS, BD, DI Radius-50m

Charts Affected: 12364, 12367

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#### INVESTIGATION

Date(s)/DN(s): June 30, 1994/181

Position Numbers: 488

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A visual search was performed and a three pile dolphin was located. The dolphin is used for boat mooring. A detached position was taken on the dolphin.

---

#### CHARTING RECOMMENDATION

The hydrographer recommends that the charted piles be removed from the chart and that a dolphin symbol be charted. *Concur*

Recommended Position: 41°01'16.58"N, 073°35'41.23"W ✓

Recommended Least Depth: 4.9m above surface, corrected for predicted tides.

\*\*\*\*\*

#### COMPILATION NOTES

Chart

Applied As



AWOIS NO: 6636 *SL*

Item Description: Obstruction, (visible pier)

Source: CL991/67--USPS

AWOIS Position: Lat - 41°01'16.35"N, Lon - 73°34'37.44"W

Required Investigation: VS, BD, DI Radius-25m swath

Charts Affected: 12364, 12367

INVESTIGATION

Date(s)/DN(s): May 25, 1994/145

Position Numbers: 79

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A visual search was conducted over the required area and there was no piers visible. According to local residents the area is bare at low tide and they informed us that there are no ruins. A detached position was taken to show that the launch was in the correct area.

CHARTING RECOMMENDATION

It is recommended that the pier be removed from the chart. *CONDR*

Recommended Position:

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*ALSO:*

*DELETE PIER RUINS IN 40-01-16N, 73-34-35W*

*PIER RUINS IN 40-01-17N, 73-34-38W*

*CONDR  
3-26-96*

AWOIS NO: 6637 N/C

Item Description: Obstruction, (pier in ruins)

Source: unknown

AWOIS Position: Lat - 41°01'21.35"N, Lon - 73°34'30.44"W

Required Investigation: VS, BD, DI Radius-25m swath

Charts Affected: 12364, 12367

INVESTIGATION

Date(s)/DN(s): June 15, 1994/166

Position Numbers: 412

Launch Number: 1292

Investigation Used: VS

Position Determined By: U. S. C. G. Beacon DGPS (Montauk Pt.)

Investigation Summary: A visual search was performed over the required area from shore out to 1 meter depth of water with fair visibility of the bottom. Nothing was found. The detached position above shows that the launch was in the correct area.

CHARTING RECOMMENDATION

The hydrographer recommends that the ruins be removed from the chart. *Correct*

*LINEUP*

Recommended Position:

Recommended Least Depth:

\*\*\*\*\*

COMPILATION NOTES

Chart

Applied As

*206  
3-23-96*



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL OCEAN SERVICE  
Office of Ocean and Earth Sciences  
Silver Spring, Maryland 20910

**TIDE NOTE FOR HYDROGRAPHIC SURVEY**

**DATE:** March 30, 1995

**HYDROGRAPHIC SECTION:** Atlantic

**HYDROGRAPHIC PROJECT:** OPR-B285

**HYDROGRAPHIC SHEET:** H-10540

**LOCALITY:** Connecticut, Long Island Sound, Shippan Point to  
Cos Cob Harbor

**TIME PERIOD:** May 23 - September 26, 1994

**TIDE STATION USED:** 846-8799 Long Neck Point, Ct.  
Lat.  $41^{\circ} 2.3'N$  Lon.  $73^{\circ} 28.8'W$

**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 2.64 ft.

**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 7.4 ft.

**REMARKS:** RECOMMENDED ZONING

Times are direct and apply a X1.02 range ratio to heights using  
Long Neck Point, Ct. (846-8799).

**Note:** Times are tabulated in Greenwich Mean Time.

*William M. Hudson*  
CHIEF, DATUMS SECTION



GEOGRAPHIC NAMES

Name on Survey

Page 1 of 2

A ON CHART NO. 1230, 1236, 1236A  
B ON PREVIOUS SURVEY NO.  
C ON U.S. QUADRANGLE MAPS  
D FROM LOCAL INFORMATION  
E ON LOCAL MAPS  
F P.O. GUIDE OR MAP  
G RANDOMLY  
H U.S. LIGHT LIST  
K

Name on Survey	A	B	C	D	E	F	G	H	K
BLUFF ISLAND	X		X						1
CEMETERY POINT			X						2
CONNECTICUT (title)	X		X						3
COOK POINT			X						4
COS COB	X		X						5
COS COB HARBOR	X		X						6
COVE ROCK	X		X						7
COWS, THE	X		X						8
DAVENPORT POINT	X		X						9
DIVING ISLAND	X		X						10
DOLPHIN COVE (pp1)	X		X						11
EAST BRANCH	X		X						12
ELIAS POINT	X		X						13
FINCH ROCK	X								14
FLATHEAD ROCKS	X		X						15
FLAT NECK POINT	X		X						16
FLINT ROCKS	X		X						17
GOOSE ISLAND	X		X						18
GRASS ISLAND	X		X						19
GREENWICH COVE	X		X						20
GREENWICH ISLAND	X		X						21
GREENWICH POINT	X		X						22
HARBOR LEDGE	X		X						23
HIGHWATER ROCK	X		X						24
INNER COVE ROCK	X		X						25

GEOGRAPHIC NAMES

Name on Survey

Page 2 of 2

A CHART NO. 12364  
12367, 12368, 12364  
B ON PREVIOUS SURVEY  
C ON U.S. QUADRANGLE  
MAPS  
D FROM LOCAL  
INFORMATION  
E ON LOCAL MAPS  
F P.O. GUIDE OR MAP  
G RAND McNALLY  
ATLAS  
H U.S. LIGHT LIST  
K

Name on Survey	A	B	C	D	E	F	G	H	K
JACK ISLAND	X		X						1
JAKE REEF	X								2
LONG ISLAND SOUND	X		X						3
LOWTHER POINT	X		X						4
MIANUS (pp1)	X		X						5
MIANUS RIVER	X		X						6
NEWFOUNDLAND REEF	X		X						7
OLD GREENWICH (pp1)	X		X						8
PECK POINT	X		X						9
PELICAN ISLAND	X		X						10
RHODE ISLAND ROCKS	X		X						11
RIPPOWAM RIVER	X		X						12
RIVERSIDE (pp1)	X		X						13
SALT ROCK	X		X						14
SHIPPAN POINT	X		X						15
SOUTH END (pp1)	X		X						16
SOUTH REEF	X								17
STAMFORD	X		X						18
STAMFORD HARBOR	X		X						19
TODD POINT	X		X						20
TODD ROCK	X		X						21
WARE ISLAND	X		X						22
WEST BRANCH	X		X						23
WOOLSEY ROCK	X		X						24
									25

Approved

*Chris G. Gagnier*  
Chief Geographer

APR 26 1996



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL OCEAN SERVICE  
Coast and Geodetic Survey  
Norfolk, Virginia 23510-1114

Atlantic Hydrographic Party  
439 West York St.  
Norfolk, VA 23510-1114

July 15, 1994

Commander, (OAN)  
First U. S. Coast Guard District  
408 Atlantic Avenue  
Boston, MA 02110-3350

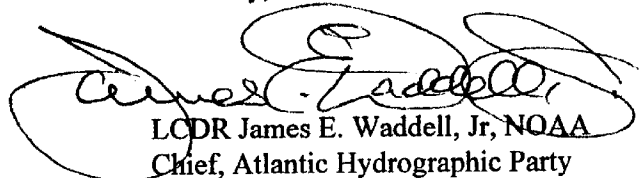
Dear Sir,

While conducting a basic hydrographic survey (Registry No. H-10540) of Connecticut, Long Island Sound, Shippan Point to Cos Cob Harbor, an uncharted rock was found 0.2 nautical miles south-southwest of Peck Point, in Stamford Harbor, at 41°01'08.20"N, 073°32'56.19"W. The rock is 6.2 feet below the water surface at Mean Lower Low Water. This chart correction is recommended for inclusion in the Local Notice to Mariners.

Positions are in NAD83 datum and the depth has been reduced to Mean Lower Low Water using predicted tides. The rock was located using Differential GPS. This information affects charts 12368, 21st Edition/December 12/92, NAD 1983 and 12364, 28th Edition/January 2/93. A section of chart 12368, showing the location of this danger, is attached.

This is advance information which is subject to office review. Questions concerning this report should be directed to me at (203) 783-4287 or Mr. Robert Roberson at the Atlantic Hydrographic Section, Norfolk, VA (804) 441-6319.

Sincerely,

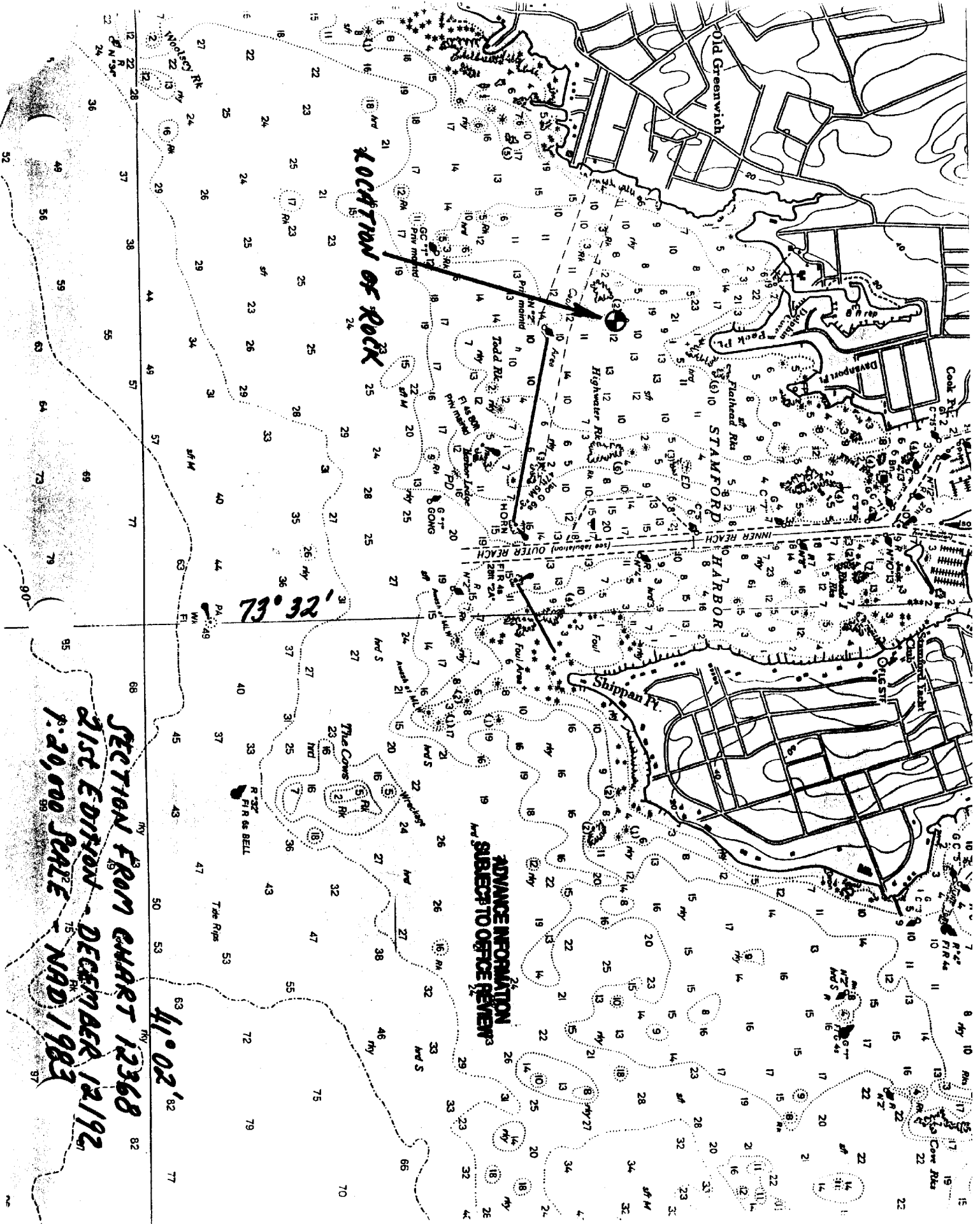


LCDR James E. Waddell, Jr, NOAA  
Chief, Atlantic Hydrographic Party

Attachment

cc: N/CG221  
N/CG244  
DMAHTC





**LOCATION of Rock**

**73° 32' W**

**ADVANCE INFORMATION  
SUBJECT TO OFFICE REVIEW**

**SECTION FROM CHART 12368  
21st Edition - DECEMBER 12/192  
1:20,000 SCALE - NAD 1983**

**41° 02' 82' N**

N/CS33-45-97

**LETTER TRANSMITTING DATA**

DATA AS LISTED BELOW WERE FORWARDED TO YOU  
BY (Check):

- ORDINARY MAIL       AIR MAIL  
 REGISTERED MAIL       EXPRESS  
 GBL (Give number) \_\_\_\_\_

DATE FORWARDED

August 29, 1997

NUMBER OF PACKAGES

1 Box, 1 Tube

TO:

NOAA/National Ocean Service  
 Chief, Data Control Group, N/CS3x1  
 SSMC3, Station 6815  
 1315 East-West Highway  
 L Silver Spring, MD 20910-3282

**NOTE:** A separate transmittal letter is to be used for each type of data, as tidal data, seismology, geomagnetism, etc. State the number of packages and include an executed copy of the transmittal letter in each package. In addition the original and one copy of the letter should be sent under separate cover. The copy will be returned as a receipt. This form should not be used for correspondence or transmitting accounting documents.

H-10540

Connecticut, Long Island Sound, Shippan Point to Cos Cob Harbor

1 Box Containing:

- 1 Original Descriptive Report for H-10540
- 1 Envelope with 3 HISTORY OF CARTOGRAPHIC WORK (NOAA form 76-71) for H-10540 for charts 12365, 12367, and 12368

1 Tube Containing:

- 1 Original Smooth Sheet for H-10540
- 1 Paper Composite plot of survey H-10540 for NOS chart 12365
- 2 Paper Composite plots, (1 of 2) & (2 of 2) of Survey H-10540 for NOS chart 12367
- 1 Paper Composite plot of survey H-10540 for NOS chart 12368
- 1 Mylar H-Drawing of H-10540 for NOS chart 12365
- 1 Mylar H-Drawing of H-10540 for NOS chart 12367
- 1 Mylar H-Drawing of H-10540 for NOS chart 12368

FROM: (Signature)

*R. H. Whitfield*  
 Richard H. Whitfield

RECEIVED THE ABOVE

(Name, Division, Date)

Return receipted copy to:

Atlantic Hydrographic Branch N/CS331  
 439 W. York Street  
 Norfolk, VA 23510-1114



09/02/97

HYDROGRAPHIC SURVEY STATISTICS  
REGISTRY NUMBER: H-10540

NUMBER OF CONTROL STATIONS	2
NUMBER OF POSITIONS	3774
NUMBER OF SOUNDINGS	20342

	TIME-HOURS	DATE COMPLETED
PREPROCESSING EXAMINATION	18	03/22/96
VERIFICATION OF FIELD DATA	150	06/25/97
QUALITY CONTROL CHECKS	343	
EVALUATION AND ANALYSIS	264	
FINAL INSPECTION	12	07/22/97
COMPILATION	297	08/29/97
TOTAL TIME	1084	
ATLANTIC HYDROGRAPHIC BRANCH APPROVAL		08/01/97

**ATLANTIC HYDROGRAPHIC BRANCH  
EVALUATION REPORT FOR H-10540 (1994)**

This Evaluation Report has been written to supplement and/or clarify the original Descriptive Report. Sections in this report refer to the corresponding sections of the Descriptive Report.

**D. AUTOMATED DATA ACQUISITION AND PROCESSING**

The following software was used to process data at the Atlantic Hydrographic Branch:

Hydrographic Processing System (HPS)  
AUTOCAD, Release 12  
QUICKSURF, version 5.1  
MicroStation 95, version 5.05  
NADCON, version 2.10  
I/RAS B, version 5.01

The smooth sheet was plotted using an ENCAD NovaJet III plotter.

**H. CONTROL**

Horizontal control used for this survey during data acquisition is based upon the North American Datum of 1983 (NAD 83). The smooth sheet has been annotated with ticks showing the computed mean shift between the NAD 83 and the North American Datum of 1927 (NAD 27).

To place this survey on the NAD 27, move the projection lines 0.351 seconds (10.83 meters or 1.08 mm at the scale of the survey) north in latitude, and 1.554 seconds (36.31 meters or 3.63 mm at the scale of the survey) east in longitude.

**J. SHORELINE**

Shoreline originates with final reviewed shoreline manuscript TP-01267 of 1987. The shoreline was digitized by Atlantic Hydrographic Branch personnel. The digitized data was inserted into the drawing file. The following should be noted:

1. Numerous dolphins and three floating piers were located by the hydrographer in the vicinity of Latitude 41°02'27"N, Longitude 73°31'39"W. These features are not shown on the shoreline manuscript. The floating piers are charted and it is recommended that the piers be retained as charted. It is recommended that the dolphins not be charted because of the number of dolphins located and the scale of the chart.

2. Five floating piers were located by the hydrographer in the vicinity of Latitude 41°02'15"N, Longitude 73°32'41"W. These piers are not shown on the shoreline manuscript. Four of the piers are charted. It is recommended that these piers be retained as charted. It is also recommended that a pier be charted in Latitude 41°02'19.69"N, Longitude 73°32'42.12"W as shown on the present survey.

#### L. JUNCTIONS

H-10353 (1990) to the south  
 H-10348 (1990) to the southeast  
 H-10354 (1990) to the east  
 H-10542 (1994) to the west  
H-10565 (1994) to the northeast

A standard junction was effected between the present survey and surveys H-10542 (1994) and H-10565 (1994).

A standard junction could not be effected with surveys H-10353 (1990), H-10348 (1990), and H-10354 (1990). The smooth sheets for these surveys are plotted in meters and is archived at National Ocean Service (NOS) headquarters, Silver Spring, Maryland. In these cases the note "ADJOINS" has been shown on the present survey smooth sheet. Any adjustments to the depth curves in the junctional area will have to be made on the chart during compilation.

#### M. COMPARISON WITH PRIOR SURVEYS

##### a. Hydrographic

H-1732a (1914-16) 1:20,000  
 H-5222 (1932) 1:10,000  
H-5402a (1933) 1:10,000

1. H-1732a (1914-16) covers the southeast section of the present survey. Prior survey depths are in good agreement with soundings varying plus or minus 1 to 2 feet ( $0^3 - 0^6$  m) with present survey depths.

2. H-5222 (1932) covers the northeast section of the present survey. Prior survey depths are in good agreement with present survey depths varying plus or minus 1 to 2 feet ( $\pm 0^3 - 0^6$  m). The following should be noted:

The following charted features originate with the prior survey and are not considered disproved by the present survey. These features have been brought forward from the

prior survey to supplement the present survey.

<u>FEATURE</u>	<u>LATITUDE (N)</u>	<u>LONGITUDE (W)</u>
<u>Depth (ft/m)</u>		
Rk 3/0 <sup>9</sup>	41°00'44.6"	73°33'11.5"
6/1 <sup>8</sup>	41°00'46.8"	73°33'11.7"
Rk 5/1 <sup>5</sup>	41°00'49.5"	73°33'18.5"
6/1 <sup>8</sup>	41°00'52.6"	73°33'18.4"
Rk 3/0 <sup>9</sup>	41°01'07.0"	73°33'15.5"
5/1 <sup>5</sup>	41°00'31.0"	73°31'26.0"
7/2 <sup>1</sup>	41°00'21.6"	73°31'25.8"
7/2 <sup>1</sup>	41°00'48.5"	73°31'59.2"
16/2 <sup>9</sup>	41°00'48.0"	73°31'31.7"

It is recommended that these features be retained as charted.

3. H-5402a (1933) covers the western section of the present survey. Prior survey depths are in good agreement with present survey depths varying plus or minus 1 to 2 feet ( $\pm 0^3-0^5$  m). The following should be noted:

A charted, 5-ft depth ( $1^5$  m) and a submerged rock with a depth of 1-ft, ( $0^3$  m) in Latitude 41°00'01.5"N, Longitude 73°35'25.0"W and Latitude 40°59'59.2"N, Longitude 73°34'08.4"W, respectively, originate with the prior survey and are not considered disproved. These features have been brought forward from the prior survey to supplement the present survey. It is recommended that these features be retained as charted.

A charted 11-ft depth ( $3^4$  m), in Latitude 40°59'48.0"N, Longitude 73°34'31.4"W, originates with prior survey H-1699ac (1908) and is not considered disproved. The prior survey was not available during office processing. The depth is shown on prior survey H-5402a (1933) and has been brought forward from the prior survey to supplement the present survey. No change in charting status is recommended.

The following charted features and soundings originate with the prior survey and are not considered disproved by the present survey. These items have been brought forward from the prior survey to supplement the present survey.

<u>FEATURE</u>	<u>LATITUDE (N)</u>	<u>LONGITUDE (W)</u>
<u>Depth (ft/m)</u>		
Rk 3/0 <sup>9</sup>	40°59'58.2"	73°34'09.0"
14/4 <sup>3</sup>	40°59'44.7"	73°35'20.8"
17/5 <sup>2</sup>	40°59'46.0"	73°35'29.2"

2/0 <sup>6</sup>	41°00'27.0"	73°35'14.8"
3/0 <sup>9</sup>	41°00'53.5"	73°35'53.0"
2/0 <sup>6</sup>	41°00'31.5"	73°35'02.5"
3/0 <sup>9</sup>	41°00'28.0"	73°35'05.0"
9/2 <sup>7</sup>	40°59'59.2"	73°34'13.0"
7/2 <sup>1</sup>	41°00'02.5"	73°33'59.5"
3/0 <sup>9</sup>	41°00'50.8"	73°33'39.5"

It is recommended that these features be retained as charted.

Except as noted above, the present survey is adequate to supersede the prior surveys within the common area.

**b. Wire Drag**

H-5142WD (1931) 1:20,000

A charted rock with a wire drag clearance depth of 32 feet, two charted unverified groundings, one charted wreck, and Automated Wreck and Obstruction Information System (AWOIS) items #4413, #6388, #6393 and #6618, originate with the prior survey and are discussed in the AWOIS Item Descriptive Reports appended to the Descriptive Report.

The charted 15-ft depth (4<sup>6</sup> m) originating with the prior survey in Latitude 40°59'53.7"N, Longitude 73°36'01.0"W falls within the junctional limits of H-10542 (1994). A discussion and charting recommendation is in the Evaluation and Analysis Report for that survey.

**c. Side Scan Sonar**

FE-319SS (1988) 1:10,000

FE-396 (1994) 1:10,000

1. Three charted items originating with prior survey FE-319SS (1988) fall within the limits of the present survey.

The charted dangerous submerged wreck with a depth of 61 feet (18<sup>6</sup> m) originates with CL1095/86 (AWOIS #4452) and was developed and located by the prior survey in Latitude 40°58'34.17"N, Longitude 73°34'21.72"W. The depth of 61 feet was obtained by a divers pneumatic depth gauge. The wreck was located by the present survey and is not considered adequately developed. The wreck has been brought forward from the prior survey to supplement the present survey. No change in charting is recommended.

The charted dangerous submerged wreck with a depth of 54 feet (16<sup>4</sup> m) originates with prior survey H-5142WD (1931) as a 54-ft sounding. The sounding was developed and located by the prior survey in Latitude 40°58'21.48"N, Longitude 73°33'53.40"W. The depth of 54 feet was obtained by a divers pneumatic depth gauge. The wreck was located by the present survey and is not considered adequately developed. The wreck has been brought forward from the prior survey to supplement the present survey. No change in charting is recommended.

AWOIS  
1749  
(SSV)

The charted rock with a depth of 31 feet Latitude 40°58'38.32"N, Longitude 73°32'22.75"W originates with prior survey H-5142WD (1931) as a wire drag clearance depth of 30 feet. The hang was developed and located by the prior survey and a depth of 31 feet was obtained by a divers pneumatic depth gauge. The rock was neither discussed nor developed by the present survey. The rock has been brought forward from the prior survey to supplement the present survey. No change in charting is recommended.

2. Prior survey FE-396 (1994) covers a small area in the southeast part of the present survey. Prior survey soundings are in good agreement with present survey soundings. The prior survey also covers the area of AWOIS item #4413 which has been located and discussed by the present survey. An adequate discussion and charting recommendation is in the AWOIS Item Description appended to the hydrographer's Descriptive Report.

#### N. ITEM INVESTIGATIONS

1. AWOIS Item #6385, two charted piers, in Latitude 41°01'04.85"N, Longitude 73°34'08.44"W, originate with an unknown source. The investigation summary written by the hydrographer states that no pier was found; however, field records and pictures show that one pier is located at the AWOIS position. A pier is also shown on the shoreline manuscript. It is recommended that the two piers be deleted from the chart, and one pier be charted as shown on the present survey.

2. AWOIS Item #6400, a charted note 5-ft rep 1981, in Latitude 41°02'08.34"N, Longitude 73°32'24.44"W, originates with Chart Letter 1421 of 1981 (CL1421/81). The charted channel is not considered adequately developed by the hydrographer. It is recommended that the notation 5ft rep 1981 be retained as charted.

3. AWOIS Item #7674, a charted visible wreck, in Latitude

40°59'47.15"N, Longitude 73°34'34.44"W, was not investigated by the field unit. The hydrographer does state in the Descriptive Report that the wreck is no longer visible. It is recommended that the visible wreck be revised to a dangerous sunken wreck.

4. AWOIS Item #7682, a charted sunken wreck, PA, marked with a flashing light, in Latitude 41°00'09.35"N, Longitude 73°32'00.43"W, originates with Local Notice to Mariners 31 of 1988 (LNM31/88). The item was not investigated by the field unit. The hydrographer states in the Descriptive Report in section Q., pages 20 and 21, that there is no aid to navigation at the location. The aid is not charted on the latest edition of charts. It is recommended that the sunken wreck PA be retained as charted. It is also recommended that the aid to navigation not be charted unless other information indicates otherwise.

5. AWOIS Item #8882, a charted sunken wreck, PA, in Latitude 40°59'36"N, Longitude 73°33'18", originates with LNM35/91. The item was not investigated by the field unit. It is recommended that the sunken wreck, PA be retained as charted.

O. COMPARISON WITH CHART 12365 (24<sup>th</sup> Edition, Nov. 09/96)  
12367 (21<sup>st</sup> Edition, Oct. 19/96)  
12368 (23<sup>rd</sup> Edition, Nov. 09/96)

### Hydrography

The charted hydrography originates with the previously discussed prior surveys and needs no further discussion. A comparison of the survey with Chart 12365 yielded good agreement. The following should be noted:

1. A danger to navigation report was submitted by the hydrographer on an uncharted dangerous submerged rock with a depth of 6 feet (1<sup>st</sup> m), in Latitude 41°01'08.19"N, Longitude 73°32'56.17"W. The depth on the rock was computed using predicted tides. The rock is presently charted on the latest edition of charts 12367 and 12368. During office processing approved tides were applied to the present survey. The rock is shown on the present survey as a rock with a depth of 7 feet (2<sup>1</sup> m). It is recommended that the charted dangerous submerged rock be revised and charted as shown on the present survey.

2. Numerous charted rocks throughout the survey area were located by the hydrographer. It is recommended that these

rocks be revised and charted as shown on the present survey.

3. A charted rock with a depth of 3 feet ( $0^9$  m) and an uncharted rock with a depth of 5-ft ( $1^5$  m), in Latitude  $41^{\circ}01'04.70''N$ , Longitude  $73^{\circ}33'12.68''W$ , and Latitude  $41^{\circ}01'07.18''N$ , Longitude  $73^{\circ}33'12.98''W$ , respectively, were located by the hydrographer. It is recommended that the charted rock be revised to the position shown on the present survey. It is also recommended that the uncharted rock be charted as shown on the present survey.

4. The following charted depths are not considered disproved by the present survey.

<u>Depth (ft/m)</u>	<u>LATITUDE (N)</u>	<u>LONGITUDE (W)</u>
4/1 <sup>2</sup>	41°01'07.5"	73°33'23.1"
6/1 <sup>8</sup>	41°01'13.0"	73°33'19.7"
4/1 <sup>2</sup>	41°00'02.5"	73°35'19.0"

No change in charting status is recommended.

5. A charted rock with a depth of 7-ft ( $2^1$  m) in Latitude  $41^{\circ}00'46.5''N$ , Longitude  $73^{\circ}32'01.3''W$  originates with CL 1011/71. The rock was neither investigated nor discussed by the hydrographer. It is recommended that the rock with a depth of 7-ft be retained on the chart.

6. A charted rock shoal in the vicinity of Latitude  $41^{\circ}01'43.0''N$ , Longitude  $73^{\circ}31'55.5''W$  was developed by the present survey. Present survey depths are 2 to 5 feet. It is recommended that the rock shoal be deleted from the chart and present survey depths be charted.

The present survey is adequate to supersede the charted hydrography in the common area.

#### P. ADEQUACY OF SURVEY

This is an adequate hydrographic survey. No additional work is recommended.

#### S. MISCELLANEOUS

Chart compilation using the present survey was done by Atlantic Hydrographic Branch personnel in Norfolk, Virginia. Compilation data will be forwarded to Marine Chart Division, Silver Spring, Maryland.



*Marilyn Schlüter*

Marilyn L. Schlüter  
Cartographic Technician  
Verification of Field Data

*Richard H. Whitfield*

Richard H. Whitfield  
Cartographer  
Evaluation and Analysis

APPROVAL SHEET  
H-10540

Initial Approvals:

The completed survey has been inspected with regard to survey coverage, delineation of depth curves, development of critical depths, cartographic symbolization, and verification or disproof of charted data. The digital data have been completed and all revisions and additions made to the smooth sheet during survey processing have been entered in the digital data for this survey. The survey records and digital data comply with NOS requirements except where noted in the Evaluation Report.

Robert G. Roberson Date: Aug 1, 1997  
Robert G. Roberson  
Cartographer  
Chief, Cartographic Section

I have reviewed the smooth sheet, accompanying data, and reports. This survey and accompanying digital data meet or exceed NOS requirements and standards for products in support of nautical charting except where noted in the Evaluation Report.

Nicholas E. Perugini Date: August 1, 1997  
Nicholas E. Perugini, CDR, NOAA  
Chief, Atlantic Hydrographic Branch

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Final Approval:

Approved: Andrew A. Armstrong, III Date: Oct. 21, 1997  
Andrew A. Armstrong, III  
Captain, NOAA  
Chief, Hydrographic Surveys Division

MARINE CHART BRANCH  
**RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. \_\_\_\_\_

**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
12365	8/23/97	<i>[Signature]</i>	Full <del>Part Before</del> After Marine Center Approval Signed Via Drawing No. AREA OF SURVEYS H-10611, H-10618 NOT COMPILED
12367	8/20/97	<i>[Signature]</i>	Full <del>Part Before</del> After Marine Center Approval Signed Via Drawing No. AREA OF SURVEYS H-10611, H-10612 - NOT COMPILED
12368	8/20/97	<i>[Signature]</i>	Full <del>Part Before</del> After Marine Center Approval Signed Via Drawing No.
12368	11/18/97	<i>[Signature]</i> PS 12-1-97	Full <del>Part Before</del> After Marine Center Approval Signed Via Drawing No. 41
12363	5-13-98	<i>[Signature]</i>	Full Part Before After Marine Center Approval Signed Via Drawing No. then chart 12365-68
12364	12/2/97	<i>[Signature]</i>	Full Part Before After Marine Center Approval Signed Via Drawing No. 31
			Full Part Before After Marine Center Approval Signed Via Drawing No.
			Full Part Before After Marine Center Approval Signed Via Drawing No.
			Full Part Before After Marine Center Approval Signed Via Drawing No.
			Full Part Before After Marine Center Approval Signed Via Drawing No.
			Full Part Before After Marine Center Approval Signed Via Drawing No.
			<b>PRODUCTS</b> CP2 12366 12367 PS 12368 K. JETT 12-1-97 12364 A, B 12363

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