

NOAA FORM 76-35A

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

DESCRIPTIVE REPORT

Type of Survey

Field No.

Registry No.

LOCALITY

State

General Locality

Sublocality

CHIEF OF PARTY

LIBRARY & ARCHIVES

DATE

HYDROGRAPHIC TITLE SHEET

H11045

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 NUMBER: N/A

State: **Connecticut – New York**

General Locality: **Long Island Sound**

Locality: **4 NM South of Bridgeport Harbor**

Scale: **1:20,000** Date of Survey: **31 July 2003 to 11 Sept 2003**

Instructions Dated: **24 April 2003** Project No. **OPR-B340-RU**

Vessel: **NOAA Ship RUDE (s590), NOAA Launch 1419**

Chief of Party: **LCDR P. Tod Shattgen, NOAA**

Surveyed by: **LCDR P. Tod Shattgen, LT T. Haupt., LTjg C. Yoos,
ENS R. Edmunson, SST E. Moore, ST W. Kitt**

Soundings by: **RESON 8125 & ODOM Echotrac DR 3200 MK II**

Graphic Record Scaled by: **RUDE Personnel**

Graphic Record Checked by: **N/A**

Protracted by: **N/A** Automated Plot by: **N/A**
Hewlett Packard Design Jet 2500 CP (office)

Verification by: **Atlantic Hydrographic Branch Personnel**

Soundings in: **Feet at MLLW**

REMARKS: ***Red, bold, italic notes in the descriptive report were made during office processing.***
Blue, bold, italic notes in the descriptive report were made during the AWOIS/SURF check in HSD, Operations Branch by JCM, 12/23/04.

***Basic Hydrographic Survey, Times in UTC, Verified Tides,
Projection UTM Zone 18 N***

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** Data filed with the original field records.*

DESCRIPTIVE REPORT

To accompany

HYDROGRAPHIC SURVEY H11045

Scale of Survey: 1:20000
Year(s) of Survey: 2002-2003
NOAA Ship RUDE
LCDR P. Tod Schattgen, Commanding

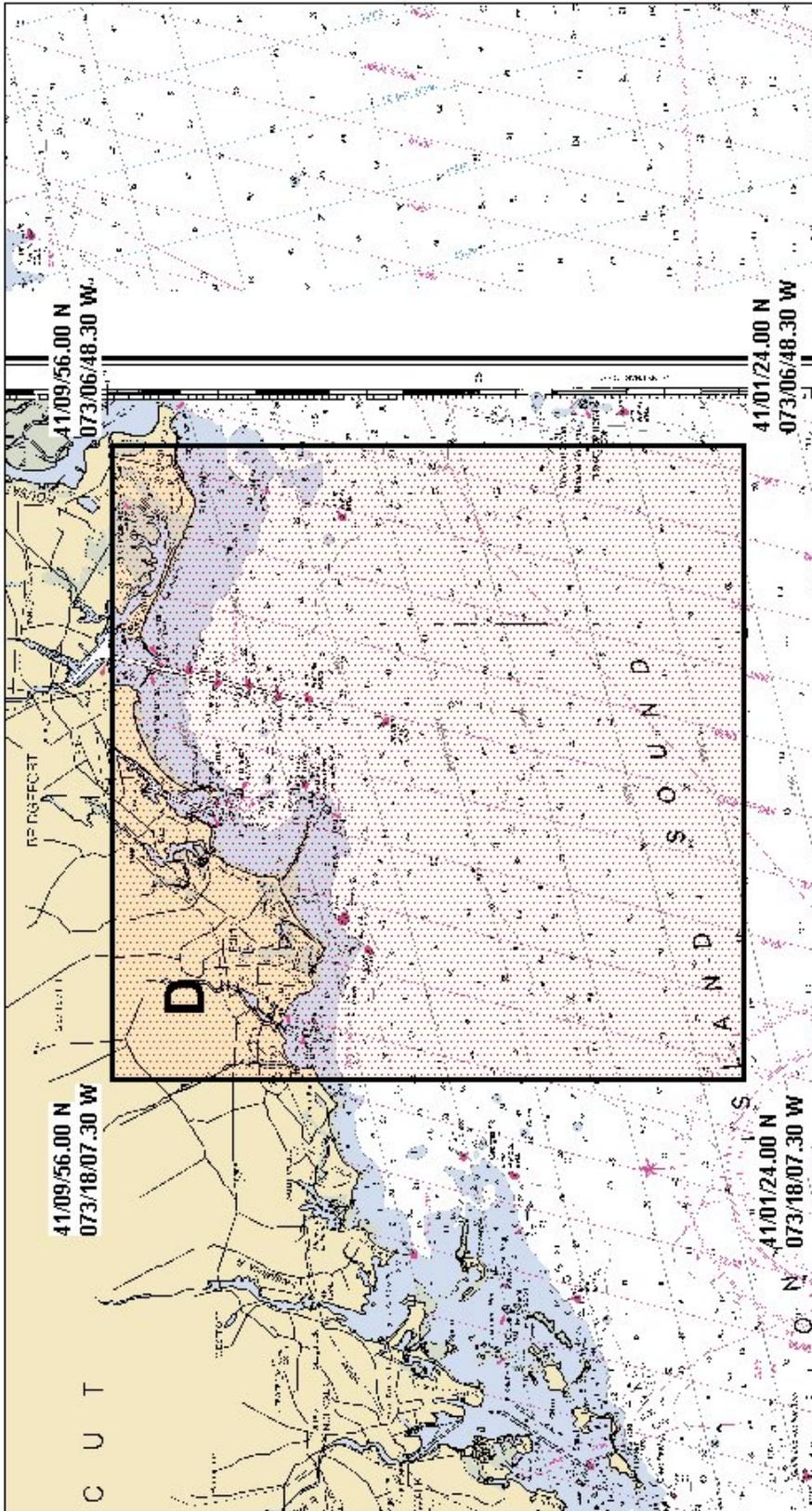
A. Area Surveyed

This hydrographic survey was conducted in accordance with Hydrographic Survey Letter Instructions for project OPR-B340-RU updated April 24, 2003.

In response to requests from the Northeast Marine Pilots Association, this survey was conducted to accurately portray the bottom and locate and disprove ship wrecks and obstructions with modern hydrographic survey techniques to help better facilitate safe navigation of the increased oil tanker traffic bound up and down Long Island Sound and associated lightering.

Full bottom coverage, consisting of either 200% side scan sonar or 100% side scan sonar and 100% multibeam sonar coverage was achieved from the survey limits to the 6-meter curve. Basic hydrography was acquired between the 6-meter and 4-meter curves.

For complete survey limits, see the chartlet on the following page.



41°09'56.00 N
073°06'48.30 W

41°01'24.00 N
073°06'48.30 W

41°09'56.00 N
073°18'07.30 W

41°01'24.00 N
073°18'07.30 W

Chartlet 1 of 1 Chart 12363, 39th Edition, 15 July 2000, Scale 1:80,000, Long Island Sound Western Part
 This chartlet has been corrected through
 Notice to Mariners dated April 01, 2003
 NOT FOR NAVIGATION.

NOAA Ship RUDE
LCDR P Tod Schattgen
 Commanding
 July 31, 2002 to
 September 11, 2003

Sounding Units: Feet
 Sounding Datum: MLLW
 Horizontal Datum: WAD 83
 Projection: UTM 18
 Central Meridian: 075° 00 00
 Scale Factor: 0.9996

Project: OPR-8340-RU
 Survey: H11045
 State: Connecticut & New York
 Locality: Long Island Sound
 Sub-locality: 4 NM S of Bridgeport Harbor
 Survey Scale: 1:20,000

NATIONAL OCEANIC AND
 ATMOSPHERIC ADMINISTRATION
 NATIONAL OCEAN SERVICE



B. DATA Acquisition and Processing Equipment *See also the Evaluation Report.***Equipment**

Data were acquired by NOAA Ship RUDE (S-590), EDP #9040) and NOAA Launch 1419.

The RUDE is 90 feet in length with a 22-foot beam and 7-foot draft. Launch 1419 is 24 feet in length with a 6-foot beam and a 1.5-foot draft.

Vertical-beam echo sounding data were acquired on RUDE with an Odom Echotrac dual-beam echo sounder (24 and 200 kHz). RUDE vertical-beam data was used in conjunction with Side Scan Sonar to ensonify objects on the bottom not apparent at side scan nadir and also for crossline checks with the mainscheme lines. No vertical beam data were acquired during multibeam operations. Launch 1419 acquired single-beam echo-sounding data with an Odom Echotrac dual-beam echo sounder (24 and 200 kHz). All data is included in the final data set.

RUDE and 1419 acquired all side scan sonar data using a Klein 5000 and Klein 3000 towfish, respectively. Side scan sonar data was recorded digitally on RUDE using Triton ISIS software and archived in Extended Triton Format. 1419 data was recorded digitally using Sonarpro software.

Single frequency (455 kHz) multi-beam data were acquired with a Reson SeaBat 8125 shallow water sonar system. Positioning and attitude for RUDE were determined with a TSS POS/MV and utilizing a Trimble DSM-212L DGPS receiver. Launch 1419 used a TSS DMS-05 in conjunction with a Starlink DNAV-212 DGPS receiver.

Sound velocity data were acquired using a Sea-Bird SBE 19 SEACAT Conductivity, Temperature and Depth (CTD) Profiler.

No unusual vessel configurations or problems were encountered. Data acquisition and Processing Reports (DAPR)* for 2002, 2003 have previously been submitted. Please refer to the appropriate DAPR for detailed equipment and vessel configuration.

****Filed at Atlantic Hydrographic Branch (AHB).***

B.2 QUALITY CONTROL *See also the Evaluation Report.*

Side Scan Sonar Quality Control

Daily confidence checks were made by observing the outer ranges of the side scan sonar images. A good check consisted of distinguishing contacts, i.e. lobster pots, drag scars, cable lines, or sand waves across the entire range of the side scan trace. Under conditions of questionable data quality due to high refraction or surface noise, these confidence checks were conducted as often as possible. SSS data acquisition was suspended when targets approximately 1 meter in characteristic size could not be resolved to the edge of the range scale in use.

Shallow Water Multibeam Quality Control

There were no major faults with the shallow water multibeam system which affected data integrity in this survey. Confidence checks were provided by comparing nadir sounding data to the VBES and ensonification of known side scan contacts. Please refer to the project's DAPR for detailed discussion of SWMB system calibrations, patch test, data acquisition, and data processing.

Crosslines

The total distance of crosslines is 122 linear nautical miles which is equal to 5.4% of total mainscheme lines. Crossline to mainscheme line comparison was conducted using MapInfo 6.5 and visually inspecting the resulting sounding plot printout. Comparison is adequate, with the majority of differences being one foot or less. In the eastern region mostly north of Stratford Shoals there are some discrepancies of five feet, which may be attributed by the undulating nature of the bottom, i.e. sand wave crests and troughs.

Junctions

Survey H11045 junctions with survey H11044 (2002) on the eastern edge just west of Stratford Shoals. During the writing of this descriptive report, no comparison was made with survey H11044 which is still under review at the Atlantic Hydrographic Branch.

B.3 CORRECTIONS TO ECHO SOUNDINGS

All methods or instruments were implemented as described in the Correction to Echo Sounding section of the DAPR for this project. A table detailing all sound velocity profiles

is located in Separate III*. Sound velocity data has been submitted on a CD-ROM with the digital data package. **Filed with the original field data*

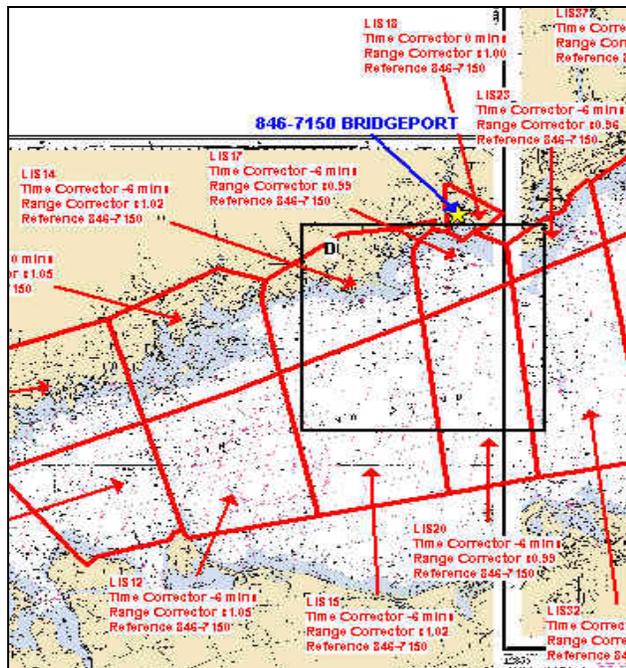
C. VERTICAL AND HORIZONTAL CONTROL

VERTICAL CONTROL

The tidal datum for this project is Mean Lower Low Water (MLLW) and Mean High Water (MHW). Soundings are referenced to MLLW.

Tidal zoning as supplied with Project Instructions for this survey was as follows:

Zone Name	Time Corrector	Range Ratio	Predicted Reference
LIS14	-6	x1.02	846-7150 (Bridgeport)
LIS15	-6	x1.02	846-7150 (Bridgeport)
LIS17	-6	x0.99	846-7150 (Bridgeport)
LIS18	±0	x1.00	846-7150 (Bridgeport)
LIS20	-6	x0.99	846-7150 (Bridgeport)
LIS23	-6	x0.96	846-7150 (Bridgeport)
LIS32	-6	x0.96	846-7150 (Bridgeport)



Operation of the control gauges at Bridgeport, CT (846-7150) and Kings Point, NY (851-6945) and subordinate gauge at Eatons Neck, NY (851-5786) was monitored on the CO-OPS internet site and by TIDEBOT email. All soundings were reduced to Mean Lower Low Water with verified tides. Opening and closing levels were run on the Eatons Neck gauge by RUDE personnel to verify stability of the gauge.

A Request for Approved Tides letter was sent to N/OPS1 on December 01, 2003 (Appendix IV). Verified tides from the N/OPS1 CO-OPS website were downloaded and applied to all soundings for this sheet. Tide corrections were applied to the soundings using CARIS HIPS and SIPS v5.3.

HORIZONTAL CONTROL

The horizontal datum used for this survey is the North American Datum of 1983 (NAD 83), projected using UTM zone 18. *Concur.*

Sounding positional control was determined using the Global Positioning System (GPS) corrected by U.S. Coast Guard differential GPS (DGPS) beacon stations. The primary DGPS beacon used for this survey was Moriches, New York. When the primary signal was weak or disabled, the secondary DGPS beacon used was Sandy Hook, New Jersey. No horizontal control stations were established for this survey.

Beacon Station	Frequency (kHz)	Latitude	Longitude
Moriches	293	41°47'24" N	072°44'42" W
Sandy Hook	286	40°28'18" N	074°00'42" W

Horizontal dilution of precision (HDOP) was monitored daily. Data were re-acquired if the HDOP value exceeded 2.5. The TSS POS/MV positioning system was also used to monitor the accuracy of the ship's position and orientation. Data were re-acquired if POS M/V's estimated position accuracy exceeded 4 m. Refer to section A.3 of the 2003 field season DAPR* for more details regarding RUDE's POS M/V settings and operation.

**Filed at AHB*

D. Results and Recommendations *See also the Evaluation Report.*

Chart Comparison

Charts Affected: All or part of the following NOAA nautical charts are contained within the limits of H11045:

Chart Number	Edition	Edition Date	Scale
12354	39 th	15 Dec 2001	1:80000
12363	39 th	15 July 2000	1:80000
12364	33 rd	16 Feb 2002	1:40000
12369	24 th	28 Mar 1998	1:20000
12370	17 th	06 Mar 1993	1:20000-

United States Coast Guard Notice to Mariners and Local Notice to Mariners corrections were applied through 01 April, 2003.

Current survey soundings and features were compared to charted depths and features on NOAA charts 12354, 12363, and 12369. Chart 12363 is the only chart that covers the entire survey area.

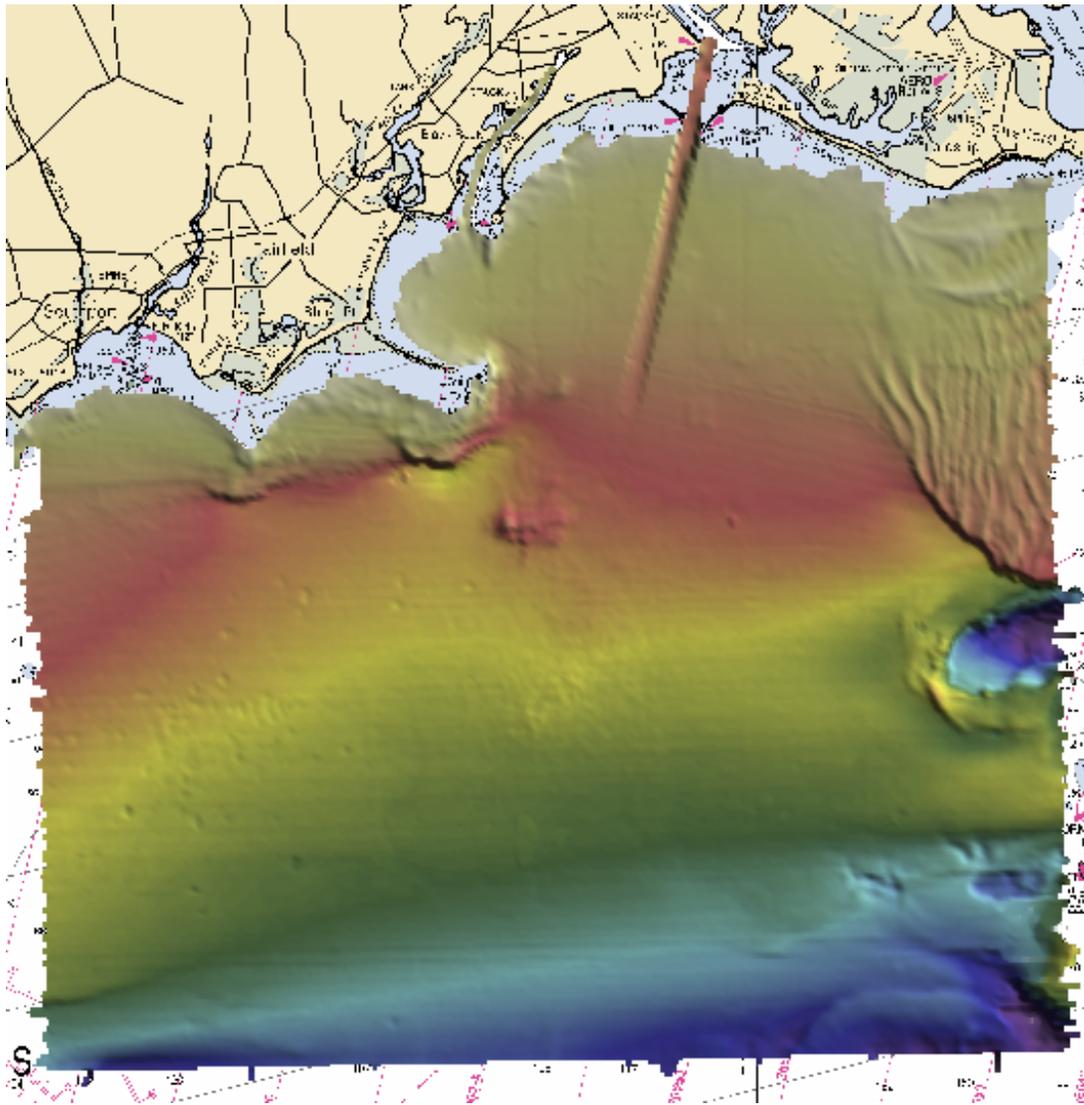
General Description of Surveyed Area and Sounding Comparison

H11045 covers a large area approximately 61 square nautical miles from Southport to Stratford Point along the Connecticut coast and south across Long Island Sound to approximately 3.5 nautical miles north of Long Island, exhibiting a generally flat bottom composed primarily of mud and sand. The bottom is punctuated by rocky outcrops and clusters near shore along with sandwaves sculpted by tidal currents and stratford Shoal to the east. Long Island Sound and the ports of southern Connecticut have been major centers of maritime commerce for over 300 years, thus numerous sunken wrecks and other man-made features were located.

Although H11045 was assigned as a 1:20000 scale survey, the hydrographer recommends that office verification and processing be conducted at 1:10000 scale or larger. The coastal area covered by H11045 is a dynamic, rocky environment with numerous hazards, which supports heavy recreational and commercial vessel traffic, ie, sailboats, powerboats, lobstermen, oystermen, tug and barge, ferry, and tankers. Most rocky hazards are currently located within the blue highlighted area of the charts denoting the 18-foot curve and is noted accordingly. Much of this area has not been surveyed since the 1890's and there are

instances of significant discrepancies between charted depths and current survey soundings. Most of these discrepancies are limited to the region north of Stratford Shoal and extending westward approximately 3 nautical miles, an area of discernible sand wave formations. The hydrographer believes that analysis of H11045 at a larger scale is necessary to accurately portray the results of this survey on the 1:20000 scale coastal charts of the common area. All sounding data for H11045 were imported into the Pydro PSS at a 15 meter grid and can be excessed back to this density if increased sounding resolution is required.

Survey processed at 1:20000 scale.



NOTE: Vertical Exaggeration = 21x to show the sand waves in the NE quadrant.

Stratford Shoal northward to Stratford Point

Current soundings vary most significantly in this area by as much as 9 feet in some instances due to the inherent instability of sand wave migration. The hydrographer recommends that current soundings in this area supercede any previously charted soundings and that sand waves be charted in the area. *Concur.*

The Cows and Pine Creek Point

Although the charts do a fine job of depicting rocks along the 18-foot curve, it is recommended that the curve be extended seaward to include the updated 18-foot soundings as well as marking where appropriate, charting rocky areas as opposed to individual rock annotation. Please see the item investigations section of this report for further clarification.

General Agreement

Except for the regions indicated above, comparison between current soundings and the charted soundings were adequate, generally agreeing within plus or minus 2 feet. There is a band that extends from the sand waves and moves southwestward that is currently and consistently deeper than present charted soundings. *Concur.*

D.1 PSS Organization

There are five basic headers to the accompanying digital contact PSS. Tree – contains items resolved, match charted soundings, deemed insignificant, or are a part of the broader recommendation of expanding rocky denotation in and around Little Cows and Penfield Reef. DTON – Contains one item. Charted – Contains items previously charted and verified. These are Non-DtoNs and may be checked as resolved or, when necessary chart and report. New Features – Contains items of interest and investigated that are not currently charted. These are checked in Pydro as Report and, when necessary, Significant. AWOIS – Ten items were contained within the boundaries of this sheet and are addressed. They are checked in Pydro as Report and Resolved.

H11045

NOAA Ship RUDE

April 6, 2004

D.2 Item Investigations

D.2.1 AWOIS Items

Two AWOIS items were not verified after full coverage:

AWOIS #7700 41°01'37.320" N, 073°10'17.560" W Wreck

Result: 100% SWMB, 100% SSS, not seen. *Concur. See section D.2.1.1 of the Evaluation and Analysis (E&A) Report.*

Analysis during the AWOIS/SURF check determined that AWOIS item # 7700 was verified by the present survey. Refer to section D.2.3 on page 88 and section D.2.1.1 on page 2 of the Evaluation Report for this survey.

AWOIS #11847 41°07'54.180" N, 073°11'55.450" W Rock

Result: 200% SSS, no confirmation. *Concur. See section D.2.1.2 of the E&A Report.*

One AWOIS item possibly verified by SSS only:

AWOIS #11852 41°07'06.350" N, 073°13'04.410" W Obstruction

Result: This object is in an area of high density rocks on a charted 3' sounding and thus deemed unsafe for conducting operations. However, towing SSS with a 50-meter range scale, launch 1419 was able to obtain imagery over the area and possibly identified the item in question.

SSS Record: 2003-211/sdf030730202000_7 41°07'05.895" N, 073°13'04.661" W
Height: 2.39m (7.8 ft)

Since the measured height and proximity compares favorably to AWOIS #11852, the hydrographer recommends retaining the 3-ft sounding. *Concur with clarification. Office review of survey records found no evidence of AWOIS #11852. It is recommended that the dangerous Obstruction (4 ft rep) be deleted from the chart.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2002-212/156_2154

Item Description: Wreck

Source: AWOIS #7699

Item Position: 41°01'23.030" N 073°11'08.730" W **Radius:** N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2002-212/156_2154, 2003-203/156_1259_1

Date(s): 203, 253

Least Depth Position Number: Ping: 833 Beam: 84 Line Number: 253/301_1324

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°01'22.974" N, Longitude 073°11'08.676" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 34.02m corrected with verified tides. Imagery indicated the presence of a small wreck. Due to the insignificant apparent height, dive operations were not conducted. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the relative height of this item in relation to the surrounding bottom, the hydrographer recommends charting as 111 Wk. *Concur.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/327_1708

Item Description: Charted Rks

Source: AWOIS #11845

Item Position: 41°07'54.370" N 073°13'05.840" W **Radius:** 100m

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-232/sdf030820204400_1

Date(s): 232, 253

Least Depth Position Number: Ping: 1116 Beam: 18 Line Number: 253/327_1708

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°07'54.038" N, Longitude 073°13'06.353" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations . SWMB revealed a least depth of 6.04m corrected with verified tides. Imagery indicated the presence of a rocky area with three distinct larger rocks. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: The position of the contact shows good placement within the 20-foot designation shown on the chart. The hydrographer recommends retaining the charted feature. *Do not concur. Delete the dangerous 20 Rk and chart a dangerous 19 Rk at Latitude 41°07'55.75"N, Longitude 73°13'06.53"W.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/330_1719

Item Description: Charted Rks

Source: AWOIS #11846

Item Position: 41°07'44.400" N 073°13'01.780" W **Radius:** 100m

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-211/sdf030730141100_1, 2003-211/sdf030730141900_1, 2003-233/sdf030821171400_1, 2003-233/sdf030821172100_1

Date(s): 211, 233, 253

Least Depth Position Number: Ping: 651 Beam: 110 Line Number: 253/330_1719

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°07'44.412" N, Longitude 073°13'01.885" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 6.11m corrected with verified tides. Imagery indicated the presence of a rocky mound or outcrop. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: The position of the contact shows good placement within the 20-foot designation shown on the chart. The hydrographer recommends retaining the charted feature and depth. *Concur. Retain the dangerous 20 Rk as charted.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/333_1724

Item Description: Charted Rks

Source: AWOIS #11848

Item Position: 41°07'29.030" N 073°12'58.230" W **Radius:** 100m

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-251/sdf030908145700_4, 2003-250/sdf030907211700_1, 2003-251/sdf030908153500_1

Date(s): 250, 251, 253

Least Depth Position Number: Ping: 1176 Beam: 1 Line Number: 253/333_1724

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°07'28.895" N, Longitude 073°12'58.255" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 6.98m corrected with verified tides. Imagery indicated the presence of a group of rocks near Black Rock. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: This feature is located in a charted 21-foot sounding with a 100-meter radius danger circle. The hydrographer recommends revising 21 Rk to 23 Rk.

Do not concur. Chart the dangerous 21 Rk at the surveyed position.

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File Config Data Reports Window Misc Help

Tree DTON Chatted New Features AWOIS

Features

- AWOIS
- Resolved
- Report
- awois_B340_03_new
 - #7699 - OBSTRUCTION
 - #7700 - OBSTRUCTION
 - #11845 - OBSTRUCTION
 - #11846 - OBSTRUCTION
 - #11847 - OBSTRUCTION
 - #11848 - OBSTRUCTION
 - #11849 - OBSTRUCTION
 - #11850 - OBSTRUCTION
 - #11851 - OBSTRUCTION
 - #11852 - OBSTRUCTION

Details Remarks Recommendations Office Notes

\$57 Current Feature from AWOIS Status Secondary

DB awois_B340_03_new

Time 03-112.00:00.00 AWOIS 11848 Radius 100 m

Position $41^{\circ}07'29.030''$ $-073^{\circ}12'58.230''$

(Surrounding Depth) ? (Height) ?

Depth 21.00 feet

Resolved Report Chart DTOM Investigate
 Office QC Reject Significant Submitted Tgt Exported

DisName OBSTRUCTION

Details Remarks Recommendations Office Notes

Correlating Feature from Bathymetry Status Primary

Line h:\h11045\h00_rnb\2003-253\333_1724

Time 2003-253:17:26:35.020 Profile 1176 Beam 1 Distance 4.23 m

Position $41^{\circ}07'28.895''$ $-073^{\circ}12'58.255''$

In Bathy Depth 22.69 feet Tide 1.33 m

(Surrounding Depth) 25.78 feet (Height) 0.89 m

Resolved Report Chart DTOM Investigate
 Office QC Reject Significant Submitted Tgt Exported

DisName 11761

Drawings Bathymetry/Features...
 Drawing Bathymetry/Features...
 Showing contact AWOIS # 11845
 Showing contact 1116718
 Showing contact AWOIS # 11845
 Drawing Bathymetry/Features...
 Showing contact AWOIS # 11846
 Showing contact 651/110
 Showing contact AWOIS # 11846
 Showing contact 651/110
 Showing contact AWOIS # 11847
 Drawing Bathymetry/Features...
 Showing contact AWOIS # 11848
 Showing contact 0005
 Drawing Bathymetry/Features...
 Showing contact 1176/1
 Showing contact 0005
 Showing contact 1176/1
 Saving: S:\Pydro_Proj\B_340\H11045 (D)\PSS\Final_working_H11045
 Drawing Bathymetry/Features...

Both Cur Feature Cur Paths Cur DGL Corr Feature Corr Paths

No image associated with feature

41.12388826 -073.21110379 435.8m 102.2° 100% Compressed 100% Final working_H11045.param

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/333_1724

Item Description: Charted Rks

Source: AWOIS #11849 and #11850

Item Position: 41°07'27.030" N 073°12'55.610" W **Radius:** 100m

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-251/sdf030908145700_4, 2003-250/sdf030907211700_1, 2003-251/sdf030908153500_1

Date(s): 250, 251, 253

Least Depth Position Number: Ping: 1466 Beam: 204 Line Number: 253/333_1724

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°07'26.971" N, Longitude 073°12'55.735" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 6.35m corrected with verified tides. Imagery indicated the presence of a group of rocks near Black Rock. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: This feature(s) is located in a charted 18-foot sounding with a 100-meter radius danger circle. The hydrographer recommends revising 18 Rk to 21 Rk. *Concur. Revise the dangerous 18 Rk to a dangerous 21 Rk. See also section D.2.1.3 of the E&A report.*

Pydro v3.7.0 S:\Pydro_Proj\B-340\H11045 (D)\VPSS\Final_working_H11045

File Config Data Reports Window Misc Help

Tree DTON | Charted | New Features | AWOIS

- Features
 - [-] AWOIS
 - [-] Resolved
 - [-] Report
 - [-] awois_B340_03_new
 - #7699 - OBSTRUCTION
 - #7700 - OBSTRUCTION
 - #11845 - OBSTRUCTION
 - #11846 - OBSTRUCTION
 - #11847 - OBSTRUCTION
 - #11848 - OBSTRUCTION
 - #11849 - OBSTRUCTION
 - #11850 - OBSTRUCTION
 - #11851 - OBSTRUCTION
 - #11852 - OBSTRUCTION

Details | Remarks | Recommendations | Office Notes

\$57 DB awois_B340_03_new Status Secondary Radius 100 m

Time 03:12:00:00:00 AWOIS 11849

Position **41°07'27.030" N, -073°12'55.610" W** (Height) ?

(Surrounding Depth) ? Depth 18.00 feet

Resolved Report Chart DTON Investigate

Office OC Reject Significant Submitted Tgt.Exported

Displayname OBSTRUCTION

Details | Remarks | Recommendations | Office Notes

Line h411045\h00_nhb2003-263\633_1724 Status Primary

Time 2003-253.17:27:03.987 Profile 1466 Beam 204 Distance 3.44 m

Position **41°07'26.971" N, -073°12'55.735" W** Tide 1.93 m

In Bathy Depth 20.82 feet (Height) 1.94 m Chants Affected

(Surrounding Depth) 27.19 feet

Resolved Report Chart DTON Investigate

Office OC Reject Significant Submitted Tgt.Exported

Displayname 1466204

Showing contact 1116718
 Showing contact AWOIS # 11845
 Drawing Bathy/Features...
 Showing contact AWOIS # 11846
 Showing contact 6517110
 Showing contact AWOIS # 11846
 Showing contact 6517110
 Showing contact AWOIS # 11847
 Drawing Bathy/Features...
 Drawing Bathy/Features...
 Showing contact AWOIS # 11848
 Showing contact 0005
 Drawing Bathy/Features...
 Showing contact 117671
 Showing contact 0005
 Showing contact 117671
 Saving S:\Pydro_Proj\B-340\H11045 (D)\VPSS\Final_working_H11045...
 Drawing Bathy/Features...
 Showing contact AWOIS # 11849
 Showing contact 1466204
 Showing contact AWOIS # 11849

100% Final working_H11045.param

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/352_1852

Item Description: Charted Rk

Source: AWOIS #11851

Item Position: 41°07'12.360" N 073°12'44.010" W **Radius:** 100m

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-211/sdf030730203700_1, 2003-233/sdf030821193100_1, 2003-233/sdf030821194200_1

Date(s): 211, 233, 253

Least Depth Position Number: Ping: 669 Beam: 49 Line Number: 253/352_1852

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°07'12.459" N, Longitude 073°12'45.645" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 7.57m corrected with verified tides. Imagery indicated the presence of a rock outcropping near Black Rock. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: This feature is located 100m southwest of charted 26-foot sounding with a 100-ft danger radius labeled "Rk." The hydrographer recommends revising 26 Rk to 25 Rk at its updated position. *Concur. Revise the dangerous 26 Rk to a dangerous 25 Rk.*

Pydro v3.7.0 - ssv\pydro_Proj\340\H11045 (D)\PSS\Final_working_H11045

File Config Data Reports Window Misc Help

Tree DTON Charted New Features

- Chart Items
 - Primary
 - Non-DTONs
 - h:\h11045\w00_mb\2003
 - 669/49
 - h:\h11045\w00_mb\2003

Details Remarks Recommendations Office Notes

557 **Current Feature from Bathymetry** Status Primary

Line h:\h11045\w00_mb\2003-253052_1852

Time 2003-253:18:53:46:313 Profile 669 Beam 49

Position **41°07'12.459" -073°12'45.645"**

In Bathry Depth 7.57 meters Tide 1.15 m

(Surrounding Depth) 9.46 meters (Height) 1.90 m 12360_1

Resolved Report Chart DTon Investigate

Office QC Reject Significant Submitted Tgt Exported

DispName 669/49

Details Remarks Recommendations Office Notes

Correlating Feature from Imagery Status Secondary

Line h:\h11045\w01_sss\2003-211\ssd030730203700

Time 2003-238:23:18:30 Contact 0001 Point 1 Distance 16.72

Position **41°07'10.754" -073°12'49.325"**

(Surrounding Depth) ? Height 0.00 m Charts Affected

Resolved Report Chart DTon Investigate

Office QC Reject Significant Submitted Tgt Exported

DispName 0001

Showing contact 0001
Showing contact 0001
Showing contact 0001
Showing contact 0001
Showing contact 0001
Showing contact 0001
Showing contact 669/49
Showing contact 0001
Showing contact 669/49
Showing contact 0001
Showing contact 0001
Showing contact 0001

MS 4830 G 120
Bn 26:RX
MS Black Rock
35: Obstrn (4 ft rep)
Penfield R

Both Cur Feature Cur OGL Corr Paths Cur OGL

693.1m 121.2'

11689762 -073.20561817 100% Compressed

100% Final working_H11045.param

D.2.2 New (Uncharted) Items

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-210/257_1407

Item Description: Wreck

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12369, 12363

INVESTIGATION

Contact No: 2003-218/210_1445_1, 2003-210/257_1316_1, 2003-170/158_1610

Date(s): 170, 210, 218

Least Depth Position Number: Ping:840 Beam:240 Line Number: 210/257_1407

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°06'23.412" N, Longitude 073°13'47.071" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 17.23m corrected with verified tides. Imagery indicated the presence of a deteriorating wreck. With two subsequent passes with the side scan, the hydrographer believes this wreck was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: This wreck is 350m east of a rock cluster that was submitted as a DTON. With a least depth of 56 feet, the item is not significant but recommend non-dangerous wreck be charted at its location. *Concur in part. Chart a dangerous 56 Wreck.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-237/ 001_1813

Item Description: Wreck

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363

INVESTIGATION

Contact No: 2003-160/101_1747_1, 2003-203/100_1410_1

Date(s): 160, 203, 237

Least Depth Position Number: Ping:153 Beam:138 Line Number: 237/001_1813

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°01'32.071" N, Longitude 073°07'04.454" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 37.15m corrected with verified tides. Imagery indicated the presence of an upright wreck. The hydrographer believes this wreck was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the depth of water in which this wreck was found, the hydrographer recommends charting as 121 wk. *Concur.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-237/017_1512

Item Description: Wreck

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-160/103_1856_2, 2003-203/102_1542_1

Date(s): 160, 203, 237

Least Depth Position Number: Ping:351 Beam:120 Line Number: 237/017_1512

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°01'42.313" N, Longitude 073°14'18.213" W

Position Determined By: DGPS

Investigation Summary: This item was identified during main scheme side scan operations. SWMB revealed a least depth of 29.96m corrected with verified tides. Imagery indicated the presence of deteriorating wreck. The hydrographer believes this wreck was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the relative height of this item in relation to the surrounding bottom, the hydrographer recommends charting as wreck, non dangerous to surface navigation. *Do not concur. Shoaler soundings are in the immediate area.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-237/018_1526

Item Description: Wreck

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363

INVESTIGATION

Contact No: 2003-160/103_1858_1

Date(s): 160, 237

Least Depth Position Number: Ping:415 Beam:108 Line Number: 237/018_1526

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°01'43.784" N, Longitude 073°16'36.546" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 26.99m corrected with verified tides. Imagery indicated the presence of deteriorating wreck. The hydrographer believes this wreck was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the relative height of this item in relation to the surrounding bottom, the hydrographer recommends charting as 88 wk. *Concur. Chart a dangerous 88 Wk.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-237/020_1549

Item Description: Wreck

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-161/119_1760_1, 2003-161/118_1653_1

Date(s): 161, 237

Least Depth Position Number: Ping:653 Beam:159 Line Number: 237/020_1549

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°03'05.203" N, Longitude 073°15'23.618" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 22.39m corrected with verified tides. Imagery indicated the presence of large slab or silted-over barge.

CHARTING RECOMMENDATION

Recommendations: Due to the relative height of this item in relation to the surrounding bottom and with a currently charted sounding with the same 73-foot marking nearby, the hydrographer recommends charting as wk, non-dangerous. *Do not concur. Shoaler soundings are in the immediate area.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-237/025_1606

Item Description: Wreck

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-161/119_1759_1, 2003-202/220_1650_1

Date(s): 161, 202, 237

Least Depth Position Number: Ping:1005 Beam:122 Line Number: 237/025_1606

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°03'09.623" N, Longitude 073°17'50.349" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 18.34m corrected with verified tides. Imagery indicated the presence of an object, possibly an overturned wreck. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the relative height of this item in relation to the surrounding bottom, the hydrographer recommends charting as 60 wk. *Concur. Chart a dangerous 60 Wreck.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-237/009_1402

Item Description: Wreck

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-162/122_1313_1, 2003-203/223_1759_1

Date(s): 162, 203, 237

Least Depth Position Number: Ping:748 Beam: 74 Line Number: 237/009_1402

Investigation Used: SSS, SWMB, DI

Surveyed Position: Latitude 41°03'25.453" N, Longitude 073°10'02.750" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 19.37m corrected with verified tides. Imagery indicated the presence of a wreck. Dive investigations were conducted and the wreck was determined to be a barge. The divers least depth was 19.20m.

Copies of the dive report are included in Appendix V. *Filed with the original field data.*

CHARTING RECOMMENDATION

Recommendations: The hydrographer recommends charting as 63 wk. *Concur. Chart a dangerous 63 Wreck.*

Pydro v3.7.0 S:\Pydro_Proj\B-340\H11045 (D)\PSS\Final_working_H11045

File Config Data Reports Window Misc Help

Tree DTN Chanted New Features

- Primary
- Non-Chart
 - h:\h11045\ru00_mb\2003-237\008_1402
 - h:\h11045\ru00_mb\2003-237\001_1813
 - h:\h11045\ru00_mb\2003-237\017_1512
 - h:\h11045\ru00_mb\2003-237\018_1526
 - h:\h11045\ru00_mb\2003-237\020_1545
 - h:\h11045\ru00_mb\2003-237\025_1606
 - h:\h11045\ru00_mb\2003-237\009_1402
 - 74874**
 - h:\h11045\ru00_mb\2003-237\008_1744
 - h:\h11045\ru00_mb\2003-237\026_1632
 - h:\h11045\ru00_mb\2003-237\015_1457
 - h:\h11045\ru00_mb\2003-253\302_1346
 - h:\h11045\ru00_mb\2003-253\301_1324
 - h:\h11045\ru00_mb\2003-253\305_1442
 - h:\h11045\ru00_mb\2003-253\308_1524
 - h:\h11045\ru00_mb\2003-253\317_1631
 - h:\h11045\ru00_mb\2003-253\318_1637
 - h:\h11045\ru00_mb\2003-253\344_1657
 - h:\h11045\ru00_mb\2003-253\373_2200
 - h:\h11045\ru00_mb\2003-253\375_2151
 - h:\h11045\ru00_mb\2003-253\383_2047
 - h:\h11045\ru00_mb\2003-253\386_2051
 - h:\h11045\ru00_mb\2003-253\390_2131
 - h:\h11045\ru00_mb\2003-253\391_211E
 - h:\h11045\ru00_mb\2003-253\321_1646
 - h:\h11045\ru00_mb\2003-254\004_162C
 - h:\h11045\ru00_mb\2003-253\349_1907
 - h:\h11045\ru00_mb\2003-253\358_1934
 - h:\h11045\ru00_mb\2003-253\364_192C
 - h:\h11045\ru00_mb\2003-253\315_1617
 - h:\h11045\ru00_mb\2003-253\346_1834
 - h:\h11045\ru00_mb\2003-253\377_2034
 - h:\h11045\ru00_mb\2003-253\342_181E
 - h:\h11045\ru00_mb\2003-253\359_194C
 - h:\h11045\ru00_mb\2003-253\341_180E

Details Remarks Recommendations Office Notes

557 **Current Feature from Bathymetry** Status Primary

Line h:\h11045\ru00_mb\2003-237\009_1402

Time 2003-237-14:04:13.641 Profile 748 Beam 74

Position **41°03'25.453" - 073°10'02.750"**

In Bathy Depth 19.37 meters Tide 2.02 m

(Surrounding Depth) 22.45 meters (Height) 3.08 m 12383_1

Resolved Report Chart Investigate

Office QC Significant Submitted Tgt. Exported

DisplName 74874

Details Remarks Recommendations Office Notes

558 **Correlating Feature from Imagery** Status Secondary

Line h:\h11045\ru00_sss\2003-162\122_1313

Time 2003-167-14:42:04 Contact 0001 Point 1 Distance 9.39 m

Position **41°03'25.438" - 073°10'03.152"**

(Surrounding Depth) ? (Depth) ?

Height 3.27 m 12383_1

Resolved Report Chart Investigate

Office QC Significant Submitted Tgt. Exported

DisplName 0001

1844.1m 137.3'

100% Extracted

100.0% Bathly Loaded

Cur Feature Cur Paths Cur OGL Cor Paths Cor OGL

Bath Cur Feature Cur Paths Cur OGL Cor Paths Cor OGL

Both Cur Feature Cur Paths Cur OGL Cor Paths Cor OGL

Extracting Final_working_H11045.xml
 Extracting Final_working_H11045.tbl
 Opening C:\DOCUME~1\Hyppack\LOCALS~1\Temp\Final_working_H11045.xml features with
 Synchronizing C:\DOCUME~1\Hyppack\LOCALS~1\Temp\Final_working_H11045.xml features with
 Pydro Bathly file...
 Opening C:\DOCUME~1\Hyppack\LOCALS~1\Temp\Final_working_H11045.xml
 Opening chart...
 Opening chart...
 OpenPSS elapsed time: 9.33 sec
 Chart visible extent: 73.314686, 41.037211 to -73.279952, 41.068135
 Showing contact 74874
 Showing contact 0001
 Showing contact 0001

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-237/008_1744

Item Description: Wreck

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369, 12354

INVESTIGATION

Contact No: 2003-168/138_1664_1, 2003-209/238_1953_1

Date(s): 168, 209, 237

Least Depth Position Number: Ping: 287 Beam:141 Line Number: 237/008_1744

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°04'44.936" N, Longitude 073°06'43.706" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 38.26m corrected with verified tides. Imagery indicated the presence of a deteriorating wreck, dive operations were not conducted due to the depth. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the relative height of this item in relation to the surrounding bottom, the hydrographer recommends charting as 125 wk. *Concur. Chart a 125 Wreck*

hydro v3.7.0 S:\Pydro_Proj\B-340\H11045 (D)\PSS\Fmal_working_H11045

File Config Data Reports Window Misc Help

Tree DTGN Charted New Features

Features

- Primary
- Non-Chart
 - Report
 - h:\h11045\h000_mb\2003-210\257_1407
 - h:\h11045\h000_mb\2003-237\001_1813
 - h:\h11045\h000_mb\2003-237\017_1512
 - h:\h11045\h000_mb\2003-237\018_1526
 - h:\h11045\h000_mb\2003-237\020_1545
 - h:\h11045\h000_mb\2003-237\025_1606
 - h:\h11045\h000_mb\2003-237\009_1402
 - h:\h11045\h000_mb\2003-237\008_1744
 - 2877141
 - h:\h11045\h000_mb\2003-237\026_1632
 - h:\h11045\h000_mb\2003-237\015_1457
 - h:\h11045\h000_mb\2003-253\302_1346
 - h:\h11045\h000_mb\2003-253\301_1324
 - h:\h11045\h000_mb\2003-253\305_1442
 - h:\h11045\h000_mb\2003-253\306_1524
 - h:\h11045\h000_mb\2003-253\317_1631
 - h:\h11045\h000_mb\2003-253\318_1637
 - h:\h11045\h000_mb\2003-253\344_1657
 - h:\h11045\h000_mb\2003-253\373_2200
 - h:\h11045\h000_mb\2003-253\375_2151
 - h:\h11045\h000_mb\2003-253\383_2047
 - h:\h11045\h000_mb\2003-253\386_2051
 - h:\h11045\h000_mb\2003-253\390_2131
 - h:\h11045\h000_mb\2003-253\391_2115
 - h:\h11045\h000_mb\2003-253\321_1646
 - h:\h11045\h000_mb\2003-254\004_1620
 - h:\h11045\h000_mb\2003-253\349_1907
 - h:\h11045\h000_mb\2003-253\358_1934
 - h:\h11045\h000_mb\2003-253\364_1922
 - h:\h11045\h000_mb\2003-253\315_1617
 - h:\h11045\h000_mb\2003-253\346_1834
 - h:\h11045\h000_mb\2003-253\377_2034
 - h:\h11045\h000_mb\2003-253\342_1815
 - h:\h11045\h000_mb\2003-253\355_1940
 - h:\h11045\h000_mb\2003-253\341_1805

Details Remarks Recommendations Office Notes

557 **Current Feature from Bathymetry** Status Primary Beam 141

Line h:\h11045\h000_mb\2003-237\008_1744

Time 2003-237:17:46:03.375 Profile 287

Position **41°04'44.936" - 073°06'43.706"**

In Bathy Depth 38.26 meters Tide 0.88 m

(Surrounding Depth) 40.18 meters (Height) 1.87 m 1283_1

Resolved Report Chart DTGN Investigate

Office QC Reject Significant Submitted Tgt Exported

Displace 2877141

Details Remarks Recommendations Office Notes

Grouped Feature from Imagery Status Secondary

Line h:\h11045\h000_sss\2003-168\138_1684

Time 2003-189:15:17:16 Contact 0001 Point 1 Distance 27.98 m

Position **41°04'45.020" - 073°06'44.900"**

(Surrounding Depth) ? Height 2.60 m Charts Affected

Resolved Report Chart DTGN Investigate

Office QC Reject Significant Submitted Tgt Exported

Displace 0001

Showing contact 0001
 Opening chart: S:\Pydro_Proj\B-340\H11045 (D)\Plots\Common Tables\12354_1
 Opening chart: S:\Pydro_Proj\B-340\H11045 (D)\Plots\Common Tables\12369_1
 Drawing Bathymetry Features...
 Showing contact 2877141
 Showing contact 0001
 Opening chart: S:\Pydro_Proj\B-340\H11045 (D)\Plots\Common Tables\12354_1
 Showing contact 0001
 Opening chart: S:\Pydro_Proj\B-340\H11045 (D)\Plots\Common Tables\12354_1
 Showing contact 0001
 Opening chart: S:\Pydro_Proj\B-340\H11045 (D)\Plots\Common Tables\12369_1
 Showing contact 2877141
 Showing contact 0001
 Showing contact 2877141
 Showing contact 0001
 Showing contact 0001
 Showing contact 0001
 Showing contact 0001

Both Cur Feature Cur Paths Cur OGL Cor Paths Cor OGL

100% Extracted 385.5m 156.3'

100.00% Bathly Loaded

Item: 2003-237/026_1632

Item Description: Wreck or debris

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-169/145_1842_1, 2003-212/245_1906_1

Date(s): 169, 212, 237

Least Depth Position Number: Ping: 900 Beam:113 Line Number: 237/026_1632

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°05'22.516" N, Longitude 073°15'11.868" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 16.36m corrected with verified tides. Imagery indicated the presence of a hard slab possibly a barge. Due to the insignificant height, dive operations were not conducted. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the relative height of this item in relation to the surrounding bottom, the hydrographer recommends charting as 53 wk. *Do not concur. Shown as a 53 Wreck on the smooth sheet. This wreck is considered insignificant. Do not chart.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-237/015_1457

Item Description: Wreck

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363

INVESTIGATION

Contact No: 2003-148/103_2204_1, 2003_148/104_2155_1, 2003-148/106_1715_1,
2003-148/105_2148_1, 2003-148/106_1708_1, 2003-148/106_2141_1,
2003-148/106_2134_1

Date(s): 148, 237

Least Depth Position Number: Ping: 566 Beam: 21 Line Number: 237/015_1457

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°02'00.529" N, Longitude 073°13'28.975" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations and at the request of the Suffolk Police Department. SWMB revealed a least depth of 21.84m corrected with verified tides in 27.95m of water. Imagery indicated the presence of an airplane wreck. Dive investigations were conducted and the wreck was determined to be a twin engine Cessna. The divers least depth was not taken.

Copies of the dive report are included in Appendix V. *Filed with the original Field Data.*

CHARTING RECOMMENDATION

Recommendations: The hydrographer recommends charting as 71 wk airplane.
Concur in part. Chart a dangerous 71 Obstruction.

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/302_1346

Item Description: Rock or Obstruction

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-202/221_1755_1

Date(s): 202,253

Least Depth Position Number: Ping: 1252 Beam:167 Line Number: 253/302_1346

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°03'18.194" N, Longitude 073°12'46.484" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 21.78m corrected with verified tides. Imagery indicated the presence of a rock or similar obstruction in its scour. Due to the insignificant apparent height, dive operations were not conducted. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the relative height of this item in relation to the surrounding bottom, the hydrographer recommends charting as 71 Obstn. *Concur. Chart a dangerous 71 Obstruction.*

Pydro v3.7.0 - S:\Pydro_Proj\B-340\H11045 (D)\PSS\Final_working_H11045

File Config Data Reports Window Misc Help

Tree | DTON | Charted | New Features

Features

- Primary
- Non-Chart
 - Report
 - h:\h11045\h\00_mb\2003-210\257_1407
 - h:\h11045\h\00_mb\2003-237\001_1813
 - h:\h11045\h\00_mb\2003-237\017_1512
 - h:\h11045\h\00_mb\2003-237\018_1526
 - h:\h11045\h\00_mb\2003-237\020_1546
 - h:\h11045\h\00_mb\2003-237\025_1606
 - h:\h11045\h\00_mb\2003-237\009_1402
 - h:\h11045\h\00_mb\2003-237\008_1744
 - h:\h11045\h\00_mb\2003-237\026_1632
 - h:\h11045\h\00_mb\2003-237\015_1457
 - h:\h11045\h\00_mb\2003-253\302_1346
 - 1252/167
 - h:\h11045\h\00_mb\2003-253\301_1324
 - h:\h11045\h\00_mb\2003-253\305_1442
 - h:\h11045\h\00_mb\2003-253\308_1524
 - h:\h11045\h\00_mb\2003-253\317_1631
 - h:\h11045\h\00_mb\2003-253\318_1637
 - h:\h11045\h\00_mb\2003-253\344_1657
 - h:\h11045\h\00_mb\2003-253\373_2200
 - h:\h11045\h\00_mb\2003-253\375_2151
 - h:\h11045\h\00_mb\2003-253\383_2047
 - h:\h11045\h\00_mb\2003-253\386_2051
 - h:\h11045\h\00_mb\2003-253\390_2131
 - h:\h11045\h\00_mb\2003-253\391_2116
 - h:\h11045\h\00_mb\2003-253\321_1646
 - h:\h11045\h\00_mb\2003-254\004_1620
 - h:\h11045\h\00_mb\2003-253\343_1907
 - h:\h11045\h\00_mb\2003-253\358_1934
 - h:\h11045\h\00_mb\2003-253\315_1617
 - h:\h11045\h\00_mb\2003-253\316_1617
 - h:\h11045\h\00_mb\2003-253\345_1834
 - h:\h11045\h\00_mb\2003-253\377_2034
 - h:\h11045\h\00_mb\2003-253\342_1816
 - h:\h11045\h\00_mb\2003-253\359_1946
 - h:\h11045\h\00_mb\2003-253\341_1806

1:1252/167

RelaxScale

feet

63 64 58 60 66 67 69 70 71 72 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89

SO UN

43990 43980

Both | Cur Feature | Cur Paths | Cur 06L | Corr Feature | Corr Paths | Corr 06L

Showing contact 566/21
Showing contact 0001
Showing contact 566/21
Showing contact 0001
Showing contact 1252/167
Showing contact 0001
Showing contact 0001
Showing contact 0001
Showing contact 0001
Showing contact 0001

41.04872384 -073.19070011 | 1995.3m 110.6° | 100% Extracted | 100.0% Bathly Loaded

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/305_1442

Item Description: Rock

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369, 12354

INVESTIGATION

Contact No: 2003-169/140_1430_1, 2003-212/241_1343_1

Date(s): 169, 212, 253

Least Depth Position Number: Ping: 197 Beam: 103 Line Number: 253/305_1442

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°04'56.217" N, Longitude 073°06'54.276" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 40.77m corrected with verified tides. Imagery indicated the presence of a rock or other obstruction. Due to the water depth and apparent height, dive operations were not conducted. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the relative height of this item in relation to the surrounding bottom, the hydrographer recommends charting as 134 Obstn. *Chart as a 133 Obstn.*

Item: 2003-253/308_1524

Item Description: Rock

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-205/sdf030724141400_1

Date(s): 205, 253

Least Depth Position Number: Ping: 777 Beam: 81 Line Number: 253/308_1524

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°07'48.441" N, Longitude 073°07'08.743" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 6.19m corrected with verified tides. Imagery indicated the presence of a rock or other obstruction. Due to the shoaler soundings in the immediate area, dive operations were not conducted. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: The rock is deemed insignificant, as its height off bottom is less than the nearby sand wave to the east. The hydrographer recommends re-charting contours and soundings in area. *Concur.*

Pydro v3.7.0 S:\Pydro_Proj\B-340\H11045 (D)\P55\Final_working_H11045

File Config Data Reports Window Misc Help

Tree DTON Charted New Features

Features

- Primary
- Non-Chart
 - Report
 - h:\h11045\h\00_mb\2003-210\257_1407
 - h:\h11045\h\00_mb\2003-237\001_1813
 - h:\h11045\h\00_mb\2003-237\017_1512
 - h:\h11045\h\00_mb\2003-237\018_1526
 - h:\h11045\h\00_mb\2003-237\020_1545
 - h:\h11045\h\00_mb\2003-237\025_1606
 - h:\h11045\h\00_mb\2003-237\009_1402
 - h:\h11045\h\00_mb\2003-237\008_1744
 - h:\h11045\h\00_mb\2003-237\026_1632
 - h:\h11045\h\00_mb\2003-237\015_1457
 - h:\h11045\h\00_mb\2003-253\301_1324
 - h:\h11045\h\00_mb\2003-253\305_1442
 - h:\h11045\h\00_mb\2003-253\308_1524
 - 77781
 - h:\h11045\h\00_mb\2003-253\317_1631
 - h:\h11045\h\00_mb\2003-253\318_1637
 - h:\h11045\h\00_mb\2003-253\344_1657
 - h:\h11045\h\00_mb\2003-253\373_220C
 - h:\h11045\h\00_mb\2003-253\375_2151
 - h:\h11045\h\00_mb\2003-253\383_2047
 - h:\h11045\h\00_mb\2003-253\386_2051
 - h:\h11045\h\00_mb\2003-253\390_2131
 - h:\h11045\h\00_mb\2003-253\391_211E
 - h:\h11045\h\00_mb\2003-253\321_164E
 - h:\h11045\h\00_mb\2003-253\349_1907
 - h:\h11045\h\00_mb\2003-253\359_1934
 - h:\h11045\h\00_mb\2003-253\364_192C
 - h:\h11045\h\00_mb\2003-253\315_1617
 - h:\h11045\h\00_mb\2003-253\346_1834
 - h:\h11045\h\00_mb\2003-253\377_2034
 - h:\h11045\h\00_mb\2003-253\342_181E
 - h:\h11045\h\00_mb\2003-253\359_194C
 - h:\h11045\h\00_mb\2003-253\341_180E

Details | Remarks | Recommendations | Office Notes

557 **Current Feature from Bathymetry** Status Primary

Line h:\h11045\h\00_mb\2003-253\308_1524

Time 2003-253.15:26:07.880 Profile 777 Beam 81

Position **41°07'48.441" N, -073°07'08.743" W**

In Bathymetry Depth 6.19 meters Tide 2.19 m

(Surrounding Depth) 6.36 meters (Height) 0.17 m 12369_1

Resolved Report Chart DTON Investigate

Office OC Significant Submitted Tgt Exported

DispName 77781

Details | Remarks | Recommendations | Office Notes

Grouped Feature from Imagery Status Secondary

Line h:\h11045\h\001_ssss\2003-205\ssd030724141400

Time 2003-230.21:17:36 Contact 0001 Point 1 Distance 10.03 m

Position **41°07'48.728" N, -073°07'08.543" W**

(Surrounding Depth) ? (Depth) ? Height 0.80 m Charts Affected

Resolved Report Chart DTON Investigate

Office OC Significant Submitted Tgt Exported

DispName 0001

Showing contact 0001
Showing contact 833/84
Showing contact 0001
Showing contact 0001
Showing contact 0001
Showing contact 0001
Showing contact 833/84
Showing contact 0001
Showing contact 197/103
Showing contact 0001
Showing contact 777/81
Showing contact 0001
Showing contact 0001
Showing contact 0001

Both Cur Feature Cur Paths Cur OGL Cur Feature Cur Paths Cur OGL

No image associated with feature

100% Extracted

41.13364544, -073.10400173 13:26.4m 72.8°

100.0% Bathymetry Loaded

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/317_1631

Item Description: Rock

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-231/sdf030819195700_1, 2003-231/sdf030819194600

Date(s): 231, 253

Least Depth Position Number: Ping: 1048 Beam: 53 Line Number: 253/317_1631

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°08'36.513" N, Longitude 073°12'04.408" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 4.89m corrected with verified tides. Imagery indicated the presence of a rock or other obstruction. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: The item is deemed significant, as its least depth is 16 feet in 20 feet of surrounding water. The hydrographer recommends charting as 16 Obstrn.

Concur. Chart a dangerous 16 Obstruction.

Pydro v3.7.0 S:\pydro_Proj\B-340\H11045 (D)\PSS\Final_working_H11045

File Config Data Reports Window Misc Help

Tree DTOM Charted New Features

Features

- Primary
- Non-Chart
- Report

h/h11045/vu00_mbl/2003-210/257_1407
 h/h11045/vu00_mbl/2003-237/000_1813
 h/h11045/vu00_mbl/2003-237/017_1512
 h/h11045/vu00_mbl/2003-237/018_1526
 h/h11045/vu00_mbl/2003-237/020_1545
 h/h11045/vu00_mbl/2003-237/025_1606
 h/h11045/vu00_mbl/2003-237/009_1402
 h/h11045/vu00_mbl/2003-237/008_1744
 h/h11045/vu00_mbl/2003-237/026_1632
 h/h11045/vu00_mbl/2003-237/015_1457
 h/h11045/vu00_mbl/2003-253/302_1346
 h/h11045/vu00_mbl/2003-253/301_1324
 h/h11045/vu00_mbl/2003-253/305_1442
 h/h11045/vu00_mbl/2003-253/308_1524
 h/h11045/vu00_mbl/2003-253/317_1631
 h/h11045/vu00_mbl/2003-253/318_1637
 h/h11045/vu00_mbl/2003-253/344_1657
 h/h11045/vu00_mbl/2003-253/373_2200
 h/h11045/vu00_mbl/2003-253/375_2151
 h/h11045/vu00_mbl/2003-253/383_2047
 h/h11045/vu00_mbl/2003-253/386_2051
 h/h11045/vu00_mbl/2003-253/390_2131
 h/h11045/vu00_mbl/2003-253/391_2111
 h/h11045/vu00_mbl/2003-253/321_1646
 h/h11045/vu00_mbl/2003-254/004_1620
 h/h11045/vu00_mbl/2003-253/349_1907
 h/h11045/vu00_mbl/2003-253/358_1934
 h/h11045/vu00_mbl/2003-253/364_1922
 h/h11045/vu00_mbl/2003-253/315_1617
 h/h11045/vu00_mbl/2003-253/346_1834
 h/h11045/vu00_mbl/2003-253/377_2034
 h/h11045/vu00_mbl/2003-253/342_1811
 h/h11045/vu00_mbl/2003-253/389_1943
 h/h11045/vu00_mbl/2003-253/341_1805

Details | Remarks | Recommendations | Office Notes
 Status Primary
 Current Feature from Bathymetry
 Line h/h11045/vu00_mbl/2003-253/317_1631
 Time 2003-253.16.32.48.267 Profile 1048 Beam S3
 Position 41°08'36.513" -073°12'04.408"
 In Bathymetry Depth 4.89 meters Tide 2.19 m Chars Affected
 (Surrounding Depth) 6.20 meters (Height) 1.31 m
 Resolved Report Chart DTOM Investigate
 Office OC Significant Submitted Tgt Exported
 DispName 1048/53

Details | Remarks | Recommendations | Office Notes
 Status Secondary
 Correlating Feature from Imagery
 Line h/h11045/vu00_mbl/2003-2316s4f030819185700
 Time 2003-232.11.07.17 Contact 0001 Point 1 Distance 2.72 m
 Position 41°08'36.511" -073°12'04.525"
 (Surrounding Depth) ? (Depth) ? Height 1.28 m Chars Affected
 Resolved Report Chart DTOM Investigate
 Office OC Significant Submitted Tgt Exported
 DispName 0001

Showing contact 0001
 Showing contact 833/84
 Showing contact 0001
 Showing contact 0001
 Showing contact 197/103
 Showing contact 0001
 Showing contact 0001
 Showing contact 0001
 Showing contact 0001
 Showing contact 777/81
 Showing contact 0001
 Showing contact 0001
 Showing contact 1048/53
 Showing contact 0001
 Showing contact 0001
 Showing contact 0001

Both Cur Feature Cur Paths Cur OGL Corr Feature Corr Paths Corr OGL

100% Extracted

399.5m 248.4"

100.0% Bathymetry Loaded

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/318_1637

Item Description: Rock

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-251/sdf030908142200_1

Date(s): 251, 253

Least Depth Position Number: Ping: 1348 Beam: 113 Line Number: 253/318_1637

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°08'23.602" N, Longitude 073°12'43.923" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 5.32m corrected with verified tides. Imagery indicated the presence of a rock or other obstruction. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: The item is deemed significant, as its least depth is 17 feet in 20 feet of surrounding water. The hydrographer recommends charting as 17 Rk. *Concur. Chart a dangerous 17 Rock.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/344_1657

Item Description: Bottom Feature

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-211/sdf030730142900_1, 2003-211/sdf030730140100_1

Date(s): 211, 253

Least Depth Position Number: Ping: 1739 Beam: 21 Line Number: 253/344_1657

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°07'43.124" N, Longitude 073°12'03.339" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 7.49m corrected with verified tides. Imagery indicated the presence of a rock cluster, reef or other obstruction. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the relative height of this item in relation to the surrounding bottom, the hydrographer recommends charting as a 24 sounding. *Concur.*

Pydro v3.7.0 S:\Pydro_Proj\8-340\H11045 (D)\P55\Final_working_H11045
 File Config Data Reports Window Misc Help

Tree | DTON | Charted | New Features

Features
 Primary
 Non-Chart
 Report

Line h:\h11045\vu00_mb\2003-253\344_1657
 Status Primary
 Time 2003-253:17:00:199 Profile 1739 Beam 21
 Position 41°07'43.124", -073°12'03.339"
 In Bathymetry 7.49 meters Tide 2.05 m
 Surrounding Depth 7.77 meters (Height) 0.28 m Charts Affected
 Resolved Report Chart DTon Investigate
 Office OC Reject Significant Submitted Tgt Exported
 Displname 1739/21

Details | Remarks | Recommendations | Office Notes
 Current Feature from Bathymetry

Line h:\h11045\vu01_5ss\2003-211\5stf030730142900
 Status Secondary
 Time 2003-238:21:50:07 Contact 0001 Point 1 Distance 8.68 m
 Position 41°07'43.038", -073°12'03.693"
 Surrounding Depth (Depth) ? Height 0.00 m Charts Affected
 Resolved Report Chart DTon Investigate
 Office OC Reject Significant Submitted Tgt Exported
 Displname 0001

Details | Remarks | Recommendations | Office Notes
 Correlating Feature from Imagery

Both | Cur Feature | Cur DGL | Corr Feature | Corr DGL | Corr OGL

100% Extracted | 100.00% Bathymetry Loaded

41.1172616, -073.18629101 | 1650.6m 140.0'

Penfield Reef

20 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37

FIR 4s 43ft
 4M "2A"
 Wk
 Rks
 G "5"
 C "7"
 FIG 2.5s
 G "3"
 C "3"
 FIG 4s
 26' Rk
 26' Rk
 4 ft (ep)

Showing contact 0001
 Showing contact 0001
 Showing contact 1048/53
 Showing contact 0001
 Showing contact 0001
 Showing contact 0001
 Showing contact 1348/113
 Showing contact 0001
 Showing contact 1348/113
 Showing contact 0001
 Showing contact 0001
 Showing contact 1739/21
 Showing contact 0001
 Showing contact 0001

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/373_2200

Item Description: Obstruction

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-171/151_1542_1

Date(s): 171, 253

Least Depth Position Number: Ping: 752 Beam: 34 Line Number: 253/373_2200

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°05'51.916" N, Longitude 073°12'41.281" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 12.26m corrected with verified tides. Imagery indicated the presence of a rock or other obstruction. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the relative height of this item in relation to the surrounding bottom, the hydrographer recommends charting as 40 Obstn. *Concur. Chart a dangerous 40 Obstruction.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/375_2151

Item Description: Wreck

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-171/153_1732_1

Date(s): 171, 253

Least Depth Position Number: Ping: 1004 Beam: 86 Line Number: 253/375_2151

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°06'02.089" N, Longitude 073°14'13.876" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 14.59m corrected with verified tides. Imagery indicated the presence of a wreck sitting in a scour. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the relative height of this item in relation to the surrounding bottom, the hydrographer recommends charting as 48 non-dangerous wreck. *Concur in part. Chart a dangerous 48 Wreck.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/383_2047

Item Description: Rocky Area

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-237/sdf030825153100_1, 2003-237/sdf030825154100_1

Date(s): 237, 253

Least Depth Position Number: Ping: 525 Beam: 107 Line Number: 253/383_2047

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°06'42.007" N, Longitude 073°15'16.485" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. It has been noted that rocky areas extend 500m south-eastward from the current blue highlighted area on chart 12363 in the area of Penfield Reef and The Cows. Due to the nature of the area, least depths are taken on the largest rock in the development. Here, SWMB revealed a least depth of 6.13m corrected with verified tides. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the nature of this area, the hydrographer recommends charting as 20 Rks. *Concur w/clarification. Chart present survey soundings and notation rky.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/386_2051

Item Description: Rocky Area

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-250/sdf030907173100_1, 2003-237/sdf030825163300_1, 2003-239/sdf030827141900_1

Date(s): 237, 239, 250, 253

Least Depth Position Number: Ping: 682 Beam: 219 Line Number: 253/386_2051

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°06'42.982" N, Longitude 073°15'29.659" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. It has been noted that rocky areas extend 500m south-eastward from the current blue highlighted area (18-ft curve) on chart 12363 in the area of Penfield Reef and The Cows. Due to the nature of the area, least depths are taken on the largest rock in the development. Here, SWMB revealed a least depth of 5.43m corrected with verified tides. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the nature of this area, the hydrographer recommends charting as 18 Rks. *Concur in part, chart a dangerous 18 Rk.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/390_2131

Item Description: Rocky Area

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-250/sdf030907195900_1, 2003-234/sdf030822122000_2, 2003-250/sdf030907194400_1, 2003-253/391_2115

Date(s): 234, 250, 253

Least Depth Position Number: Ping: 1042 Beam: 2 Line Number: 253/390_2131

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°06'54.435" N, Longitude 073°17'46.677" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. It has been noted that rocky areas extend 500m south-eastward from the current blue highlighted area (18-ft curve) on chart 12363 in the area of Penfield Reef and The Cows. Due to the nature of the area, least depths are taken on the largest rock in the development. Here, SWMB revealed a least depth of 4.76m corrected with verified tides. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the nature of this area, the hydrographer recommends charting as 15 Rks. *Do not concur, denote the area rky and adjust the 18 ft. contour.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-254/004_1620

Item Description: Obstruction

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-239/sdf030827140000_1, 2003-250/sdf030907202300_1

Date(s): 239, 250, 254

Least Depth Position Number: Ping: 325 Beam: 8 Line Number: 254/004_1620

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°06'39.980" N, Longitude 073°13'17.460" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 10.80m corrected with verified tides. Imagery indicated the presence of an overturned wreck or other obstruction. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: This item with least depth of 35 feet is on a charted sounding of 41 feet, therefore the hydrographer recommends charting as 35 Obstn. *Concur. Chart a dangerous 35 Obstruction.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-237/021_1538

Item Description: Wreck

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-149/109_1912_1

Date(s): 149, 237

Least Depth Position Number: Ping: 808 Beam: 1 Line Number: 237/021_1538

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°02'18.360" N, Longitude 073°16'29.391" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 22.07m corrected with verified tides. Imagery indicated the presence of a small wreck. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the depth of surrounding water, this wreck is non-dangerous. The hydrographer recommends charting as 72 Wk. *Concur. Chart a dangerous 72 Wreck.*

Pydro v3.7.0 S:\Pydro_Proj\B-340\H11045 (D)\PSS\Final_working_H11045

File Config Data Reports Window Misc Help

Tree DTON Charted New Features

Features

- Primary
- Non-Chart
 - Report
 - 8087118
 - h:\h11045\ru00_mb\2003-237\005_1326
 - h:\h11045\ru00_mb\2003-237\017_1512
 - h:\h11045\ru00_mb\2003-237\018_1526
 - h:\h11045\ru00_mb\2003-237\020_1549
 - h:\h11045\ru00_mb\2003-237\025_1606
 - h:\h11045\ru00_mb\2003-237\008_1402
 - h:\h11045\ru00_mb\2003-237\008_1744
 - h:\h11045\ru00_mb\2003-237\026_1632
 - h:\h11045\ru00_mb\2003-237\015_1457
 - h:\h11045\ru00_mb\2003-253\302_1346
 - h:\h11045\ru00_mb\2003-253\305_1442
 - h:\h11045\ru00_mb\2003-253\308_1524
 - h:\h11045\ru00_mb\2003-253\317_1631
 - h:\h11045\ru00_mb\2003-253\318_1637
 - h:\h11045\ru00_mb\2003-253\344_1657
 - h:\h11045\ru00_mb\2003-253\373_2200
 - h:\h11045\ru00_mb\2003-253\375_2151
 - h:\h11045\ru00_mb\2003-253\383_2047
 - h:\h11045\ru00_mb\2003-253\386_2051
 - h:\h11045\ru00_mb\2003-253\390_2131
 - h:\h11045\ru00_mb\2003-253\391_2115
 - h:\h11045\ru00_mb\2003-254\004_1620
 - h:\h11045\ru00_mb\2003-253\349_1907
 - h:\h11045\ru00_mb\2003-253\358_1934
 - h:\h11045\ru00_mb\2003-253\364_1923
 - h:\h11045\ru00_mb\2003-253\377_2034
 - h:\h11045\ru00_mb\2003-253\359_1943
 - h:\h11045\ru00_mb\2002-212\156_2154

Details Remarks Recommendations Office Notes

S57

Current Feature from Bathymetry

Line h:\h11045\ru00_mb\2003-237\021_1538

Status Primary

Time 2003-237-15:38:51.711 Profile: 808 Beam: 1

Position **41°02'18.360" N, -073°16'29.351" W**

In Bathymetry Depth: 72.40 feet Tide: 1.83 m

(Surrounding Depth) 75.61 feet (Height) 0.83 m

Resolved Report Chart DTON Investigate

Office GC Reject Significant Submitted Tgt Export

Displane 8087118

Details Remarks Recommendations Office Notes

Correlating Feature from Imagery

Line h:\h11045\ru00_sss\2003-149\09_1812

Status Secondary

Time 2003-160-12:16:44 Contact: 0001 Point: 1 Distance

Position **41.03845910 N, -073.27486110 W**

(Surrounding Depth) ? (Depth) ?

Height 1.22 m

Resolved Report Chart DTON Investigate

Office GC Reject Significant Submitted Tgt Export

Displane 10001

Drawing Bathymetry Features...

- Showing contact 153/138
- Showing contact 0001
- Showing contact 0001
- Drawing Bathymetry Features...
- Showing contact 840/240
- Showing contact 0001
- Showing contact 0001
- Showing contact 153/138
- Showing contact 0001
- Showing contact 0001
- Chart visible extent: -73.152270, 41.008657 to -73.063538, 41.042493
- Chart visible extent: -73.135677, 41.008657 to -73.100131, 41.042493
- Drawing Bathymetry Features...
- Showing contact 808/718
- Showing contact 0001
- Showing contact 0001
- Showing contact 0001

Both Cur Feature Cur DGL Cor Palts Cor DGL Cor Palts Cor DGL

100% Extracted 1770.0m, 126.8° 100.0% Bathym Loaded

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-237/005_1326

Item Description: Wreck

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-150/112_1223_1

Date(s): 150, 237

Least Depth Position Number: Ping: 720 Beam:151 Line Number: 237/005_1326

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°02'33.126" N, Longitude 073°07'50.549" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 25.92m corrected with verified tides. Imagery indicated the presence of a wreck. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the surrounding depths of this area, the hydrographer recommends charting as 85 Wk. *Concur. Chart a dangerous 85 Wreck.*

Pydro v3.7.0 S:\Pydro_Proj\B-340\H11045 (D)\PSS\Final_working_H11045

File Config Data Reports Window Misc Help

Retain Scale feet

DTON Chained New Features

Features

- Primary
- Non-Chart
 - Report
 - h:\h11045\m00_mb\2003-237\017_1407
 - h:\h11045\m00_mb\2003-237\001_1813
 - h:\h11045\m00_mb\2003-237\021_1538
 - h:\h11045\m00_mb\2003-237\005_1326
 - 720151
 - h:\h11045\m00_mb\2003-237\017_1512
 - h:\h11045\m00_mb\2003-237\018_1526
 - h:\h11045\m00_mb\2003-237\020_1549
 - h:\h11045\m00_mb\2003-237\025_1606
 - h:\h11045\m00_mb\2003-237\009_1402
 - h:\h11045\m00_mb\2003-237\008_1744
 - h:\h11045\m00_mb\2003-237\026_1632
 - h:\h11045\m00_mb\2003-237\015_1457
 - h:\h11045\m00_mb\2003-253\302_1346
 - h:\h11045\m00_mb\2003-253\305_1442
 - h:\h11045\m00_mb\2003-253\308_1524
 - h:\h11045\m00_mb\2003-253\317_1631
 - h:\h11045\m00_mb\2003-253\318_1637
 - h:\h11045\m00_mb\2003-253\344_1657
 - h:\h11045\m00_mb\2003-253\373_2200
 - h:\h11045\m00_mb\2003-253\375_2151
 - h:\h11045\m00_mb\2003-253\383_2047
 - h:\h11045\m00_mb\2003-253\386_2051
 - h:\h11045\m00_mb\2003-253\390_2131
 - h:\h11045\m00_mb\2003-253\391_2115
 - h:\h11045\m00_mb\2003-254\004_1620
 - h:\h11045\m00_mb\2003-253\349_1907
 - h:\h11045\m00_mb\2003-253\358_1934
 - h:\h11045\m00_mb\2003-253\364_1923
 - h:\h11045\m00_mb\2003-253\377_2034
 - h:\h11045\m00_mb\2003-253\359_1943
 - h:\h11045\m00_mb\2002-212\156_2154

Details Remarks Recommendations Office Notes

557 **Current Feature from Bathymetry** Status Primary

Line h:\h11045\m00_mb\2003-237\005_1326

Time 2003-237\13:29:29.872 Profile 720 Beam 1

Position **41 02 33.126" -073 07 50.549"**

In Bathy Depth 85.04 feet Tide 1.92 m

(Surrounding Depth) 85.27 feet (Height) 3.12 m Charts Affected

Resolved Report Chart DTON Investigate

Office OC Reject Significant Submitted Tgt Exported

DispName 720151

Details Remarks Recommendations Office Notes

Grouped Feature from Imagery Status Secondary

Line h:\h11045\m00_sss\2003-150\112_1223

Time 2003-151 02:59:42 Contact 0001 Point 1 Distance 36.23

Position **41 04 24 9480 -073 13 02 8010**

(Surrounding Depth) ? (Depth) ? Height 0.00 m Charts Affected

Resolved Report Chart DTON Investigate

Office OC Reject Significant Submitted Tgt Exported

DispName 0001

Chat visible extent: -73.135677, 41.008657 to -73.100131, 41.042493

Drawing Bathy/Features...

Showing contact 808/118

Showing contact 0001

Showing contact 0001

Showing contact 0001

Showing contact 720/151

Showing contact 0001

Showing contact 0001

Showing contact 0001

Chat visible extent: -73.148409, 41.025617 to -73.113007, 41.059453

Chat visible extent: -73.147800, 41.025617 to -73.113616, 41.059453

Chat visible extent: -73.147001, 41.025617 to -73.114415, 41.059453

Chat visible extent: -73.146658, 41.025617 to -73.114758, 41.059453

Showing contact 0001

Showing contact 0001

Showing contact 0001

Both Cur Feature Cur Paths Cur DGL Cur Features Cur Paths Cur DGL

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/359_1943

Item Description: Rock(s)

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-250/sdf030907204700_4, 2003-250/sdf030907204700_5, 2003-251/sdf030908150800_4

Date(s): 250, 251, 253

Least Depth Position Number: Ping: 1815 Beam: 222 Line Number: 253/359_1943

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°06'46.496" N, Longitude 073°13'24.668" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations in an area of charted rocks off The Cows. SWMB revealed a least depth of 5.00m corrected with verified tides. Imagery indicated the presence of several rocks. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the nature of this area, the hydrographer recommends charting as 16 Rks and revising the 18-ft contour and blue area. *Concur in part. Add the notation rocky and chart shoaler depths of 13 to 14 feet.*

Pydro v3.7.0 S:\Pydro_Proj\B-340\H11045 (D)\PSS\Final_working_H11045

File Config Data Reports Window Misc Help

Tree DTON Charted New Features

Features

- [-] Primary
- [-] Non-Chart
 - [-] Report
 - [-] h:\h11045\ru00_mb\2003-210\257_1407
 - [-] h:\h11045\ru00_mb\2003-237\001_1813
 - [-] h:\h11045\ru00_mb\2003-237\021_1538
 - [-] h:\h11045\ru00_mb\2003-237\005_1326
 - [-] h:\h11045\ru00_mb\2003-237\017_1512
 - [-] h:\h11045\ru00_mb\2003-237\018_1526
 - [-] h:\h11045\ru00_mb\2003-237\020_1549
 - [-] h:\h11045\ru00_mb\2003-237\025_1606
 - [-] h:\h11045\ru00_mb\2003-237\009_1402
 - [-] h:\h11045\ru00_mb\2003-237\008_1744
 - [-] h:\h11045\ru00_mb\2003-237\026_1632
 - [-] h:\h11045\ru00_mb\2003-237\015_1457
 - [-] h:\h11045\ru00_mb\2003-253\302_1346
 - [-] h:\h11045\ru00_mb\2003-253\305_1442
 - [-] h:\h11045\ru00_mb\2003-253\308_1524
 - [-] h:\h11045\ru00_mb\2003-253\317_1631
 - [-] h:\h11045\ru00_mb\2003-253\318_1637
 - [-] h:\h11045\ru00_mb\2003-253\344_1657
 - [-] h:\h11045\ru00_mb\2003-253\373_2200
 - [-] h:\h11045\ru00_mb\2003-253\375_2151
 - [-] h:\h11045\ru00_mb\2003-253\383_2047
 - [-] h:\h11045\ru00_mb\2003-253\386_2051
 - [-] h:\h11045\ru00_mb\2003-253\390_2131
 - [-] h:\h11045\ru00_mb\2003-253\391_2115
 - [-] h:\h11045\ru00_mb\2003-254\004_1620
 - [-] h:\h11045\ru00_mb\2003-253\349_1907
 - [-] h:\h11045\ru00_mb\2003-253\358_1934
 - [-] h:\h11045\ru00_mb\2003-253\364_1923
 - [-] h:\h11045\ru00_mb\2003-253\377_2034
 - [-] h:\h11045\ru00_mb\2003-253\359_1943
 - [-] 1815/222
 - [-] h:\h11045\ru00_mb\2002-212\156_2154

Retain Scale feet

Details Remarks Recommendations Office Notes

SS7

Current Feature from Bathymetry

Status Primary

Line h:\h11045\ru00_mb\2003-253\359_1943

Time 2003-253-19-46:13.706 Profile 1815 Beam 222

Position 41°06'46.496" -073°13'24.688"

In Bathy Depth 16.40 feet Tide 0.71 m

(Surrounding Depth) 18.95 feet (Height) 0.78 m Charts Affected

Resolved Report Chart DTON Investigate

Office GC Report Significant Submitted Tgt Exported

DispName 1815/222

Details Remarks Recommendations Office Notes

Correlating Feature from Imagery

Status Secondary

Line h:\h11045\ru01_sss\2003-250\sssf636907204700

Time 2003-251-10-19.35 Contact 0004 Point 1 Distance 21.30

Position 41°06'46.165" -073°13'23.867"

(Depth) ?

(Surrounding Depth) ?

Height 1.83 m Charts Affected

Resolved Report Chart DTON Investigate

Office GC Report Significant Submitted Tgt Exported

DispName 0004

Showing contact 720/151

Showing contact 0001

Showing contact 0001

Showing contact 0001

Showing contact 0001

Chart visible extent: -73.148403, 41.025617 to -73.113007, 41.059453

Chart visible extent: -73.147800, 41.025617 to -73.113616, 41.059453

Chart visible extent: -73.147001, 41.025617 to -73.114415, 41.059453

Chart visible extent: -73.146558, 41.025617 to -73.114758, 41.059453

Showing contact 0001

Showing contact 0001

Showing contact 0001

Showing contact 1815/222

Showing contact 0004

Showing contact 0005

Showing contact 0004

Showing contact 0007

Showing contact 0004

100% Extracted

100% Bathy Loaded

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/349_1907

Item Description: Rock

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-211/sdf030730172600_2, 2003-211/sdf030730172600_3

Date(s): 211, 253

Least Depth Position Number: Ping: 1315 Beam: 63 Line Number: 253/349_1907

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°07'04.106" N, Longitude 073°12'55.883" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations in an area of charted rocks off The Cows. SWMB revealed a least depth of 9.87m corrected with verified tides. Imagery indicated the presence of two rocks. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the nature of this area, the hydrographer recommends charting as 32 Rks. *Concur. Chart 32 ft. depth and add the notation rky.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/349_1907

Item Description: Rock Outcrop

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-233/sdf030821192100_1

Date(s): 233, 253

Least Depth Position Number: Ping: 778 Beam: 3 Line Number: 253/349_1907

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°07'09.308" N, Longitude 073°12'53.671" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations in an area of charted rocks off The Cows. SWMB revealed a least depth of 9.04m corrected with verified tides. Imagery indicated the presence of an outcropping. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the nature of this area, the hydrographer recommends charting as 29 Rky. *Concur.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/358_1934

Item Description: Rocky Area

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-233/sdf030821191300_2, 2003-251/sdf030908150800_3, 2003-250/sdf030907204700_7, 2003-233/sdf030821191300_1, 2003-250/sdf030907204700_3

Date(s): 233, 250, 251, 253

Least Depth Position Number: Ping: 1282 Beam: 40 Line Number: 253/358_1934

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°06'48.680" N, Longitude 073°13'20.381" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations in an area of charted rocks off The Cows. SWMB revealed a least depth of 4.94m corrected with verified tides. Imagery indicated the presence of several rocks in the area. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the nature of this area, the hydrographer recommends that the least depth of 16 feet be charted, denoted as rky and extending the 18-foot curve accordingly. *Do not concur, chart representative soundings in the common area.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/364_1923

Item Description: Rocky Area

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-233/sdf030821191700_1

Date(s): 233, 253

Least Depth Position Number: Ping: 1481 Beam: 197 Line Number: 253/364_1923

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°06'53.385" N, Longitude 073°13'13.597" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations in an area of charted rocks off The Cows. SWMB revealed a least depth of 6.16m corrected with verified tides. Imagery indicated the presence of several rocks in the area. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the nature of this area, the hydrographer recommends charting as 20 rky. *Concur in part. Chart representative soundings in the common area and add notation rky.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/377_2034

Item Description: Rocky Area

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-234/sdf030822160600_2, 2003-239/sdf030827133100_2, 2003-182/sdf30701155500_1

Date(s): 182, 234, 239, 253

Least Depth Position Number: Ping: 208 Beam: 116 Line Number: 253/377_2034

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°06'33.875" N, Longitude 073°15'09.248" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations in an area of charted rocks off The Cows. SWMB revealed a least depth of 6.70m corrected with verified tides. Imagery indicated the presence of several rocks in the area. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: Due to the nature of this area, the hydrographer recommends charting as 22 rky. *Concur. Add the notation rky.*

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/364_1923

Item Description: Rocks

Source: New Item

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-233/sdf030821190300_1, 2003-211/sdf030730200200_1

Date(s): 211, 233, 253

Least Depth Position Number: Ping: 718 Beam: 178 Line Number: 253/364_1923

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°06'57.470" N, Longitude 073°13'07.740" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations . SWMB revealed a least depth of 6.04m corrected with verified tides. Imagery indicated the presence of a group of rocks near The Cows where rocks awash symbols abound. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: This is already a general rocky area charted however, these rocks are outside the current 18-foot curve. Therefore, the hydrographer recommends charting as 20 rky. *Do not concur. Chart representative soundings, denote the area rky and revise the 18 ft. contour.*

D.2.3 Charted Items

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-237/011_1427

Item Description: Charted Wreck

Source: ~~Chart 12363~~ *AWOIS # 7700 [JCM, 12/23/04]*

Item Position: N/A **Radius:** N/A

Charts Affected: 12363

INVESTIGATION

Contact No: 2003-160/103_1854_1, 2003-148/104_1341_1

Date(s): 148, 160, 237

Least Depth Position Number: Ping: 429 Beam: 113 Line Number: 237/011_1427

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°01'47.475" N, Longitude 073°10'17.457" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 30.93m corrected with verified tides. Imagery indicated the presence of a confirmed wreck. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: The observed wreck is 23 meters south of charted position. The hydrographer recommends repositioning the charted position of the non-dangerous wreck with least depth of 101 feet. *Concur. Revise sunken Wreck to 101 Wreck.*

Pydro v3.7.0 - 5x Pydro_Proj\B-340\H11045 (D)\P5x\Final_working_H11045

File Config Data Reports Window Misc Help

Tree | DTON | Chatred | New Features

- Features
 - Chart Items
 - Primary
 - Non-D Tols
 - k/h11045/n00_mb/2003_429/113
 - k/h11045/n00_mb/2003
 - k/h11045/n00_mb/2003
 - k/h11045/n00_mb/2003
 - k/h11045/n00_mb/2003
 - k/h11045/n00_mb/2003
 - k/h11045/n00_mb/2003

Details | Remarks | Recommendations | Office Notes

557 **Current Feature from Bathymetry** Status Primary

Line k/h11045/n00_mb/2003-237/011_1427

Time 2003-237:14:28:47.893 Profile 429 Beam 113

Position **41°01'47.475" N, -073°10'17.457" W**

In Battry Depth 101.49 feet Tide 2.03 m

(Surrounding Depth) 107.03 feet (Height) 1.69 m 12383_1

Resolved Report Chart DToN Investigate

Office OC Reject Significant Submitted Tgt_Exported

Displname 429M113

Details | Remarks | Recommendations | Office Notes

Grouped Features from Imagery Status Secondary

Line k/h11045/n00_sss/2003-160/103_1854

Time 2003-161:13:38:44 Contact 0001 Point 1 Distance 95.52

Position **41°01'47.183" N, -073°10'21.532" W**

(Depth) ?

(Surrounding Depth) ?

Height 1.84 m Chats Affected

Resolved Report Chart DToN Investigate

Office OC Significant Submitted Tgt_Exported

Displname 0001

Drawing Bathy/Features...
 Contact not found in tree
 Showing contact 429/113
 Showing contact 0001
 Showing contact 0001
 Showing contact 0001
 Showing contact 429/113
 Showing contact 0001
 Showing contact 0001
 Showing contact 429/113
 Showing contact 0001
 Showing contact 429/113
 Showing contact 0001
 Showing contact 0001
 Showing contact 0001

95 96 116

26670

Both | Cur Feature | Cur Paths | Cur OGL | Corr Feature | Corr Paths | Corr OGL

808.5m 119.8'

41.02625621, -073.16315632

100% Compressed

100% Final working_H11045.param

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-237/011_1434

Item Description: Charted Wreck

Source: ~~Chart 12363~~ *AWOIS # 7698 [JCM, 12/23/04]*

Item Position: N/A

Radius: N/A

Charts Affected: 12363

INVESTIGATION

Contact No: 2003-160/103_1854_2

Date(s): 160, 237

Least Depth Position Number: Ping: 292 Beam: 171 Line Number: 237/011_1434

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°01'45.191" N, Longitude 073°10'26.572" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations . SWMB revealed a least depth of 31.60m corrected with verified tides. Imagery indicated the presence of a confirmed wreck sitting in its scour. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: The observed wreck is 16 meters south of charted position. The hydrographer recommends retaining the charted non-dangerous wreck using the position from this survey. *Concur. Revise sunken Wreck to 103 Wreck.*

Pydro v3.7.0 - s:\pydro - Proj\1045\HI1045 (D)\PSS\Final_working_HI1045

File Config Data Reports Window Misc Help

Tree DTON Charted New Features

- Chart Items
 - Primary
 - Non-DTONs
 - h:\h11045\w00_mb\2003
 - h:\h11045\w00_mb\2003
 - h:\h11045\w00_mb\2003
 - h:\h11045\w00_mb\2003
 - h:\h11045\w00_mb\2003
 - h:\h11045\w00_mb\2003
 - h:\h11045\w00_mb\2003
 - L_292/171

Details Remarks Recommendations Office Notes

557 **Current Feature from Bathymetry** Status Primary

Line h:\h11045\w00_mb\2003-237/011_1434

Time 2003-237.14:35:03.409 Profile 292 Beam 171

Position **41°01'45.191" -073°10'26.572"**

In Bathry Depth 103.69 feet Tide 2.01 m

(Surrounding Depth) ? (Height) ? 12363.1

Resolved Report Chart DTon Investigate

Office QC Reject Significant Submitted Tgt Exported

DispName 292/171

Details Remarks Recommendations Office Notes

Grouped Feature from Imagery Status Secondary

Line h:\h11045\w00_sss\2003-160103_1854

Time 2003-161.13:42:39 Contact 0002 Point 1 Distance 95.74

Position **41°01'45.124" -073°10'30.674"**

(Depth) ?

(Surrounding Depth) ? Height 0.00 m 12363.1

Resolved Report Chart DTon Investigate

Office QC Reject Significant Submitted Tgt Exported

DispName 0002

Showing contact 0001
Showing contact 429/113
Showing contact 0001
Showing contact 0001
Showing contact 429/113
Showing contact 0001
Showing contact 429/113
Showing contact 0001
Showing contact 0001
Showing contact 292/171
Showing contact 0002
Showing contact 0002
Showing contact 0002

95 116 96

98

Both Cur Feature Cur Paths Cur OGL Corr Feature Corr Paths Corr OGL

150.4m 206.8'

100% Final working HI1045.param

100% Compressed

H11045

NOAA Ship RUDE

April 6, 2004

Item: 2003-253/327a1705

Item Description: Charted Wk

Source: Chart 12363

Item Position: N/A

Radius: N/A

Charts Affected: 12363, 12369

INVESTIGATION

Contact No: 2003-232/sdf030820221200_2, 2003-232/sdf030820221200_1

Date(s): 232, 253

Least Depth Position Number: Ping: 447 Beam: 168 Line Number: 253/327a1705

Investigation Used: SSS, SWMB

Surveyed Position: Latitude 41°07'50.384" N, Longitude 073°12'44.542" W

Position Determined By: DGPS

Investigation Summary: This item was identified during mainscheme side scan operations. SWMB revealed a least depth of 6.99m corrected with verified tides. Imagery indicated the presence of a deteriorated wreck. The hydrographer believes this item was investigated adequately to warrant representation on the chart.

CHARTING RECOMMENDATION

Recommendations: The position of the contact shows good placement within the 22-foot designation shown on the chart. The hydrographer recommends retaining the charted feature. *Concur. Revise dangerous 22 Wk to a dangerous 23 Wk.*

Shoreline

The Hydrographic Survey Letter Instructions for OPR-B340-RU do not require formal shoreline investigation. Slight discrepancies were noted with the addition of some floating piers and mooring buoys in Black Rock Channel and Bridgeport Channel. The hydrographer recommends updated photogrammetry of the area mentioned. *Concur.*

Prior Survey Comparison

No prior survey comparison was conducted.

Aids to Navigation *See also the Evaluation Report.*

Detached Positions (DPs) were acquired at 2 fixed and 43 floating Aids to Navigation. All aids were DP'd bow to from Launch 1419.

ATON	Observed Position (Latitude)	(Longitude)	Distance off Station (chart from actual, m)
R"22"	41°06'29.705"N	073°15'47.354"W	15m 070°
Oyster Stakes	41°06'26.347"N	073°15'36.180"W	Not charted
G "LC" BELL	41°07'19.921"N	073°12'52.227"W	Not charted*
Danger Buoy Or/Wh	41°07'13.316"N	073°12'59.913"W	Not charted
G C "13"	41°09'21.730"N	073°12'52.721"W	3m 114°
R N "12"	41°09'17.099"N	073°12'55.841"W	5m 065°
Floating Pier	41°09'16.733"N	073°12'54.388"W	Not charted
G C "11"	41°09'06.854"N	073°13'08.366"W	19m 340°
R N "10"	41°09'03.969"N	073°13'07.077"W	8m 123°
G C "9"	41°08'50.530"N	073°13'14.926"W	6m 065°
R N "8"	41°08'38.473"N	073°13'16.176"W	9m 091°
R N "6"	41°08'31.132"N	073°13'15.650"W	6m 134°
R N "4"	41°08'18.350"N	073°13'11.517"W	11m 090°
RW "BH" WHIS	41°06'14.901"N	073°11'44.877"W	32m 133°
R N "2"	41°07'10.876"N	073°17'08.072"W	3m 067°
G C "3"	41°07'13.705"N	073°17'11.171"W	8m 339°
R N "4"	41°07'16.578"N	073°17'09.380"W	11m 304°
G C "5"	41°07'16.643"N	073°17'11.851"W	5m 330°

**Buoy is not shown on the latest edition of the printed nautical charts but is shown on the electronic BSB charts. Defer to Marine Chart Division (MCD) Update Services Branch for charting recommendations for Aids to Navigation.*

ATON	Observed Position		Distance off Station (chart from actual, m)
	(Latitude)	(Longitude)	
R N "8"	41°07'23.160"N	073°17'11.596"W	9m 000°
G C "9"	41°07'26.365"N	073°17'13.880"W	13m 317°
R N "10"	41°07'30.959"N	073°17'15.919"W	43m 358°
G C "11"	41°07'31.640"N	073°17'17.405"W	6m 078°
G R C "YM"	41°10'21.115"N	073°10'45.007"W	15m 037°
G C "21"	41°10'08.413"N	073°10'36.848"W	8m 012°
R N "2"	41°09'56.725"N	073°10'12.770"W	6m 110°
G "19" Q G	41°09'59.722"N	073°10'34.360"W	6m 335°
R "16" Fl R 2.5s	41°09'40.372"N	073°10'35.078"W	3m 342°
G C "15"	41°09'41.448"N	073°10'40.387"W	5m 156°
R N "14"	41°09'26.386"N	073°10'39.815"W	14m 024°
R N "12"	41°09'12.867"N	073°10'44.155"W	8m 047°
G C "13"	41°09'13.794"N	073°10'48.550"W	8m 302°
G C "11"	41°08'55.236"N	073°10'55.022"W	3m 116°
R "10" Fl R 2.5s bell	41°08'54.598"N	073°10'49.799"W	9m 180°
R N "8"	41°08'29.894"N	073°10'57.565"W	4m 110°
G "9" Fl G 4s	41°08'31.095"N	073°11'02.715"W	11m 154°
G C "7"	41°08'06.493"N	073°11'10.265"W	7m 144°
R "6" Fl R 4s	41°08'05.872"N	073°11'05.417"W	16m 146°
R N "4"	41°07'41.293"N	073°11'12.937"W	7m 144°
G "5" Fl G 2.5s	41°07'41.778"N	073°11'18.293"W	13m 065°
G C "3"	41°07'21.524"N	073°11'24.323"W	7m 155°
R "2" Fl R 2.5s gong	41°07'17.466"N	073°11'20.368"W	10m 145°
Y "C" Q Y Priv	41°06'49.442"N	073°15'10.166"W	40m 205°
Y "D" Q Y Priv	41°06'49.265"N	073°15'14.481"W	50m 272°
Y "B" Q Y Priv	41°06'47.280"N	073°15'11.962"W	40m 261°
Y "A" Q Y Priv	41°06'46.912"N	073°15'14.212"W	130m 353°

The hydrographer recommends ATONs listed above highlighted in bold type be adjusted to reflect their true position on the next chart edition. *Concur. Defer to MCD Update Services Branch for charting recommendations for Aids to Navigation.*

The following ATONs were not DP'd due to their inaccessibility but appeared as charted or not found:

ATON	Charted Position		Remarks
Fixed Aid Fl R 4s 28ft 4M "12"	41°07'33.72"N	073°17'13.35"W	As charted

ATONS (Cont'd)	Charted Position		Remarks
Dayboard Bn W □	41°07'14.50"N	073°13'02.80"W	Not seen
Fixed Aid Fl R 6s 51 ft 15 M Horn	41°07'01.68"N	073°13'19.46"W	As charted
Fixed Aid Fl R 4s 43ft 4M "2A"	41°08'13.53"N	073°13'02.08"W	As charted
Fixed Aid Fl G 4s 22ft 4M	41°08'34.41"N	073°13'21.00"W	As charted
Fixed Aid Q G 50ft 5M "13A"	41°09'24.22"N	073°10'47.82"W	As charted
Fixed Aid Fl R 4s 27ft 4M "12A"	41°09'17.51"N	073°10'36.30"W	As charted
Fixed Aid Fl G 4s 31ft 5M	41°09'59.94"N	073°10'38.88"W	As charted
Buoy R N "4" (Newfield Reach)	41°09'56.58"N	073°09'49.26"W	As charted
Buoy R N "8" (Newfield Reach)	41°10'12.66"N	073°09'47.68"W	As charted
Buoy R N "20"	41°07'50.08"N	073°07'29.51"W	As charted
Buoy R "18" Fl R 4s Bell	41°06'49.14"N	073°08'09.30"W	As charted

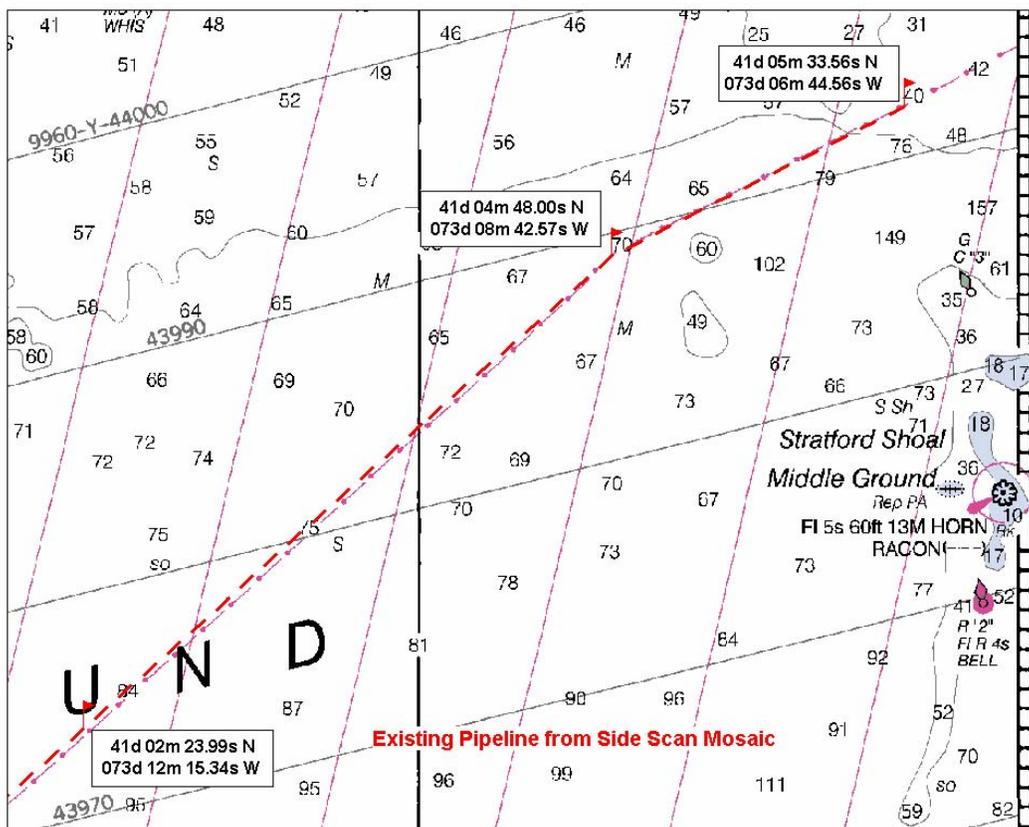
Defer to MCD Update Services Branch for charting recommendations for Aids to Navigation.

Ferry Routes

There is an "understood" ferry route that runs back and forth from Port Jefferson, NY to Bridgeport, CT. "P.T. Barnum", "Park City", and "Grand Republic" enter the survey area at the southeast corner, continues NNW and then changes course to WNW, entering the Bridgeport channel between buoys "4" and "6". Some modifications were noticed during times of heavy weather with strong northeast or southwest winds.

Submarine Cables and Pipelines

Running southwest to northeast is a charted pipeline. Sidescan mosaics were used to verify the charted route. Below is a chartlet showing the pipeline along with the actual surveyed pipeline. Positions are indicated where the line ends at the survey limits and the point in which the pipeline changes direction. The hydrographer recommends updating the chart with the latest accurate layout. *Concur.*



Bottom Samples

Bottom sediment samples were collected at 49 sites in the survey area. With a few exceptions, the bottom characteristic is that of sticky green mud with traces of fine sand or shell. The hydrographer recommends updating the charts with the given characteristics listed on the Oceanographic Log Sheet for Bottom Sediment Data (NOAA Form 75-44) in Appendix V*, Supplemental Survey Records and Correspondence.

**Filed with the original field data.*

E. APPROVAL SHEET

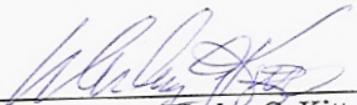
LETTER OF APPROVAL

REGISTRY NO. H11045

Data acquisition, processing, and analysis contributing to the accomplishment of this navigable area survey were conducted under my direct supervision with frequent personal checks of progress and adequacy. All data, field sheets, this Descriptive Report, and accompanying records were reviewed in their entirety and are approved.

This survey is adequate to supersede all prior surveys in common areas and is considered complete and adequate for nautical charting.

Respectfully Submitted:



Wesley G. Kitt
Senior Survey Technician
NOAA Ship RUDE

Approved:



P. Tod Schattgen
Lieutenant Commander, NOAA
Commanding Officer
NOAA Ship RUDE

APPENDIX I

Copies of all Danger To Navigation Reports (1)

1. Submitted 01 August 2003

Subject:

DTON Found on Project B-340-RU

Date:

Fri, 01 Aug 2003 01:40:44 +0000

From:

wesley kitt <wesley.kitt@noaa.gov>

To:

_NOS OCS MCD Navigation Dangers <mcd.dton@noaa.gov>

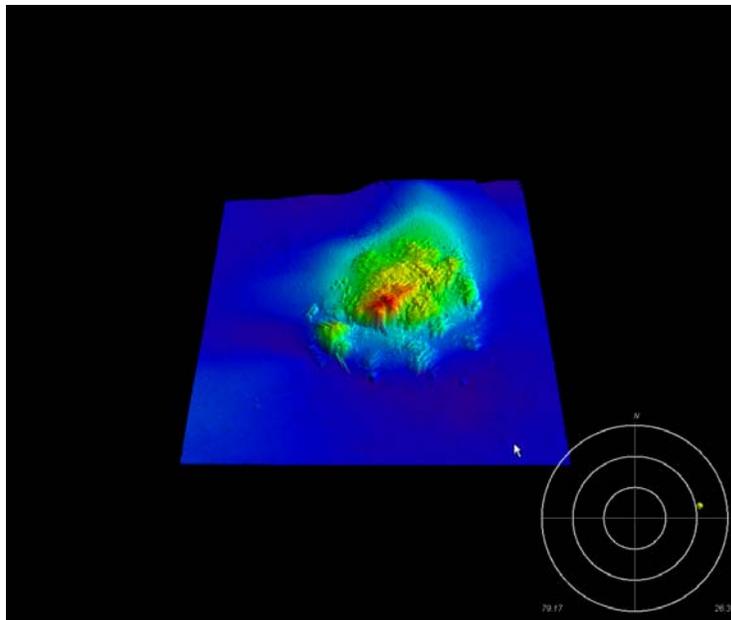
CC:

Emily B Christman <Emily.B.Christman@noaa.gov>, Andrew L Beaver
<Andrew.L.Beaver@noaa.gov>,

Tod Schattgen <Tod.Schattgen@noaa.gov>, Charles Yoos <Charles.Yoos@noaa.gov>

The attached file and image describes a rock outcropping, uncharted, found by NOAA Ship Rude while running mainscheme side scan sonar, 100-m range scale, on sheet H11045, Long Island Sound on July 29, 2003 (DN 210). Surrounding depths were in the 50-55 foot range. The contact was immediately developed using Multibeam and a least depth was found to be 32 feet with preliminary tides applied.

If you have any questions or wish further information, please contact FOO.Rude@noaa.gov or call 757-615-6465



PRIORITY

1369

2003

DM

Subject: [Fwd: [Fwd: DTON Found on Project B-340-RU]]

Date: Fri, 01 Aug 2003 09:35:10 -0400

From: "Douglas Harpine" <Douglas.Harpine@noaa.gov>

To: "Melancon Diane" <diane.melancon@noaa.gov>

Subject: [Fwd: DTON Found on Project B-340-RU]

Date: Fri, 01 Aug 2003 07:43:45 -0400

From: "Lyn Preston" <Lyn.Preston@noaa.gov>

To: "douglas.harpine" <douglas.harpine@noaa.gov>

Please process ASAP.

----- Original Message -----

Subject: DTON Found on Project B-340-RU

Resent-From: mcd.dton@noaa.gov

Date: Fri, 01 Aug 2003 01:40:44 +0000

From: Wesley Kitt <wesley.kitt@noaa.gov>

To: _NOS OCS MCD Navigation Dangers <mcd.dton@noaa.gov>

CC: Emily B Christman <Emily.B.Christman@noaa.gov>, Andrew L Beaver <Andrew.L.Beaver@noaa.gov>, Tod Schattgen <Tod.Schattgen@noaa.gov>, Charles Yoos <Charles.Yoos@noaa.gov>

The attached file and image describes a rock outcropping, uncharted, found by NOAA Ship Rude while running mainscheme side scan sonar, 100-m range scale, on sheet H11045, Long Island Sound on July 29, 2003 (DN 210). Surrounding depths were in the 50-55 foot range. The contact was immediately developed using Multibeam and a least depth was found to be 32 feet with preliminary tides applied.

If you have any questions or wish further information, please contact FOO.Rude@noaa.gov or call 757-615-6465

 Rock_DTON_H11045.bmp	Name: Rock_D Type: Bitmap Encoding: base64 Download Status: Not dow
--	--

(C)(D)

REF: DD4348-49
H11045

PRODUCTS

CP2

12369 2187

12364 2199

12363 2214

US5CNi2m

12300 NC

<XML ID="FSFeatures">
<HSTPVersion>2.600000</HSTPVersion><Event

r>dfs</user><

Douglas Harpine < Douglas.Harpine@noaa.gov > Senior Cartographer NOAA/NOS Marine Chart Division/Nautical Data Branch

1369

8/1/03 10:11 AM
AUG 01 2003

Uncharted Rock - Hazard

Registry Number:

State:

Locality:

Sub-locality:

Project Number:

Survey Date: 07/29/2003

Rock outcrop found with least depth (preliminary tides) of 32 feet, surrounded by depths of 52 feet.

Charts Affected

Number	Version	Date	Scale
12369	25th Ed.	06/01/02	1:20000
12364	33rd Ed.	02/16/02	1:40000
12363	39th Ed.	07/15/00	1:80000
12300	42nd Ed.	02/17/01	1:400000
13006	30th Ed.	07/01/02	1:675000
5161	12th Ed.	02/15/92	1:1058400
13003	46th Ed.	01/01/03	1:1200000

Features

Feature Type	Survey Depth [m]	Survey Latitude	Survey Longitude	AWOIS Item
Sounding	9.93	41.10623031° N	73.23421678° W	---

1.1 Profile/Beam - 1680/69 from h11045 / ru00_mb / 2003-210 / 257_1407

DANGER TO NAVIGATION

Survey Summary

Survey Position: 41.10623031° N, 73.23421678° W
Least Depth: 9.93
Timestamp: 2003-210.14:10:16.074 (07/29/2003)
Survey Line: h11045 / ru00_mb / 2003-210 / 257_1407
Profile/Beam: 1680/69

Charts Affected: 12369_1 , 12364_8 , 12363_1 , 12300_1 , 13006_1 , 5161_1 , 13003_1

Remarks:

Rock Outcrop developed with multibeam, preliminary tides applied, least depth of 32 feet surrounded by 52-foot depth.

Feature Correlation

Line	Feature	Range	Azimuth	Status
h:/h11045/ru00_mb/2003-210/257_1407	1680/69	0.00	000.0	Primary
h:/h11045/ru00_sss/2003-170/157_1628	0001	8.89	163.5	Secondary
h:/h11045/ru00_sss/2003-170/158_1610	0002	21.55	242.2	Secondary

Hydrographer Recommendations

Chart as 32 Rk



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE
Silver Spring, Maryland 20910

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: March 31, 2004^{PL}

HYDROGRAPHIC BRANCH: Atlantic
HYDROGRAPHIC PROJECT: OPR-B340-RU-2003
HYDROGRAPHIC SHEET: H11045

LOCALITY: Long Island Sound, NY & CT
TIME PERIOD: July 31-September 11, 2003

TIDE STATION USED: 846-7150 Bridgeport, CT
Lat. 41° 10.4'N Lon. 73° 10.9'W
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 2.129 meters

REMARKS: RECOMMENDED ZONING

Use zone(s) identified as: LIS15, LIS15A, LIS18, LIS20, and LIS32

Refer to attachments for zoning information.

Note 1: Provided time series data are tabulated in metric units (meters), relative to MLLW and on Greenwich Mean Time on the new 1983-2001 National Tidal Datum Epoch (NTDE).

Thomas V. Mero 4/5/04

CHIEF, REQUIREMENTS AND DEVELOPMENT DIVISION



Printed on Recycled Paper



**ATLANTIC HYDROGRAPHIC BRANCH
EVALUATION REPORT FOR H11045 (2003)**

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.

B. AUTOMATED DATA ACQUISITION AND PROCESSING

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

MapInfo, version 6.5
MicroStation J, version 7.1
IRAS B, version 07.1
CARIS HIPS/SIPS Ver 5.3.3.5
PYDRO, version 3.7.1

The smooth sheet was plotted using a Hewlett Packard Design Jet 2500CP plotter.

B.2 QUALITY CONTROL

Junctions

H11044 (2001) to the east

A standard junction was effected between H11044 (2001) and the present survey. Junction comparison indicates 1-2 ft. agreement within the common junction area except where the sand waves have migrated. There are no junctional surveys to the north, south or west.

D. RESULTS AND RECOMMENDATIONS

CHART COMPARISONS

12363 (39th Edition, Jul 15/00)
12364 (34th Edition, Mar /03)
Corrected through NM Mar 8/03
Corrected through LNM Feb 18/03
12369 (25th Edition, Jun /02)
Corrected through NM May 25/02
Corrected through LNM May 14/02
12370 (18th Edition, Aug /02)
Corrected through NM Aug 3/02
Corrected through LNM Jul 16/02

The charted hydrography originates with prior surveys and requires no further consideration. The hydrographer makes adequate chart comparisons in Section D of the Descriptive Report.

D.2.1 AWOIS Items

1. Automated Wreck and Information System (AWOIS) Item 7700, a charted dangerous sunken Wreck, is located in Latitude 41 01'37.32"N, Longitude 73 10'17.56"W according to the Digital Report. The wreck is charted on chart 12363 in Latitude 41 01'22.66"N, Longitude 73 10'09.53. The wreck is considered disproved by the present survey and it is recommended to be deleted from chart 12363. *This item was verified by the the present survey. Refer to section D.2.1 on page 11 and section D.2.3 on page 88. [JCM, 12/23/04]*

2. AWOIS Item 11847, a dangerous 20 Rock, is considered disproved by this survey and it is recommended to be deleted from all charts.

3. AWOIS Item 11850, a charted dangerous 25 Rock, in Latitude 41 07'25.85"N, Longitude 73 12'54.51, was not addressed by the hydrographer. The item was verified during office processing. It is recommended the dangerous 25 Rock be retained as charted.

4. AWOIS Item 6883, a charted dangerous sunken Wreck in Latitude 41 07'57.01"N, Longitude 73°07'26.74"W, has been disproved by survey H11044(2001). A charting recommendation for this item can be found in the Descriptive Report for H11044 (2001).

5. AWOIS Items 6884 is a charted notation Rep 1968 in the vicinity of Latitude 41 07'52.35"N, Longitude 73°07'29.39"W, corresponds to a reported 11 ft. shoal sounding. The area has been developed by survey H11044(2001). A charting recommendation for this item can be found in the Descriptive Report for H11044 (2001).

D.2.2 Charted and Uncharted Items

1. The charted dangerous Wreck PA, in Latitude 41 08'20.19"N, Longitude 73°08'38.51"W, was neither investigated nor discussed by the hydrographer. It is recommended that the dangerous Wreck PA be retained as charted.

2. The two charted notations, Oyster stakes, in the vicinity of Latitude 41 08'52.86"N, Longitude 73°10'30.06"W and in the vicinity of Latitude 41 08'50.52"N, Longitude 73°16'24.26"W, were neither verified nor disproved by the present survey. There is not enough information from the present survey to warrant their removal from the chart as notations showing the locations of oyster beds. It is recommended that the two charted notations, Oyster stakes, be retained unless other information indicates otherwise.

3. Oyster stakes were located by the hydrographer in the vicinity of Latitude 41 06'26.35"N, Longitude 73°15'36.18"W (see Aids to Navigation in the Digital Report). It is recommended the notation Oyster stakes be charted as shown on the present survey.

4. The following features were found during office processing. It is recommended they be charted:

<u>Feature</u>	<u>Latitude</u>	<u>Longitude</u>
19 Rk	41°06'36.33"N	73°15'33.10"W
20 Rk	41°06'36.90"N	73°15'27.59"W
27 Rk	41°06'30.15"N	73°15'13.74"W
63 Wk	41°04'33.52"N	73°13'25.61"W
84 Wk	41°05'13.31"N	73°06'29.86"W

5. The following areas have been considered rocky during office processing. It is recommended these areas be charted rocky as shown on the present survey:

<u>Feature</u>	<u>Latitude</u>	<u>Longitude</u>
rky	41°06'30.73"N	73°15'51.75"W
rky	41°06'47.42"N	73°13'30.28"W
rky	41°06'37.82"N	73°15'58.16"W
rky	41°06'39.05"N	73°15'39.61"W

DANGER TO NAVIGATION REPORT

One Danger to Navigation (DTON) Report was submitted by the hydrographer to the Marine Chart Division, N/CS3x1, Silver Spring, Maryland. A copy of this report is appended to the Descriptive Report.

The submitted DTON, a 32 Rock in Latitude 41 06'22.34"N, Longitude 73°14'03.00"W, was not discussed by the hydrographer in the Descriptive Report. It is recommended that a dangerous 32 Rock be charted as shown on the present survey.

AIDS TO NAVIGATION

The Little Cows Lighted Bell Buoy LC near Penfield Reef, in the vicinity of Latitude 41 07'19.96"N, Longitude 73°12'52.20"W, was listed by the hydrographer as not charted. It is not shown on the latest edition of the nautical charts.

The hydrographer stated the Dayboard Bn W to the west of Black Rock and Penfield Reef was not seen though it is listed in the Light List. In its place, the hydrographer noted a white buoy with an orange stripe on top and bottom and two orange diamonds in the middle in Latitude 41 07'13.32"N, Longitude 73°12'59.91"W. Defer to Marine Chart Division Update Services Branch for charting recommendations for Aids to Navigation.

CONTROLLING DEPTHS

There are conflicts between the tabulation shown on chart 12369 and the present survey depths. These conflicts were not addressed by the hydrographer. Attention is directed to the following:

The charted controlling depth in the right outside quarter of Cedar Creek Channel of Black Rock Harbor is 15 ft. There is a 14 ft. depth in the vicinity of Latitude 41 09'40.02"N, Longitude 73°12'26.60"W.

The charted controlling depth in the right outside quarter of the Bridgeport Entrance Channel is 29.3 ft. There is a 27 ft. depth in the vicinity of Latitude 41 09'28.74"N, Longitude 73°10'38.78"W.

ADEQUACY OF SURVEY

This is an adequate hydrographic/side scan sonar survey. No additional field work is recommended.

MISCELLANEOUS

Chart compilation was done by Atlantic Hydrographic Branch personnel in Norfolk, Virginia. Compilation data will be forwarded to Marine Chart Division, Silver Spring, Maryland. The following NOS charts were used for compilation of the present survey:

12363 (39th Edition, Jul 15/00)
12364 (34th Edition, Mar /03)
 Corrected through NM Mar 8/03
 Corrected through LNM Feb 18/03
12369 (25th Edition, Jun /02)
 Corrected through NM May 25/02
 Corrected through LNM May 14/02
12370 (18th Edition, Aug /02)
 Corrected through NM Aug 3/02
 Corrected through LNM Jul 16/02

Bryan Chauveau

Bryan Chauveau
Contract Hydrographer
Verification of Data
Evaluation and Analysis

APPROVAL SHEET
H11045 (2003)

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. 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.



Richard H. Whitfield
Cartographer,
Atlantic Hydrographic Branch

Date: 8/12/04

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.

Approved: 

P. Tod Schattgen
Lieutenant Commander, NOAA
Chief, Atlantic Hydrographic Branch

Date: 11/17/04

