

H12431

NOAA Form 76-35A

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Ocean Survey

DESCRIPTIVE REPORT

Type of Survey: Navigable Area

Registry Number: H12431

LOCALITY

State: New York and Rhode Island

General Locality: Block Island Sound

Sub-locality: 10 NM South of Block Island

2012

CHIEF OF PARTY
CDR Lawrence T. Krepp

LIBRARY & ARCHIVES

Date:

HYDROGRAPHIC TITLE SHEET

H12431

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

State: **New York and Rhode Island**

General Locality: **Block Island Sound**

Sub-Locality: **10 NM South of Block Island**

Scale: **20000**

Dates of Survey: **08/25/2012 to 08/29/2012**

Instructions Dated: **04/12/2012**

Project Number: **OPR-B363-TJ-12**

Field Unit: **NOAA Ship *Thomas Jefferson***

Chief of Party: **CDR Lawrence T. Krepp**

Soundings by: **Multibeam Echo Sounder**

Imagery by: **Multibeam Echo Sounder Backscatter**

Verification by: **Atlantic Hydrographic Branch**

Soundings Acquired in: **meters at Mean Lower Low Water**

Remarks:

The purpose of this survey is to provide contemporary surveys to update National Ocean Service (NOS) nautical charts. All separates are filed with the hydrographic data. Any revisions to the Descriptive Report (DR) generated during office processing are shown in bold red italic text. The processing branch maintains the DR as a field unit product, therefore, all information and recommendations within the body of the DR are considered preliminary unless otherwise noted. The final disposition of surveyed features is represented in the OCS nautical chart update products. All pertinent records for this survey, including the DR, are archived at the National Geophysical Data Center (NGDC) and can be retrieved via <http://www.ngdc.noaa.gov/>.

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Descriptive Report to Accompany Survey H12431

Project: OPR-B363-TJ-12

Locality: Block Island Sound

Sublocality: 10 NM South of Block Island

Scale: 1:20000

August 2012 - August 2012

NOAA Ship *Thomas Jefferson*

Chief of Party: CDR Lawrence T. Krepp

A. Area Surveyed

Survey is 3 nautical miles south of Block Island, R.I.

A.1 Survey Limits

Data was acquired within the following survey limits:

Northeast Limit	Southwest Limit
41.107 N	41.038 N
71.515 W	71.667 W

Table 1: Survey Limits

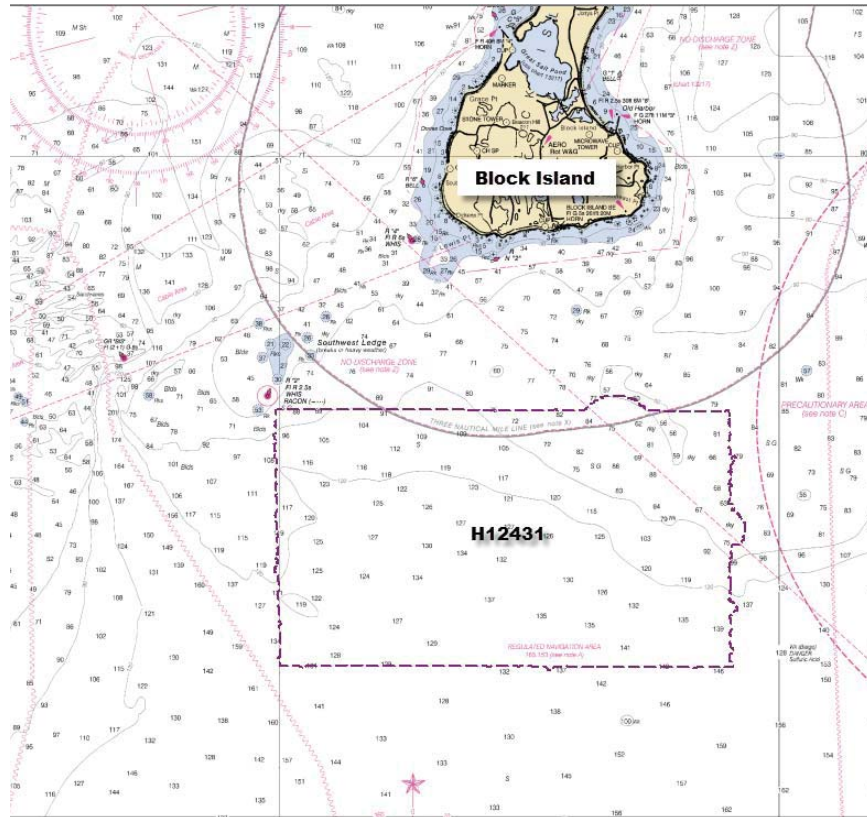


Figure 1: Extents of survey overview for H12431

MBES data was acquired outside of the survey limits where AWOIS search radii exist.

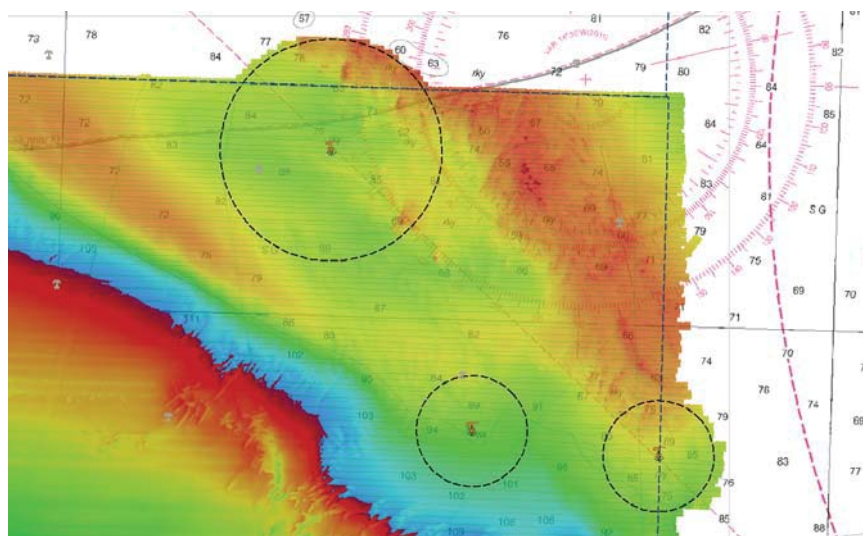


Figure 2: Area of MBES coverage beyond survey limits due to AWOIS search.

A.2 Survey Purpose

The purpose of this survey is to support safe navigation by updating nautical charting products with contemporary hydrographic data.

A.3 Survey Quality

The entire survey is adequate to supersede previous data.

This hydrographic survey was completed as specified by Hydrographic Survey Letter Instructions OPR-B363-TJ-12, dated 12th April, 2012. No additional work is needed to complete this survey. No changes significant to navigation have been noted and it is recommended that this survey receive normal processing priority.

A.4 Survey Coverage

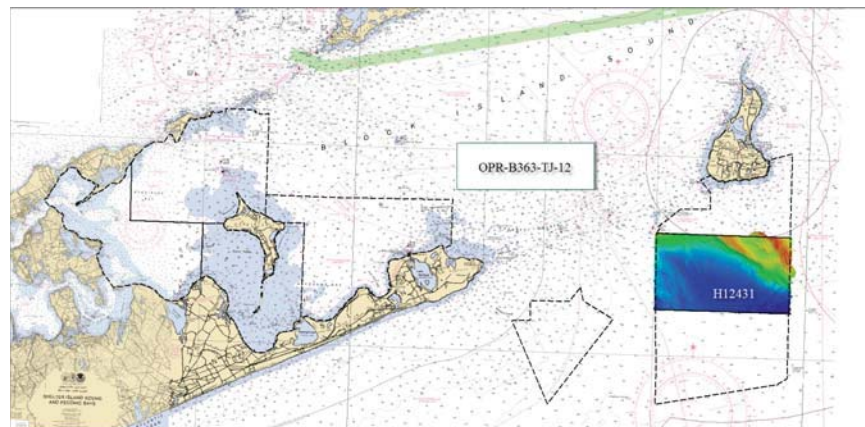


Figure 3: Coverage graphic of H12431, 4m BASE Surface.

Survey Coverage was in accordance with the requirements in the Project Instructions and the HSSD.

A.5 Survey Statistics

The following table lists the mainscheme and crossline acquisition mileage for this survey:

	HULL ID	S222	Total
LNM	SBES Mainscheme	0	0
	MBES Mainscheme	567.86	567.86
	Lidar Mainscheme	0	0
	SSS Mainscheme	0	0
	SBES/MBES Combo Mainscheme	0	0
	SBES/SSS Combo Mainscheme	0	0
	MBES/SSS Combo Mainscheme	0	0
	SBES/MBES Combo Crosslines	24.67	24.67
	Lidar Crosslines	0	0
	Number of Bottom Samples		
Number of DPs			0
Number of Items Items Investigated by Dive Ops			0
Total Number of SNM			26.9

Table 2: Hydrographic Survey Statistics

The following table lists the specific dates of data acquisition for this survey:

<i>Survey Dates</i>
08/25/2012
08/26/2012
08/27/2012
08/28/2012
08/29/2012

Table 3: Dates of Hydrography

A.6 Shoreline

Shoreline was investigated in accordance with the Project Instructions and the HSSD.

A.7 Bottom Samples

Bottom Samples were acquired in accordance with the Project Instructions or the HSSD.

B. Data Acquisition and Processing

B.1 Equipment and Vessels

Refer to the Data Acquisition and Processing Report (DAPR) for a complete description of data acquisition and processing systems, survey vessels, quality control procedures and data processing methods. Additional information to supplement sounding and survey data, and any deviations from the DAPR are discussed in the following sections.

B.1.1 Vessels

The following vessels were used for data acquisition during this survey:

Hull ID	<i>S222</i>
LOA	208 feet
Draft	14 meters

Table 4: Vessels Used

B.1.2 Equipment

The following major systems were used for data acquisition during this survey:

Manufacturer	Model	Type
Reson	7125 ROV	MBES
Applanix	POSMV	Vessel Attitude System
Brooke Ocean	MVP 100	Sound Speed System

Table 5: Major Systems Used

NOAA Ship Thomas Jefferson (S222) used the Reson 7125 multibeam echo sounder (MBES) and Brooke Ocean MVP 100 to acquire soundings and sound velocity profiles, respectively. Vessel configuration, equipment operation and data acquisition and processing were consistent with specifications described in the DAPR.

B.2 Quality Control

B.2.1 Crosslines

Crossline comparison was conducted using the difference surface method in CARIS BathyDataBase. Crosslines agreed very well with main scheme bathymetry, in most cases less than 10cm of difference was noticed. Computed statistics from the difference surface: mean: 0.032m, stdev: 0.045m.

B.2.2 Uncertainty

The following survey specific parameters were used for this survey:

Measured	Zoning
0meters	0.2meters

Table 6: Survey Specific Tide TPU Values

Hull ID	Measured - CTD	Measured - MVP	Surface
S-222	N/A meters/second	1 meters/second	.2 meters/second

Table 7: Survey Specific Sound Speed TPU Values

Total Propagated Uncertainty values for survey H12431 were derived from a combination of fixed values for equipment and vessel characteristics, as well as field assigned values for water level and sound speed uncertainties. Uncertainty stemming from survey equipment and vessel configuration were set by the field unit in accordance with the NOAA Field Procedure Manual (ed 2011), Appendix 4, table 4.9. Sound speed uncertainty was based on the frequency and location of MVP casts, in accordance with the guidance set by Appendix 4 of the FPM. Tidal uncertainties were not provided by NOAA's Center for Operational Oceanographic Products and Services (CO-OPS), and were derived by the field based on historical trends. The uncertainty values were applied to the depth soundings via the Tide Value section of the CARIS Compute TPU function.

B.2.3 Junctions

There was one contemporary survey that junctions with survey H12431.

The following junctions were made with this survey:

Registry Number	Scale	Year	Field Unit	Relative Location
H12386	1:20000	2011	NOAA Ship THOMAS JEFFERSON	W

Table 8: Junctioning Surveys

H12386

H12386 agreed well with H12431 with an average difference of 0.3 meters, standard deviation of 0.1 meters and a maximum difference of 0.8 meters.

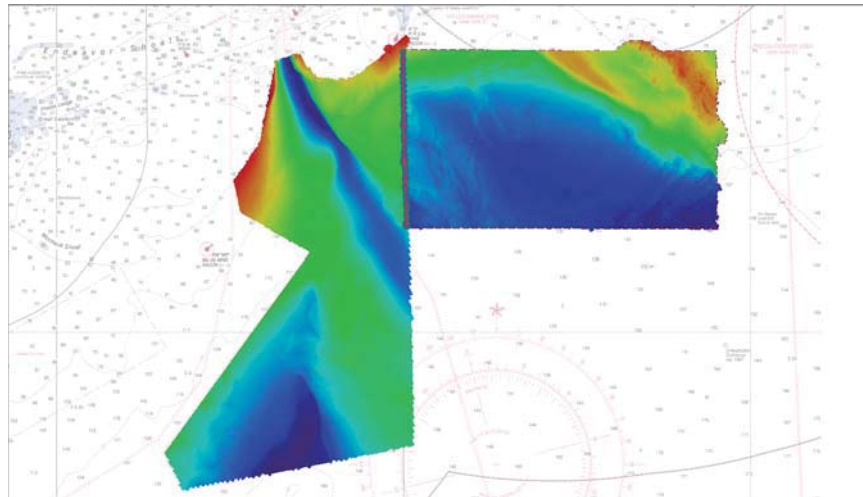


Figure 4: H12431 and junction with H12386 to the West.

B.2.4 Sonar QC Checks

Sonar system quality control checks were conducted as detailed in the quality control section of the DAPR.

B.2.5 Equipment Effectiveness

B.2.5.1 None Exist

There were no conditions or deficiencies that affected equipment operational effectiveness.

B.2.6 Factors Affecting Soundings

B.2.6.1 None Exist

There were no other factors that affected corrections to soundings.

B.2.7 Sound Speed Methods

Sound Speed Cast Frequency: For H12431, operations were conducted 24 hours per day. During night operations the MVP towfish was removed from the water to avoid fouling with fishing gear. This led to a cast frequency of approximately 90 minutes during night operations. During the daylight, S-222 conducts Moving Vessel Profiler casts approximately every 20 minutes. All sound velocity correctors were applied to the data using the "nearest in time" option in CARIS HIPS/SIPS.

Data was processed often during acquisition and special attention was given to sound velocity issues. No significant sound velocity issues existed in H12431.

B.2.8 Coverage Equipment and Methods

99.80% of nodes in H12431 contained 5 or more soundings.

B.3 Echo Sounding Corrections

B.3.1 Corrections to Echo Soundings

Lines for H12431 use verified tides from COOPS instead of TCARI or ERS / Vdatum.

B.3.2 Calibrations

All sounding systems were calibrated as detailed in the DAPR.

B.4 Backscatter

Backscatter was logged as an 7k file and submitted directly to the Hydrographic Processing Branch. It is not included with the data submitted to the Branch.

B.5 Data Processing

B.5.1 Software Updates

The following software updates occurred after the submission of the DAPR:

Manufacturer	Name	Version	Service Pack	Hotfix	Installation Date	Use
Caris	HIPS/SIPS	7.1	2	6	02/07/2013	Processing

Table 9: Software Updates

The following Feature Object Catalog was used: NOAA Profile Field V5.2

B.5.2 Surfaces

The following CARIS surfaces were submitted to the Processing Branch:

Surface Name	Surface Type	Resolution	Depth Range	Surface Parameter	Purpose
H12431_50cm_MLLW_CUBE_Final	CUBE	50 centimeters	0 meters - 20 meters	NOAA_0.5m	Object Detection
H12431_2m_MLLW_CUBE_Final	CUBE	2 meters	18 meters - 40 meters	NOAA_2m	Complete MBES
H12431_4m_MLLW_CUBE_Final	CUBE	4 meters	35 meters - 80 meters	NOAA_4m	Complete MBES
H12431_4m_MLLW_CUBE_ Final_Combined	CUBE	4 meters	0 meters - 80 meters	N/A	Complete MBES

Table 10: CARIS Surfaces

Per section 5.2.2.1 of the NOAA HSSD Manual (2012 ed), all MBES data was gridded according to depth: 0.5m resolution for depths ranging from 0-20m, 2m resolution for depths ranging 18-40m, and 4m resolution for depths ranging 35-80m.

C. Vertical and Horizontal Control

Additional information discussing the vertical or horizontal control for this survey can be found in the accompanying HVCR.

C.1 Vertical Control

The vertical datum for this project is Mean Lower Low Water.

Standard Vertical Control Methods Used:

Discrete Zoning

The following National Water Level Observation Network (NWLON) stations served as datum control for this survey:

Station Name	Station ID
Newport, RI	8452660

Table 11: NWLON Tide Stations

File Name	Status
8452660.tid	Final Approved

Table 12: Water Level Files (.tid)

File Name	Status
B363TJ2012CORP.zdf	Final

Table 13: Tide Correctors (.zdf or .tc)

A request for final approved tides was sent to N/OPS1 on 09/19/2012. The final tide note was received on 10/05/2012.

C.2 Horizontal Control

The horizontal datum for this project is North American Datum of 1983 (NAD83).

The following DGPS Stations were used for horizontal control:

DGPS Stations
Moriches, NY (293kHz)

Table 14: USCG DGPS Stations

D. Results and Recommendations

D.1 Chart Comparison

D.1.1 Raster Charts

The following are the largest scale raster charts, which cover the survey area:

Chart	Scale	Edition	Edition Date	LNМ Date	NM Date
13215	1:40000	20	02/2011	02/08/2011	02/19/0011
13205	1:80000	39	12/2010	12/18/2010	12/14/2010

Table 15: Largest Scale Raster Charts

13215

Generally, surveyed soundings agreed within 2 feet of charted soundings. In one area, in the northeastern portion of the sheet, differences of up to 8 feet between surveyed and charted soundings were discovered. The surveyed soundings in this area were shoaler than the charted soundings, but deemed insignificant to navigation.

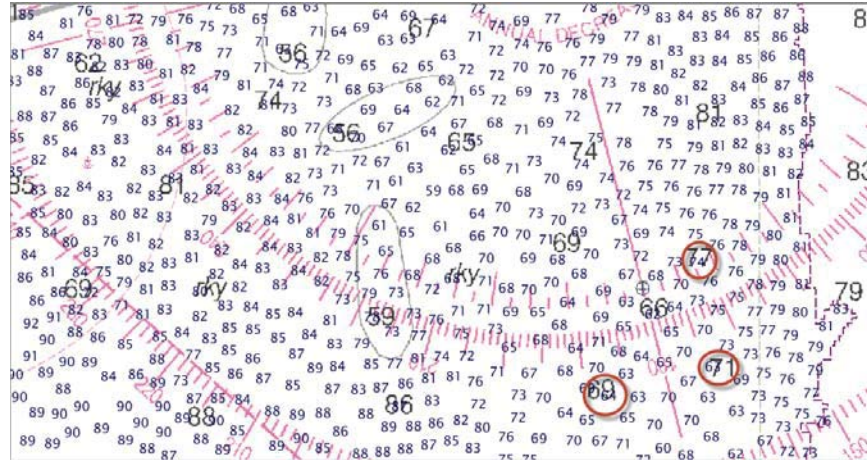


Figure 5: Areas of disagreement between H12431 and raster chart 13215.

13205

Generally, surveyed soundings agreed within 2-3 feet of charted soundings. Disagreement by up to 12 feet occurred in isolated instances, but in all cases of discrepancy, charted depths were shallower than surveyed depths.

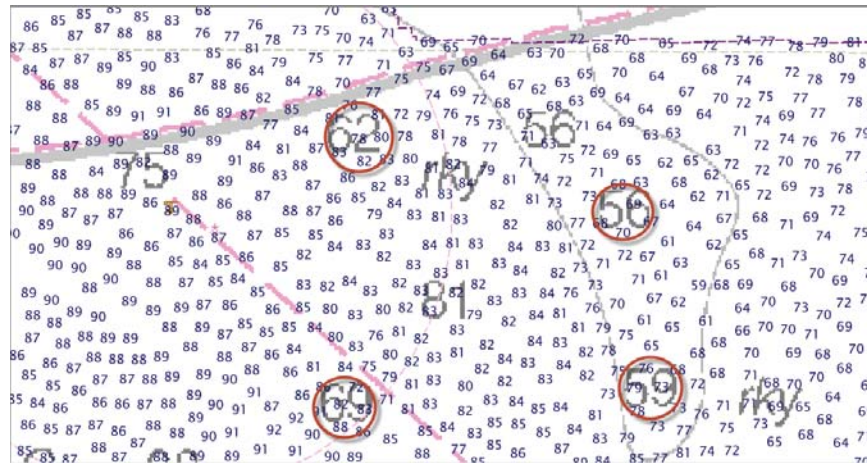


Figure 6: Areas of disagreement between H12431 and raster chart 13205.

D.1.2 Electronic Navigational Charts

The following are the largest scale ENC's, which cover the survey area:

ENC	Scale	Edition	Update Application Date	Issue Date	Preliminary?
US5RI10M	1:40000	7	01/16/2013	01/16/2013	NO

Table 16: Largest Scale ENC's

US5RI10M

Generally, surveyed soundings agreed within 3 feet of charted soundings. Maximum disagreement of 21 feet occurred in the northeast corner of the sheet, with the charted sounding being shoaler than soundings from H12431.

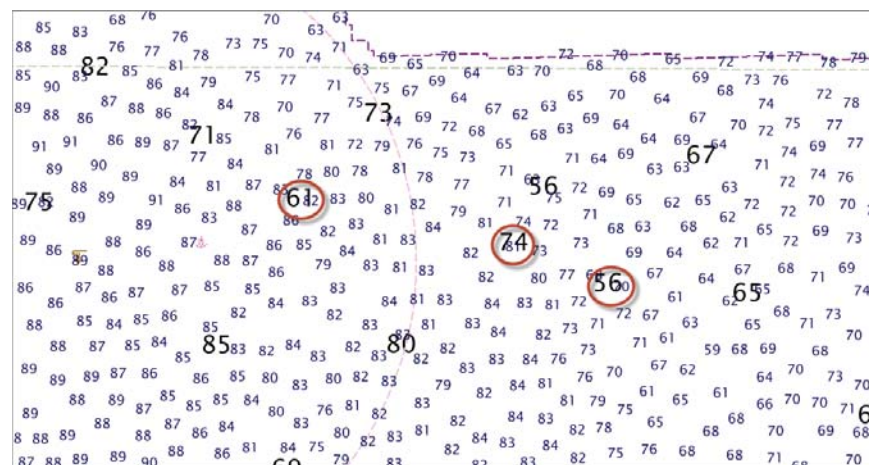


Figure 7: Areas of disagreement between H12431 and US5RI10M ENC.

D.1.3 AWOIS Items

Number of AWOIS Items Addressed: 3

Number of AWOIS Items Not Addressed: 0

Two assigned AWOIS items were disproved by H12431 and one was found. Neither of the disproved AWOIS items were charted on raster chart 13205, 13215 or ENC US5RI10M. AWOIS item #7207, the 1932 wreck of the steam ship Grecian, was found by H12431 and the hydrographer recommends retaining the feature's position and updating the charted depth to 81ft.

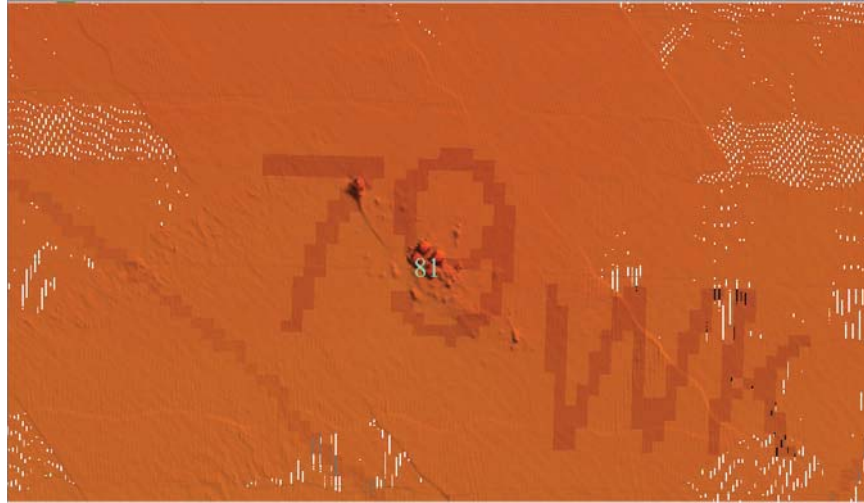


Figure 8: Bow and stacks of wrecks visible in 50cm BASE surface; assigned AWOIS wreck verified by H12431.

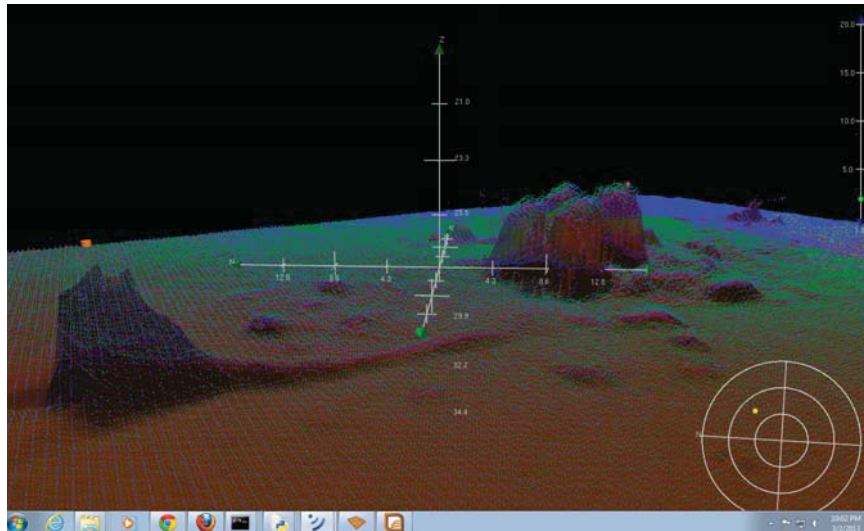


Figure 9: Subset view of AWOIS wreck verified by H12431.

D.1.4 Charted Features

Other than the aforementioned AWOIS items, no charted features exist for this survey.

D.1.5 Uncharted Features

No uncharted features exist for this survey.

D.1.6 Dangers to Navigation

No Danger to Navigation Reports were submitted for this survey.

D.1.7 Shoal and Hazardous Features

No shoals or potentially hazardous features exist for this survey.

D.1.8 Channels

No channels exist for this survey. There are no designated anchorages, precautionary areas, safety fairways, traffic separation schemes, pilot boarding areas, or channel and range lines within the survey limits.

D.2 Additional Results**D.2.1 Shoreline**

Shoreline was not assigned in the Hydrographic Survey Project Instructions or Statement of Work.

D.2.2 Prior Surveys

No prior survey comparisons exist for this survey.

D.2.3 Aids to Navigation

Aids to navigation (ATONs) do not exist for this survey.

D.2.4 Overhead Features

Overhead features do not exist for this survey.

D.2.5 Submarine Features

Submarine features do not exist for this survey.

D.2.6 Ferry Routes and Terminals

No ferry routes or terminals exist for this survey.

D.2.7 Platforms

No platforms exist for this survey.

D.2.8 Significant Features

No significant features exist for this survey.

D.2 Construction and Dredging


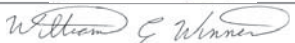

There is no present or planned construction or dredging within the survey limits.

E. Approval Sheet

As Chief of Party, Field operations for this hydrographic survey were conducted under my direct supervision, with frequent personal checks of progress and adequacy. I have reviewed the attached survey data and reports.

All field sheets, this Descriptive Report, and all accompanying records and data are approved. All records are forwarded for final review and processing to the Processing Branch.

The survey data meets or exceeds requirements as set forth in the NOS Hydrographic Surveys and Specifications Deliverables Manual, Field Procedures Manual, Standing and Letter Instructions, and all HSD Technical Directives. These data are adequate to supersede charted data in their common areas. This survey is complete and no additional work is required with the exception of deficiencies noted in the Descriptive Report.

Approver Name	Approver Title	Approval Date	Signature
ENS Andrew Clos	Sheet Manager	03/25/2013	
LT William Winner	Field Operations Officer	03/25/2013	
CDR Lawrence Krepp	Commanding Officer	03/25/2013	

APPENDIX I
TIDE NOTE AND GRAPHICS



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Ocean Service
Silver Spring, Maryland 20910

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE : October 4, 2012

HYDROGRAPHIC BRANCH: Atlantic
HYDROGRAPHIC PROJECT: OPR-B363-TJ-2012
HYDROGRAPHIC SHEET: H12431

LOCALITY: 10 NM South of Block Island, Block Island Sound, NY
TIME PERIOD: August 25 - 29, 2012

TIDE STATION USED: 8452660 Newport, RI
Lat. 41° 30.3'N Long. 71° 19.6' W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.099 meters

REMARKS: RECOMMENDED ZONING

Preliminary zoning is accepted as the final zoning for project OPR-B363-TJ-2012, H12431, during the time period between August 25 and August 29, 2012.

Please use the zoning file B363TH2012CORP submitted with the project instructions for OPR-B363-TJ-2012. Zones BIS1A, NA629, NA630, NA640, NA642, and NA643 are the applicable zones for H12431.

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 1983-2001 National Tidal Datum Epoch (NTDE).

**HOVIS.GERALD.T
HOMAS.1365860
250**

Digitally signed by
HOVIS.GERALD.THOMAS.1365860250
DN: c=US, o=U.S. Government, ou=DoD,
ou=PKI, ou=OTHER,
cn=HOVIS.GERALD.THOMAS.1365860250
Date: 2012.10.05 14:33:36 -04'00'

CHIEF, PRODUCTS AND SERVICES BRANCH



8452660 NEWPORT, NARRAGANSETT BAY



**Preliminary as Final Tidal Zoning for
OPR-B363-TJ-2012, H12431
10 NM South of Block Island,**

Approaches to Block Island Sound, RI and CT

BIS1A

**Time Corrector -6 mins
Range Corrector x 0.77
Reference 8452660**

NA642

**Time Corrector -6 mins
Range Corrector x 0.78
Reference 8452660**

NA643

**Time Corrector -12 mins
Range Corrector x 0.84
Reference 8452660**

NA640

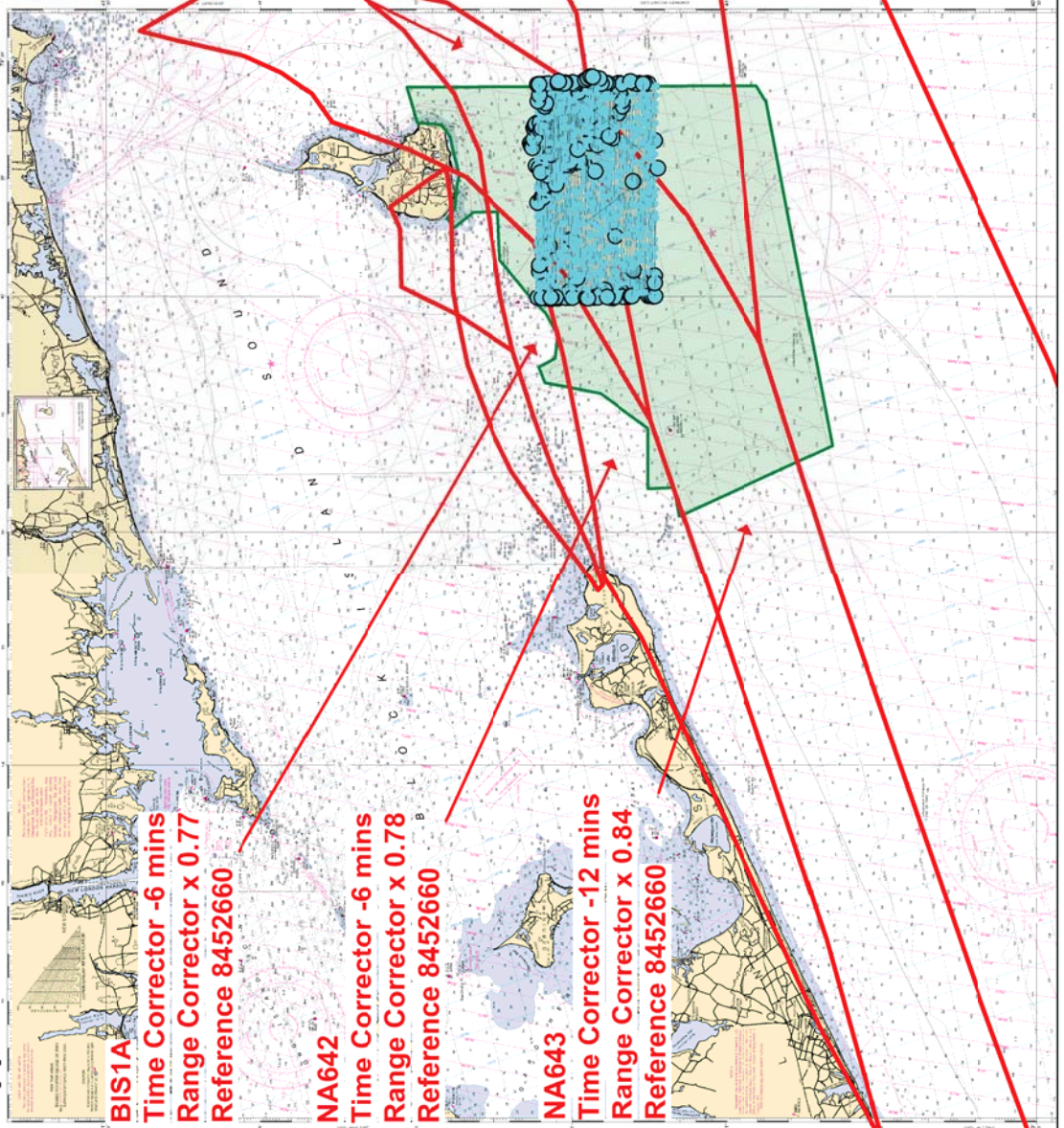
**Time Corrector -6 mins
Range Corrector x 0.84
Reference 8452660**

NA629

**Time Corrector -6 mins
Range Corrector x 0.87
Reference 8452660**

NA630

**Time Corrector -12 mins
Range Corrector x 0.87
Reference 8452660**



APPENDIX II

SUPPLEMENTAL SURVEY RECORDS
AND CORRESPONDENCE



Marilyn Schluter - NOAA Federal <marilyn.l.schluter@noaa.gov>

NOAA Hydrographic Surveys H12414, H12417, H12431

2 messages

Marilyn Schluter - NOAA Federal <marilyn.l.schluter@noaa.gov>

Mon, May 20, 2013 at 2:39 PM

To: Christina Rieth <crieth@mail.nysed.gov>, ruth.pierpont@oprhp.state.ny.us

Cc: Bruce Terrell - NOAA Federal <bruce.terrell@noaa.gov>, Marc Moser - NOAA Federal <Marc.S.Moser@noaa.gov>, Michael Davidson - NOAA Federal <Michael.Davidson@noaa.gov>, Frank Cantelas - NOAA Federal <frank.cantelas@noaa.gov>, Abigail Higgins - NOAA Federal <Abigail.Higgins@noaa.gov>, Castle Parker - NOAA Federal <Castle.E.Parker@noaa.gov>, Marilyn Schluter - NOAA Federal <marilyn.l.schluter@noaa.gov>, Brian Jordan@boemre.gov, Lawrence Krepp - NOAA Federal <Lawrence.T.Krepp@noaa.gov>

Dear Madam,

The National Oceanic and Atmospheric Administration's Office of Coast Survey (OCS) may have previously contacted you regarding hydrographic surveys in **Long Island Sound and Block Island Sound, NY**. These surveys have been completed. The complete Descriptive Reports for these surveys are available for your review on NOAA's public ftp web site. Please provide any comments regarding these surveys (please reference the survey numbers **H12414, H12417, H12431**) within 30 days to:

LT Abigail Higgins

Chief, Atlantic Hydrographic Branch

Work: 757-441-6746 Ext.200

Fax: 757-441-6601

E-Mail: Abigail.Higgins@noaa.gov

439 W. York St.

Norfolk, VA 23510

If we have not received a response in 30 days, we will assume that these surveys do not include any data of sufficient historical significance (for instance, an historic shipwreck whose location should not be made public knowledge) to warrant special data handling, and will forward this data for our standard nautical charting process.

You will need to have Winzip compression utility installed on your computer to access these files. The following link

<http://www.winzip.com/downwz.htm> will take you to the Winzip free evaluation site where you can register for Winzip and access the files.

To access this information follow this link <ftp://205.156.4.84/4SHPO> to NOAA's public ftp web site and select the aforementioned surveys (**H12414, H12417, H12431**).

The "Key" for these surveys (i.e. to remove the encryption from the .zip files) is: **B340_NY_4617**

Regards,

Marilyn Schlüter, Data Manager

NOAA/Atlantic Hydrographic Branch

757-441-6746 Ext.113

439 W. York St.

Norfolk, VA 23510

Christina Rieth <CRIETH@mail.nysed.gov>

Sun, May 26, 2013 at 11:49 AM

To: Marilyn Schluter - NOAA Federal <marilyn.l.schluter@noaa.gov>

Thank you for requesting the comments of New York State Archaeologist's Office. We have no recorded historic resources in this area and have no concerns regarding the current work.

Sincerely,

Christina Rieth
New York State Museum

Christina B. Rieth, Ph.D.
State Archaeologist and Director,

Cultural Resource Survey Program
New York State Museum
Cultural Education Center 3122
Albany, New York 12230
Phone: (518)402-5975, Fax: (518)486-2149
Email: crieth@mail.nysed.gov
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>>> Marilyn Schluter - NOAA Federal <marilyn.l.schluter@noaa.gov> 5/20/2013 2:39 PM >>>
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APPENDIX III

SURVEY FEATURES REPORT

DToNs - none

AWOIS - three

Wrecks - none

Maritime Boundaries - none

H12431 AWOIS

Registry Number: H12431

State: New York and Rhode Island

Locality: Block Island Sound

Sub-locality: 10 NM South of Block Island

Project Number: OPR-B363-TJ-12

Survey Date: 08/25/12 - 08/29/12

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
13215	18th	08/01/2004	1:40,000 (13215_1)	[L]NTM: ?
13205	38th	02/01/2007	1:80,000 (13205_1)	[L]NTM: ?
13218	40th	02/01/2008	1:80,000 (13218_1)	[L]NTM: ?
12300	47th	05/01/2008	1:400,000 (12300_1)	[L]NTM: ?
13006	34th	05/01/2007	1:675,000 (13006_1)	[L]NTM: ?
5161	13th	10/01/2003	1:1,058,400 (5161_1)	[L]NTM: ?
13003	49th	04/01/2007	1:1,200,000 (13003_1)	[L]NTM: ?

* Correction(s) - source: last correction applied (last correction reviewed--"cleared date")

Features

No.	Name	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	AWOIS #7207 - 80 ft Wreck	AWOIS	24.44 m	41° 04' 27.5" N	071° 32' 18.5" W	7207
1.2	Uncharted AWOIS 7666 - APPLETREE	AWOIS	[no data]	[no data]	[no data]	7666
1.3	Uncharted AWOIS 1784	AWOIS	[no data]	[no data]	[no data]	1784

1.1) AWOIS #7207 - 80 ft Wreck - GRECIAN

No Primary Survey Feature for this AWOIS Item

Search Position: 41° 04' 27.5" N, 071° 32' 18.7" W
Historical Depth: 24.20 m
Search Radius: 500
Search Technique: SSS, MB
Technique Notes: [None]

History Notes:

SURVEY REQUIREMENT COMMENTS

SEARCH AROUND THE LORAN RATES LISTED BELOW UNDER 195 AND 206.

HISTORY

NM23/32-- USCG REPORTS THAT THE WRECK OF THE STEAMER GRECIAN WITH TWO MASTS SHOWING ABOUT 10 FT. ABOVE WATER LIES SUNK 5 MILES 183 DEGREES FROM BLOCK ISLAND SOUTHEAST LIGHT; PA LAT 41-04N, LONG 71-33W.

NM24/32--BUOY ESTABLISHED 250 FT. SOUTH BY WEST FROM WRECK OF GRECIAN WHICH LIES NORTHWEST AND SOUTHEAST AND HAS TWO MASTS SHOWING ABOUT 15 FT. ABOVE THE WATER; BUOY LOCATED IN PA LAT 41-04N, LONG 71-32W; WRECK IN PA LAT 41-04-02N, LONG 71-31-59W.

NM19/33--BUOY DISCONTINUED; WRECK WHICH SANK ABOUT 5 MILES, 173 DEGREES FROM BLOCK ISLAND SOUTHEAST LIGHT HAS BEEN REMOVED TO A CLEARED DEPTH OF 55 FT. MLW; PA LAT 41-04N, LONG 71-32W. (ENTERED MSM 4/89)

FE364SS/91--OPR-B660-RU; WRECK WAS LOCATED BY SIDE SCAN SONAR AND FOUND TO HAVE A LEAST DEPTH OF 24.2M (79.4FT) IN POS. LAT.41-04-27.52N, LONG.71-32-18.66W (NAD 83). (UPDATED 9/93 MCR)

DESCRIPTION

24 NO.301; 2827 NT; 41-06, 71-33; 1-3 MILE ACCURACY

27 NO.183; 2827 NT; SUNK BEFORE WW II; 41-06N, 71-33W; POSITION FROM OLD COAST GUARD RECORDS; A REFERENCE WRECK CHART WAS COMPILED ON CHART 12300 IN THE 1940'S SHOWING ALL WRECKS IN THIS AREA FROM THE 1945 WRECK LIST; THIS WRECK CHART ALSO IDENTIFIED WRECKS BY NAME, WHERE KNOWN; THIS WRECK WAS IDENTIFIED AS GRECIAN;

WRECK SYMBOL WAS ADDED TO PUBLISHED CHART IN 1953 FROM THIS SOURCE UNDER CHARTING POLICY ESTABLISHING A SERIES OF WRECK CHARTS. 195 LORAN C RATES PROVIDED BY MR. RICHARD TARACKA, GREENWICH, CT. POLICE DEPARTMENT, TEL NO. 203-622-8007; 9960-Y 43838.8,, 9960-X 25823.8; LAT 41-04-26.75N, LONG 71-32-18.71W (COMPUTED FROM LORAN RATES);THIS POSITION IS ON TOP OF BOILER; BOW IS NORTHWEST OF THIS POSITION; BOW RISES APPROXIMATELY 23 FT. OFF THE BOTTOM. (ENTERED MSM 3/89)

206 STEEL FREIGHTER, GRECIAN, STRUCK BY STEAMSHIP, CITY OF CHATTANOOGA, ON MAY 27,1932; STRUCK ON PORT SIDE JUST AFT OF THE SMOKESTACK, CUTTING A HOLE ABOUT 2 OR 3 FT. DEEP; IMPACT WAS SLIGHT AND SEAS WERE MODERATE; LORAN C RATES: 9960-W 14546.7, 9960-Y 43839.7; PA 41-04.35N, 71-32.14W; IN 100 FT. OF WATER; 2827 GROSS TONS; 263 FT. LONG, 42 FT. BEAM; BUILT IN 1900 BY HARLAND AND HOLLINGSWORTH CO., WILMINGTON, DELAWARE. (ENTERED MSM 2/90)

Survey Summary

Charts Affected: 13215_1, 13205_1, 13218_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

WRECKS/remrks: Wreck of Grecian found by MBES
WRECKS/invreq: Type: GRECIAN, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: SSS, MB

Feature Correlation

Source	Feature	Range	Azimuth	Status
AWOIS_EXPORT	AWOIS # 7207	0.00	000.0	Primary

Hydrographer Recommendations

Update charted depth and position.

Cartographically-Rounded Depth (Affected Charts):

80ft (1321_1, 13205_1, 13218_1)
13fm (12300_1, 13006_1,
24m (5161_1)

S-57 Data

Geo object 1: Wreck (WRECKS)

Attributes: CATWRK - 1:non-dangerous wreck

NINFOM - Add wreck

QUASOU - 6:least depth known

SORDAT - 20120829

SORIND - US,US,graph,H12431

TECSOU - 3:found by multi-beam

VALSOU - 24.442 m

WATLEV - 3:always under water/submerged

Office Notes

SAR NOTE. (AWIOS 7207) feature found at surveyed lat/lon. Updated charted depth and location. AWOIS 7207 database entry should be updated with H12431 results.

COMPILATION: Concur. Delete charted non-dangerous wreck, least depth 79 feet. Chart non-dangerous wreck, least depth 80.19 feet in the present survey position.

Feature Images

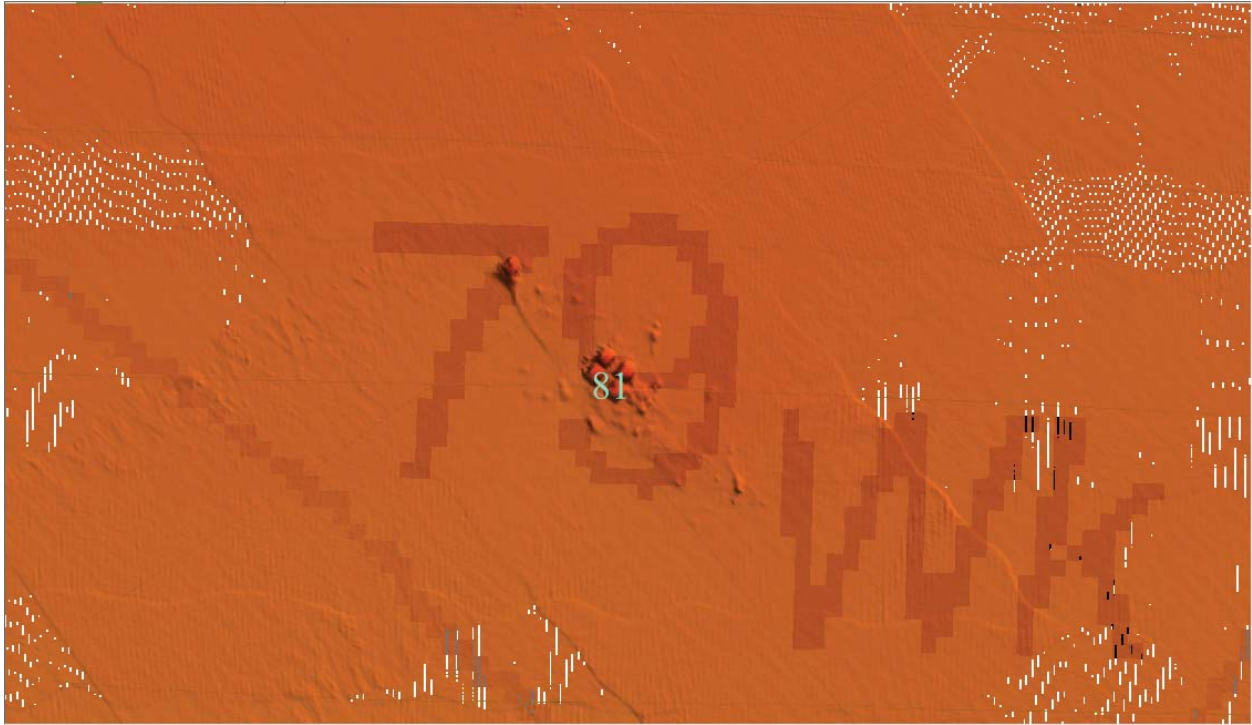


Figure 1.1.1

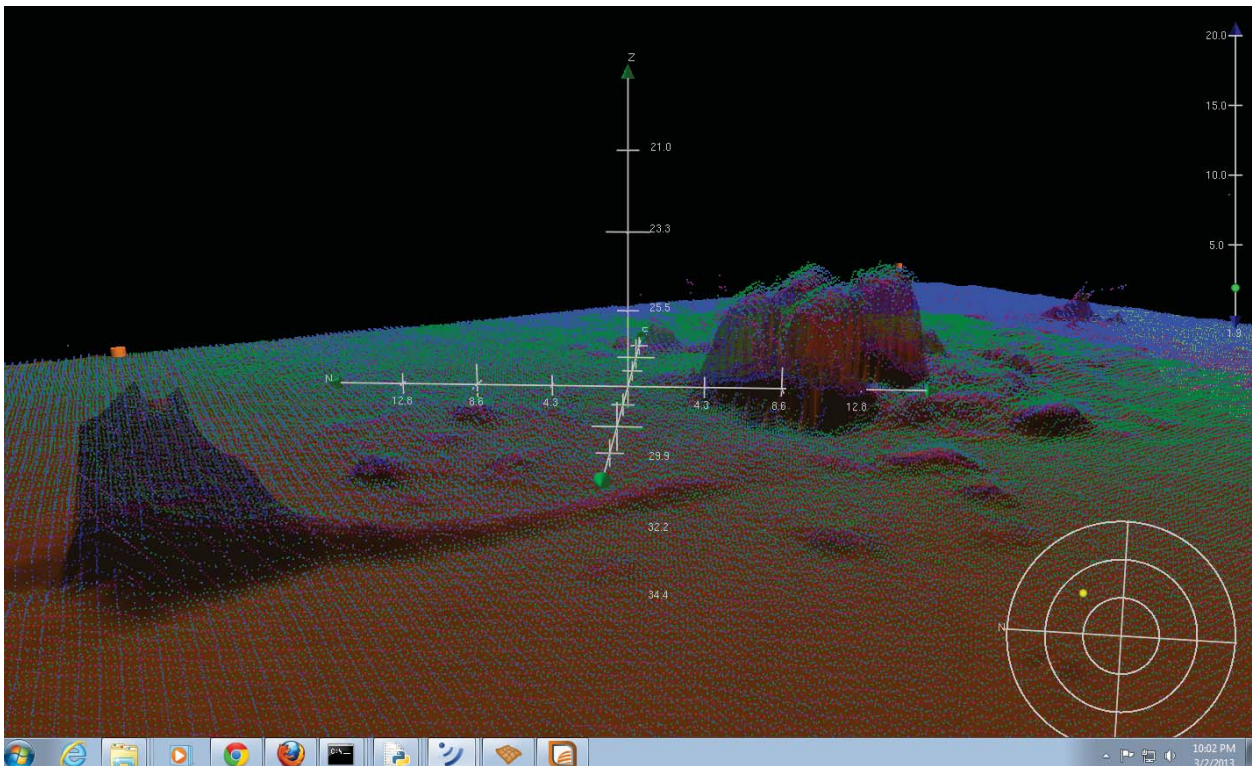


Figure 1.1.2

1.2) AWOIS #1784 - Uncharted AWOIS 1784

No Primary Survey Feature for this AWOIS Item

Search Position: 41° 05' 48.4" N, 071° 33' 16.2" W
Historical Depth: [None]
Search Radius: 1000
Search Technique: SSS, MB
Technique Notes: [None]

History Notes:

HISTORY

NM9/49--F/V, 2.5 MI S OF BLOCK ISLAND, MARKED W/WHISTLE BUOY AT POSITION ì
LAT 41-05-48N, LONG 71-33-18W.

FE364SS/91--OPR-B660-RU; A 200% SIDE SCAN SONAR INVESTIGATION ì
DID NOT LOCATE THE WRECK; CONSIDERED DISPROVED BY ì
HYDROGRAPHER AND EVALUATOR. (UPDATED 9/93 MCR)

DESCRIPTION

24 NO.570; TRAWLER; SUNK 1949; POSITION ACCURACY WITHIN 1 ì
MILE.

Survey Summary

Charts Affected: 13215_1, 13205_1, 13218_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

History of item shows a previous disproof. Entire search radius investigated with MBES. No evidence of a wreck was found. Assigned AWOIS item disproved.

Feature Correlation

Source	Feature	Range	Azimuth	Status
AWOIS_EXPORT	AWOIS # 1784	0.00	000.0	Primary

Hydrographer Recommendations

Delete from AWOIS database.

S-57 Data

[None]

Office Notes

SAR: (AWOIS 1784) Ensonified with CC MBES. No evidence of this feature was found.

COMPILATION: Concur. No evidence of the uncharted AWOIS item was found during present survey operations. It is recommended the AWOIS database is updated based on the present survey findings.

1.4) AWOIS #7666 - Uncharted AWOIS 7666 - APPLETREE

No Primary Survey Feature for this AWOIS Item

Search Position: 41° 04' 21.8" N, 071° 31' 06.3" W
Historical Depth: [None]
Search Radius: 500
Search Technique: SSS, MB
Technique Notes: [None]

History Notes:

SURVEY REQUIREMENT COMMENTS

SEARCH AROUND THE LORAN COORDINATES RATHER THAN THE GEOGRAPHIC POSITION.

HISTORY

FE364SS/91--OPR-B660-RU; WRECK WAS NOT LOCATED BY 200% SIDE SCAN SONAR INVESTIGATION AND IS CONSIDERED DISPROVED BY HYDROGRAPHER/EVALUATOR. (ENTERED 9/93 MCR)

DESCRIPTION

195 LORAN C COORDINATES PROVIDED BY MR. RICHARD TARACKA, GREENWICH, CT. POLICE DEPARTMENT, TEL NO 203-622-8020; 9960-W 14540.0, 9960-Y 43836.5; LAT 41-04-21.4N, LONG 71-31-08.1W (NAD27)(COMPUTED FROM LORAN RATES); IDENTIFIED AS THE APPLETREE. (ENTERED MSD 8/91)

Survey Summary

Charts Affected: 13215_1, 13205_1, 13218_1, 12300_1, 13006_1, 5161_1, 13003_1

Remarks:

History shows item has been previously disproved. Entire search radius investigated with MBES. No evidence of a wreck was discovered. Assigned AWOIS item disproved.

Feature Correlation

Source	Feature	Range	Azimuth	Status
AWOIS_EXPORT	AWOIS # 7666	0.00	000.0	Primary

Hydrographer Recommendations

Delete from AWOIS database.

S-57 Data

[None]

Office Notes

SAR: (AWOIS 7666) Ensonified with CC MBES. No evidence of this feature was found.

COMPILATION: Concur. No evidence of the uncharted AWOIS item was found during present survey operations. It is recommended the AWOIS database is updated based on the present survey findings.

APPROVAL PAGE

H12431

Data meet or exceed current specifications as certified by the OCS survey acceptance review process. Descriptive Report and survey data except where noted are adequate to supersede prior surveys and nautical charts in the common area.

The following products will be sent to NGDC for archive

- H12431_DR.pdf
- Collection of depth varied resolution BAGS
- Processed survey data and records
- H12431_GeoImage.pdf

The survey evaluation and verification has been conducted according to current OCS Specifications, and the survey has been approved for dissemination and usage of updating NOAA's suite of nautical charts.

Approved: _____

LCDR Abigail Higgins
Chief, Atlantic Hydrographic Branch