

H12525

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

**DESCRIPTIVE REPORT**

Type of Survey: Navigable Area

Registry Number: H12525

**LOCALITY**

State(s): New York

General Locality: New York, NY

Sub-locality: South of Long Beach, NY.

**2013**

CHIEF OF PARTY  
Capt. Lawrence T. Krepp, NOAA

LIBRARY & ARCHIVES

Date:

**HYDROGRAPHIC TITLE SHEET**

**H12525**

**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(s): **New York**

General Locality: **New York, NY**

Sub-Locality: **South of Long Beach, NY.**

Scale: **10000**

Dates of Survey: **05/19/2013 to 06/13/2013**

Instructions Dated: **02/25/2013**

Project Number: **OPR-B310-TJ-13**

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

Chief of Party: **Capt. Lawrence T. Krepp, NOAA**

Soundings by: **Multibeam Echo Sounder**

Imagery by: **Side Scan Sonar 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 H12525

Project: OPR-B310-TJ-13

Locality: New York, NY

Sublocality: South of Long Beach, NY.

Scale: 1:10000

May 2013 - June 2013

**NOAA Ship *Thomas Jefferson***

Chief of Party: Capt. Lawrence T. Krepp, NOAA

### A. Area Surveyed

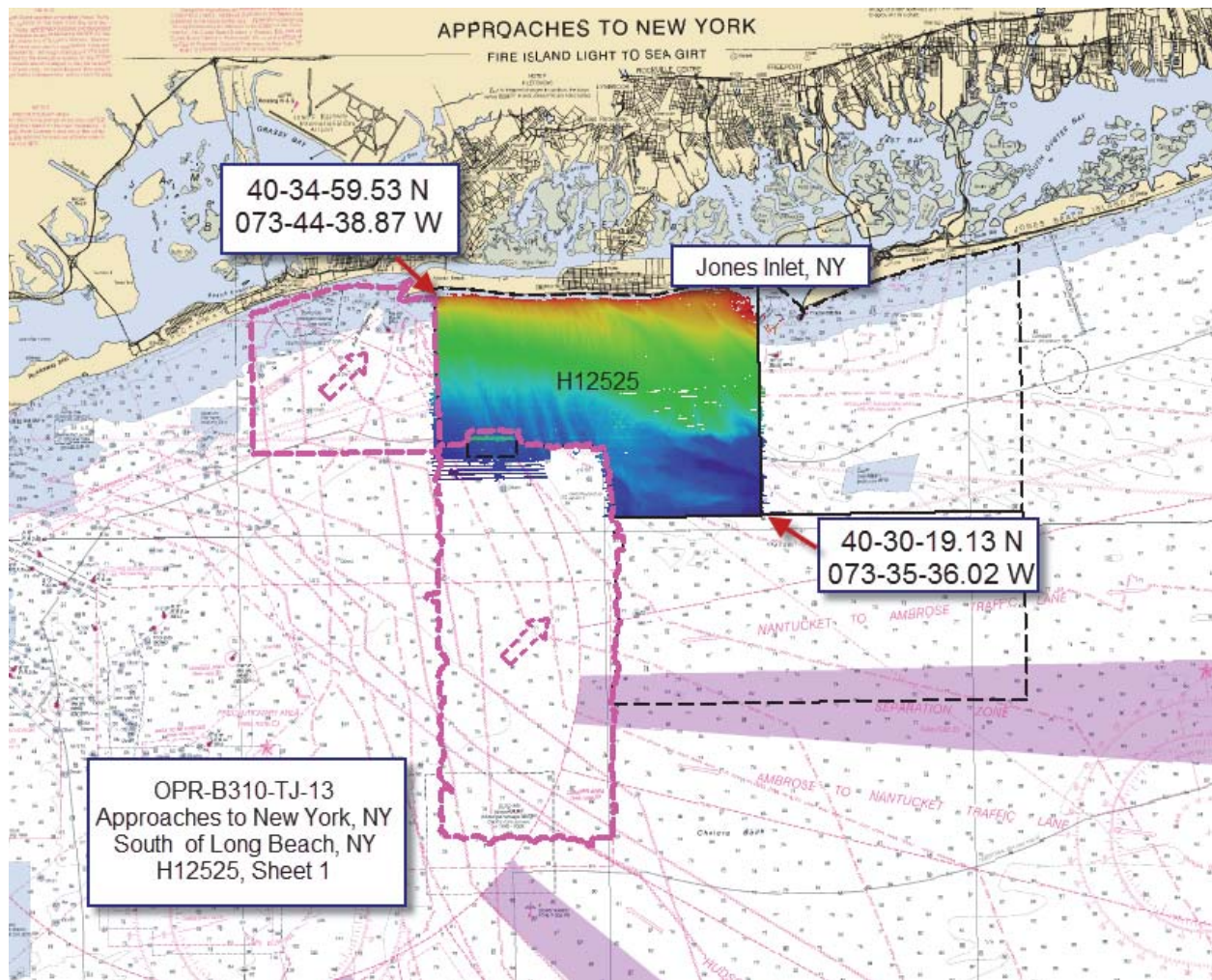
Survey H12525 was conducted in the vicinity New York, NY South of Long Beach, NY.

#### A.1 Survey Limits

Data were acquired within the following survey limits:

<b>Northwest Limit</b>	<b>Southeast Limit</b>
40° 34" 59.53' N 73° 44" 38.87' W	40° 30" 19.13' N 73° 35" 36.02' W

*Table 1: Survey Limits*



*Figure 1: Survey H12525 extents*

Coverage in the southwestern section of survey H12525 was expanded in the area of a fish haven with an authorized minimum depth of 40ft. More data was acquired than instructed in order to increase certainty of navigational safety. The survey expansion was covered by 100% side scan sonar data with concurrent MBES. After initial examination of the area, the Command decided against acquiring 200% coverage, having satisfied all concerns that the fish haven had exceeded charted bounds and charted least depths.

## **A.2 Survey Purpose**

The purpose of this project is to provide contemporary surveys to update National Ocean Service (NOS) nautical charting products.

## **A.3 Survey Quality**

The entire survey is adequate to supersede previous data.



Data acquired on survey H12525 met Set Line Spacing multibeam (MBES) coverage with concurrent 200% side scan sonar coverage requirements, including the 5 soundings per node data density requirements outlined in section 5.2.2.3 of the HSSDM, in 99.7% of the nodes. The charted fish haven located in the southwestern section of survey H12525 was covered with object detection MBES, rather than 200% side scan coverage with concurrent multibeam.

#### A.4 Survey Coverage

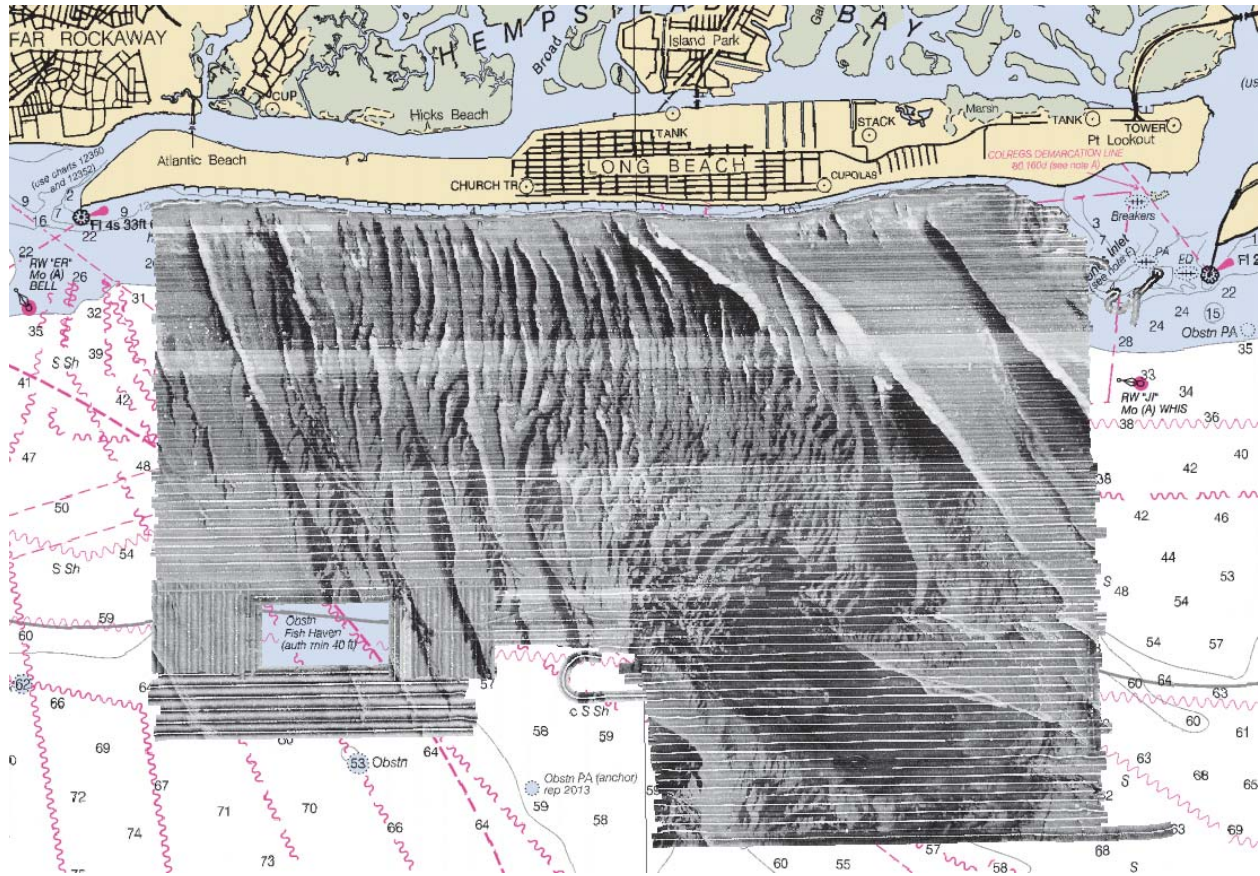


Figure 2: Survey H12525 side scan sonar coverage

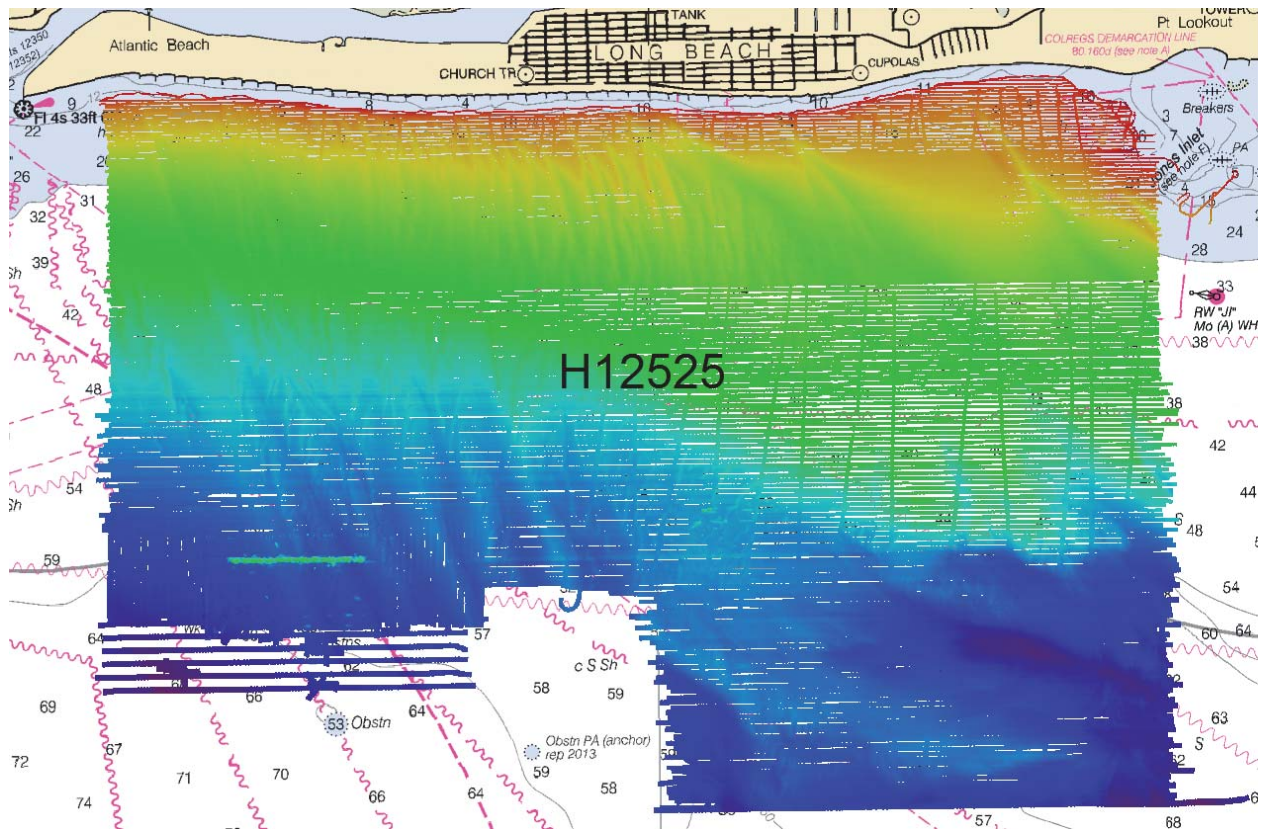


Figure 3: Survey H12525 multibeam coverage



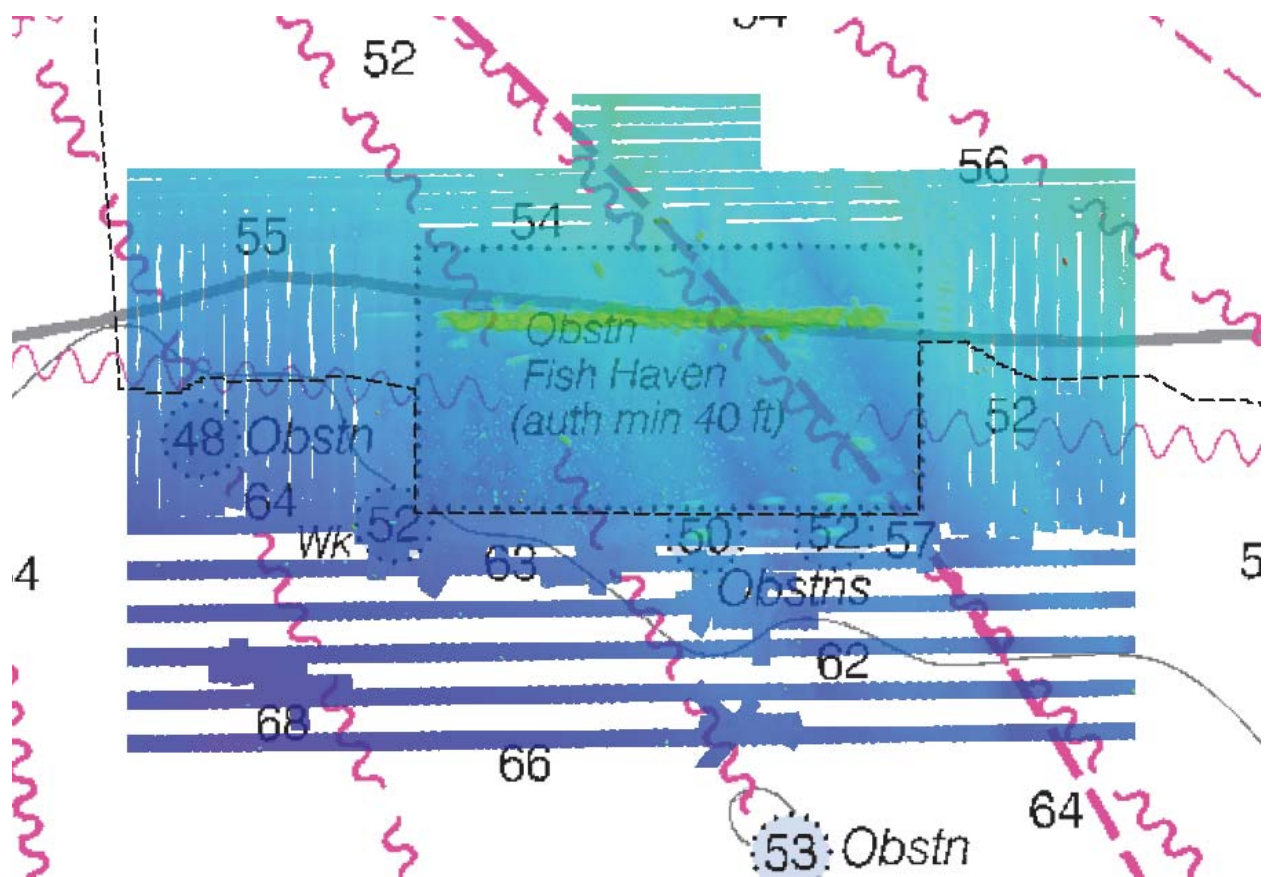


Figure 4: Additional survey coverage, 50cm surface shown

Overall, survey H12525 coverage requirements were met per the project instructions for OPR-B310-TJ-13. However, the southwestern fish haven was surveyed using object detection multibeam with no concurrent side scan sonar imaging and only 100% SSS data was acquired to the South of the fish haven as the Command was satisfied with initial results. A 200% SSS holiday exists in the southeastern section of the survey. Multibeam coverage density was taken as sufficient coverage.

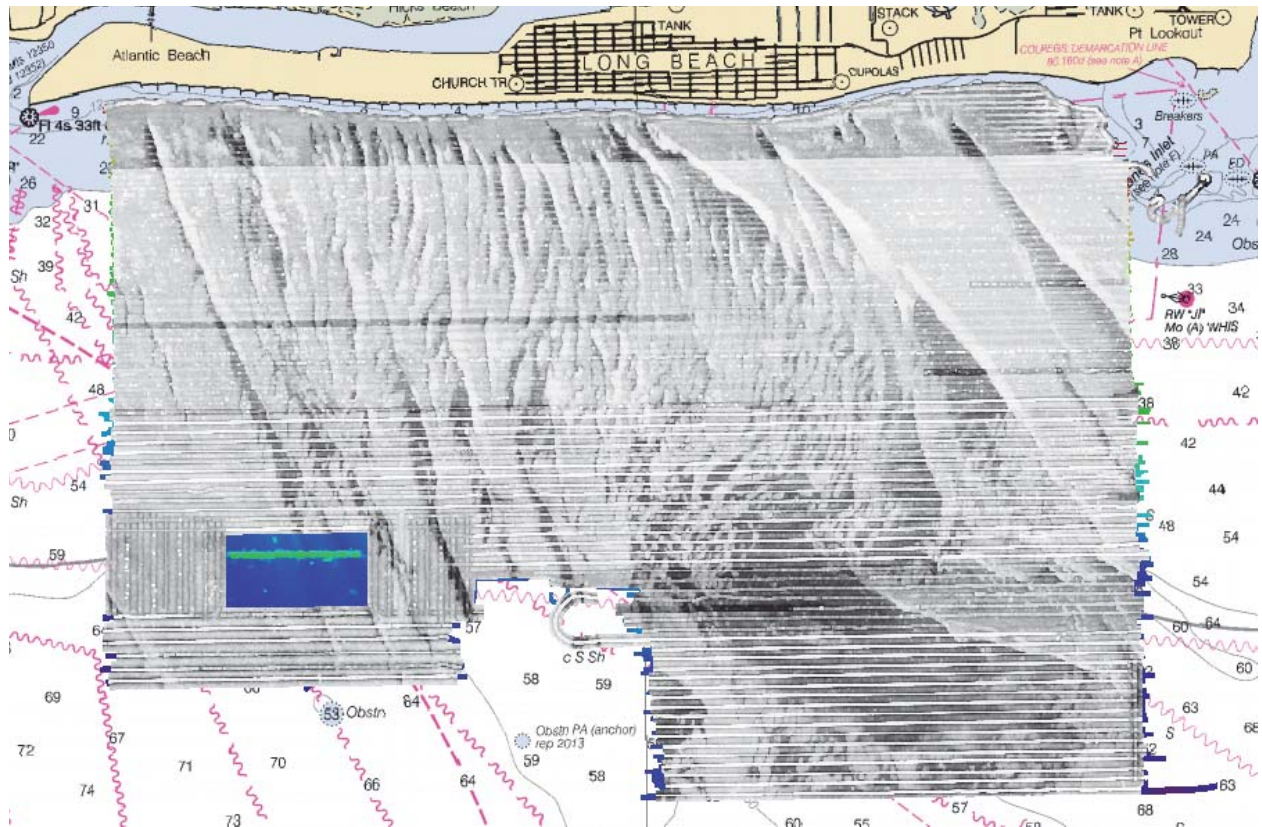


Figure 5: H12525 100% SSS imagery overlaid onto 4m final multibeam surface



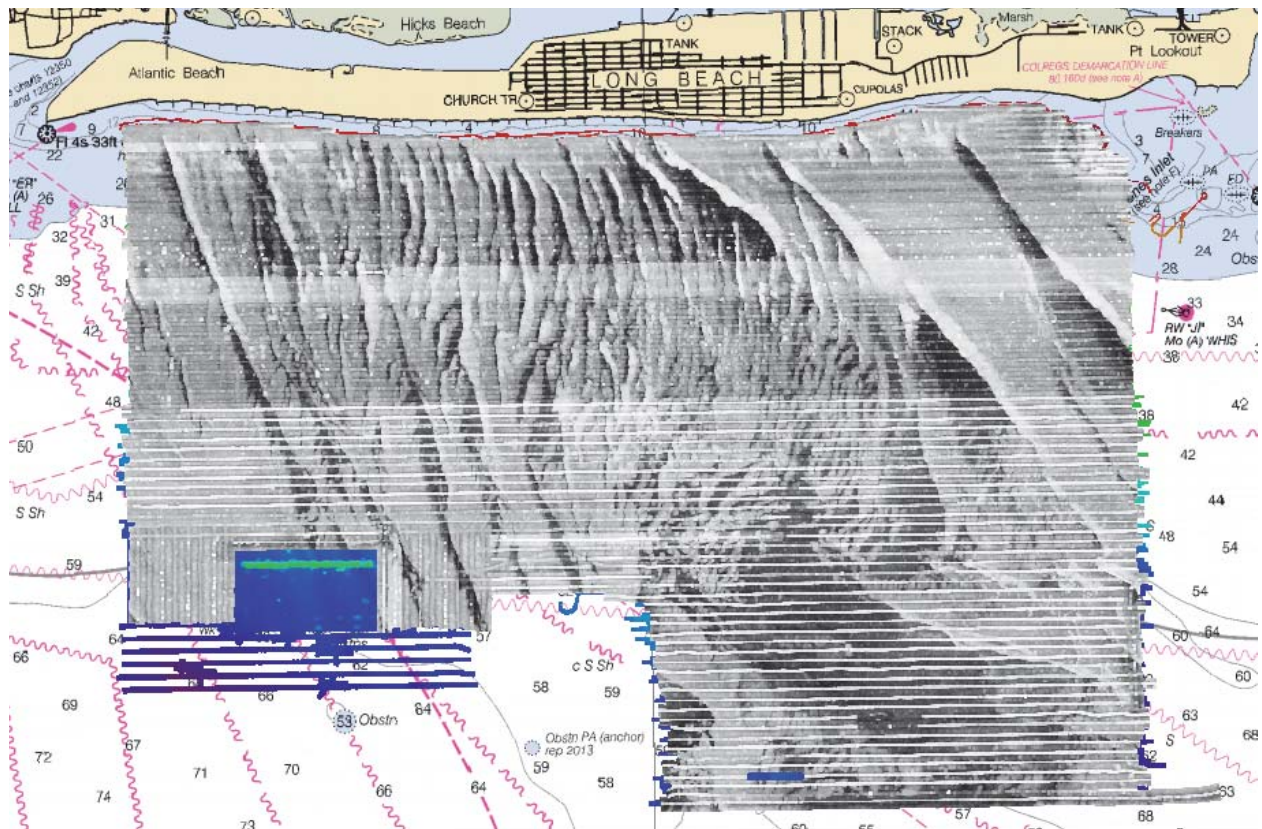


Figure 6: H12525 200% SSS imagery overlaid onto 4m final multibeam surface

## A.5 Survey Statistics

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

	Vessel	<i>S222</i>	<i>HSL 3101</i>	<i>HSL 3102</i>	<i>Total</i>
<b>LNM</b>	<b>SBES Mainscheme</b>	0	0	0	0
	<b>MBES Mainscheme</b>	29.36	76.07	34.95	140.38
	<b>Lidar Mainscheme</b>	0	0	0	0
	<b>SSS Mainscheme</b>	0	0	0	0
	<b>SBES/MBES Combo Mainscheme</b>	0	0	0	0
	<b>SBES/SSS Combo Mainscheme</b>	0	0	0	0
	<b>MBES/SSS Combo Mainscheme</b>	408.13	179.95	395.53	983.61
	<b>SBES/MBES Combo Crosslines</b>	53.21	41.72	0	94.93
	<b>Lidar Crosslines</b>	0	0	0	0
	<b>Number of Bottom Samples</b>				8
<b>Number AWOIS Items Investigated</b>				7	
<b>Number Maritime Boundary Points Investigated</b>				0	
<b>Number of DPs</b>				0	
<b>Number of Items Items Investigated by Dive Ops</b>				0	
<b>Total Number of SNM</b>				26	

Table 2: Hydrographic Survey Statistics

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

<b>Survey Dates</b>	<b>Julian Day Number</b>
05/19/2013	139
05/21/2013	141
05/22/2013	142
05/24/2013	144
05/29/2013	149
06/05/2013	156
06/06/2013	157
06/11/2013	162
06/12/2013	163
06/13/2013	164

*Table 3: Dates of Hydrography*

Side Scan Sonar (SSS) and complete multibeam (MBES) coverage was achieved within the limits of hydrography as defined in the Project Instructions.

## **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:

<b>Hull ID</b>	<i>S-222</i>	<i>HSL 3101</i>	<i>HSL 3102</i>
<b>LOA</b>	208 feet	31 feet	31 feet
<b>Draft</b>	15 feet	5.2 feet	5.2 feet

*Table 4: Vessels Used*

Data were acquired by NOAA Ship Thomas Jefferson, Hydrographic Survey Launch 3101, and Hydrographic Survey Launch 3102. NOAA Ship Thomas Jefferson collected multibeam echosounder soundings; side scan sonar imagery, sound velocity profiles, surface sound velocity readings, and position and attitude data. HSL 3101 and HSL 3102 acquired Reson multibeam echosounder soundings, multibeam backscatter data, side scan sonar imagery, sound velocity data, position and attitude data, and bottom samples.

### B.1.2 Equipment

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

<b>Manufacturer</b>	<b>Model</b>	<b>Type</b>
Klein	5000 V1	SSS
Reson	7125-ROV	MBES
Reson	7125-SV1	MBES
Applanix	POS-MV V4	Positioning and Attitude System
Brook Ocean Technology	MVP 100	Sound Speed System
AML Oceanographic	Smart SV&T	Sound Speed System
Reson	SV-70	Sound Speed System
Seabird	SBE 19 Plus	Conductivity, Temperature, and Depth Sensor

*Table 5: Major Systems Used*

Vessel configurations, equipment operations, and data acquisition & processing were consistent with specifications described in the DAPR.

## B.2 Quality Control

### B.2.1 Crosslines

Crosslines, acquired for this survey, totalled 9.65% of mainscheme acquisition.

The Thomas Jefferson and survey launch 3101 acquired 94.93 linear nautical miles of MBES crosslines, equating to 9.65% of mainscheme MBES data. Crosslines were compared to mainscheme using a difference surface, created in CARIS BathyData Base. A 4m CUBE surface was created using strictly mainscheme lines, while a second 4m CUBE surface was created using only crosslines. The two surface were then differenced.

The mean was -0.003 m and the standard deviation was 0.112 m. Survey H12525 complies with section 5.2.4.3 of the HSSD (2013 ed).

### B.2.2 Uncertainty

The following survey specific parameters were used for this survey:

Measured	Zoning
0.0 meters	0.080 meters
0.0 meters	0.102 meters

*Table 6: Survey Specific Tide TPU Values*

Hull ID	Measured - CTD	Measured - MVP	Surface
S222	N/A meters/second	1.0 meters/second	0.200 meters/second
3101	4.0 meters/second	N/A meters/second	0.200 meters/second
3102	4.0 meters/second	N/A meters/second	0.200 meters/second

*Table 7: Survey Specific Sound Speed TPU Values*

Total Propagated Uncertainty values for survey H12525 were derived using a combination of: real time uncertainties for vessel motion; a priori values for equipment and vessel characteristics; an a priori value for the separation model used to reduce soundings to chart datum; and field assigned values for sound speed uncertainties. The realtime uncertainties for vessel motion include roll, pitch, gyro, navigation, and elevation. The uncertainties in these measurements were recorded as part of the POSpac IAPPK 3D positional solution and were applied to the soundings via an SBET RMS file generated by Applanix POSpac. Uncertainties for sonar mounting and vessel speed were based on Appendix 4, table 4.9 of the NOAA Field Procedures Manual (FPM) (ed 2013). These were applied to the data via the CARIS HIPS Hydrographic Vessel File. The uncertainty associated with the VDatum separation model was supplied by the Hydrographic Services Division's Operations Branch, and is listed under the Zoning (see Table 6, row 2 column 2). Zoned tide uncertainty values (Table 6, row 1 column 2) were initially applied to data as an interim corrector in order to validate VDatum value supplied by OPS. Finally, the uncertainty associated with sound speed measurements were based on the frequency and location of CDT casts, in accordance with the guidance set by Appendix 4 of the FPM (ed 2013) (see Table 7).

Total Propagated Uncertainty was evaluated to ensure compliance with section 5.1.3 of NOAA's Hydrographic Survey Specification and Deliverables (HSSD). First the maximum allowable uncertainty for each node was calculated. Second the ratio between actual uncertainty and maximum allowed uncertainty is found for each node. The resulting 'IHO\_ratio' layer was filtered using a colour map to show any areas where actual uncertainty exceeded the maximum allowed uncertainty. For the 4m grid 5,373,516 nodes were evaluated and 99.9% were within IHO uncertainty.



### B.2.3 Junctions

Survey H12525 has a total of 4 junction surveys, two contemporary and two from the Thomas Jefferson's 2009 field season. The only available junction surface was that of survey H12527. Using a difference surface, the final 4m grid of survey H12525 was compared to survey H12527.

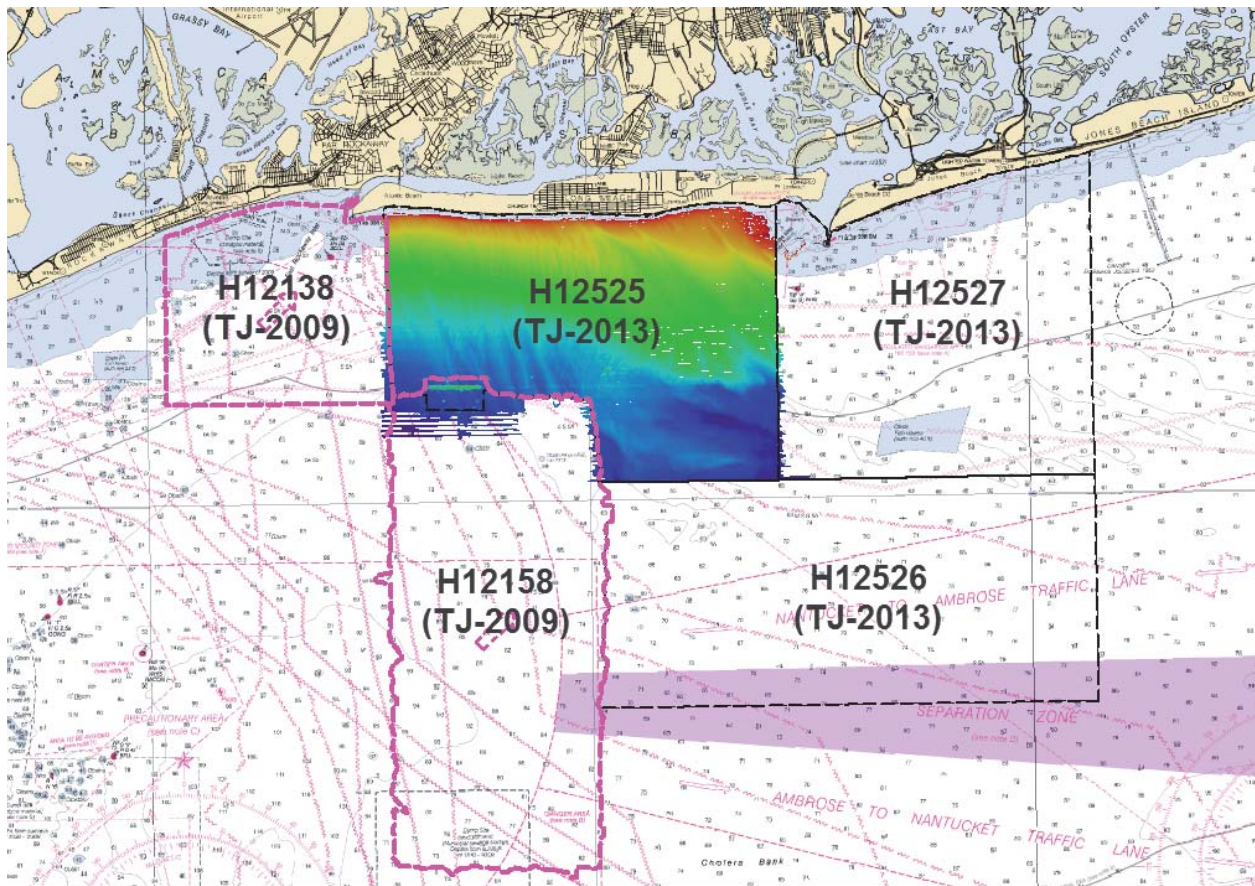


Figure 7: H12525 junction surveys

The following junctions were made with this survey:

Registry Number	Scale	Year	Field Unit	Relative Location
H12138	1:10000	2009	NOAA Ship THOMAS JEFFERSON	W
H12158	1:40000	2009	NOAA Ship THOMAS JEFFERSON	S
H12526	1:40000	2013	NOAA Ship THOMAS JEFFERSON	S
H12527	1:10000	2013	NOAA Ship THOMAS JEFFERSON	E

Table 8: Junctioning Surveys

H12138

Data unavailable for comparison.

H12158

Data unavailable for comparison

H12526

Data unavailable for comparison

H12527

H12525 compared very well with H12527, with differences ranging from -1.107m to 1.894m. The mean difference was 0.014m and the standard deviation is 0.114m. Out of 7181 nodes, 2 have a difference greater than 1m, for a 99.972% pass rate.

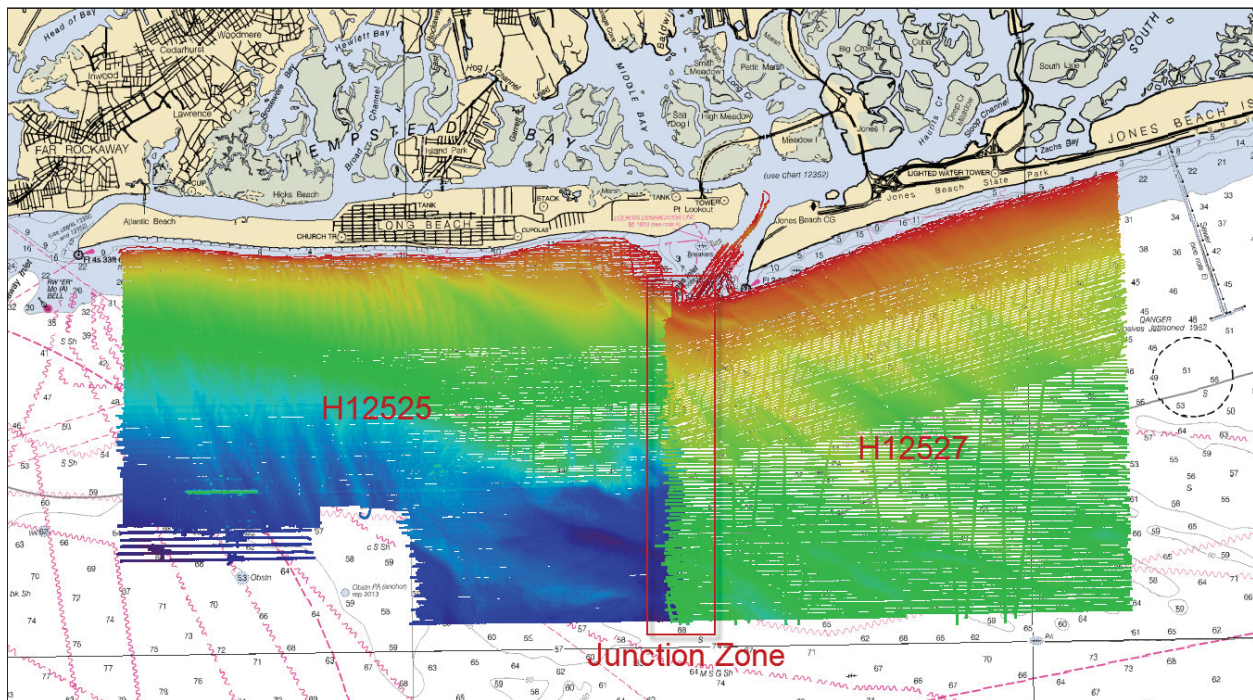


Figure 8: Junction of H12525 with H12527

## B.2.4 Sonar QC Checks

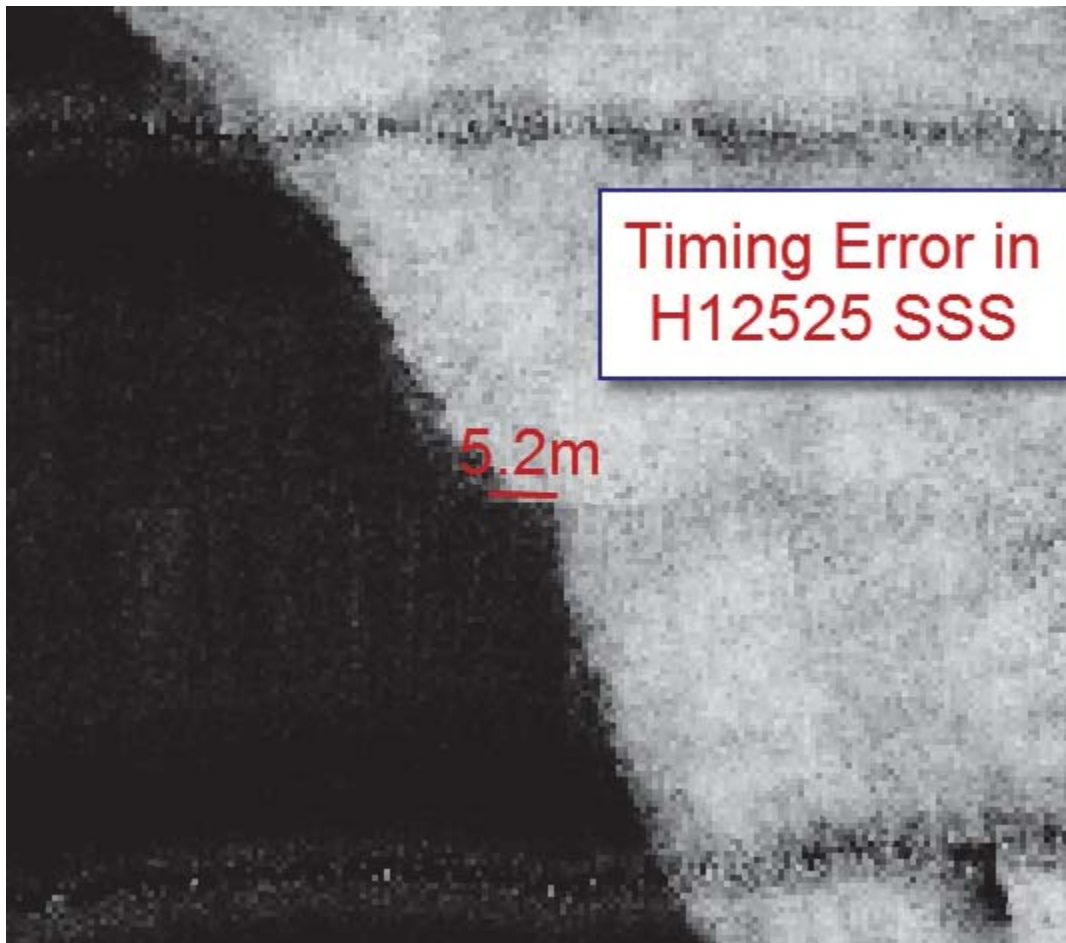
Sonar system quality control checks were conducted as detailed in the quality control section of the DAPR.



## B.2.5 Equipment Effectiveness

### Timing Error in SSS Data

There is an anomaly of unknown origin in the side scan data of H12525 that is causing a noticeable horizontal offset in the mosaic. In order to ensure all contacts were fully developed, the field unit extended multibeam acquisition lines over suspected features in the side scan data.



*Figure 9: SSS timing error in survey H12525*

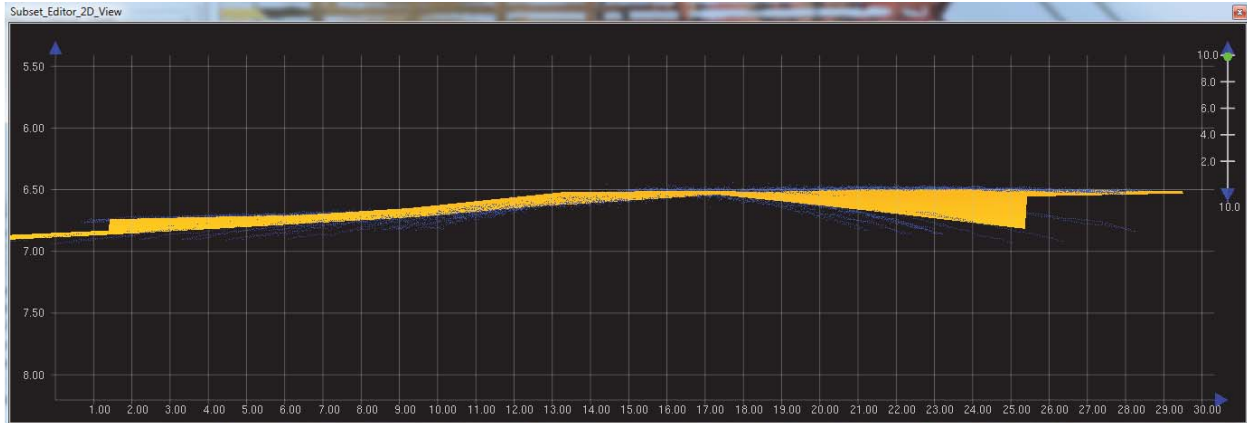
## B.2.6 Factors Affecting Soundings

### Sound Velocity Artifacts

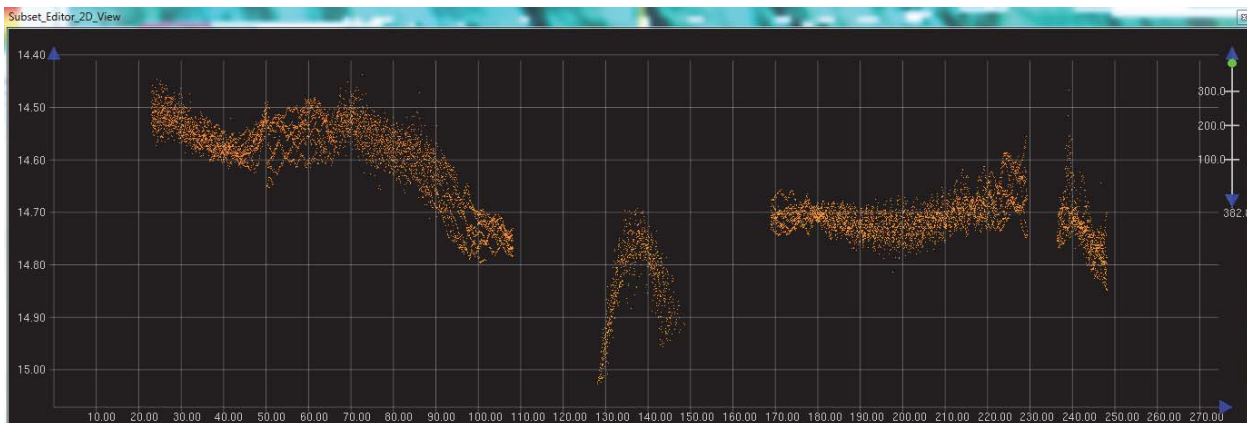
The hydrographer noted artifacts due to incorrect sound velocity modeling throughout survey H12525. The first artifact appears as upward or downward bowing of the multibeam swath, which has been attributed to insufficient frequency of sound velocity sampling (see figure 10). The second artifact stems from the complete loss of surface sound velocity input to the Reson system. Due to the loss, the Reson system was



unable to resolve beam formation of the returning ping. Data affected by this error was filtered to near nadir (see figure 11).



*Figure 10: Sound velocity blowout*



*Figure 11: Filtered sound velocity blowout*

### S-shaped artifact

An artifact of unconfirmed cause appears in the MB data collected by S222 Reson 7125-ROV. The artifact appears as an elongated ‘S’ shape across the swath (see figure 12). The field unit has encountered the ‘S’ shape in previous projects, and has historically attributed the artifact to an error in the 7125’s sectoring and beam steering algorithm.



Figure 12: S-shape artifact

### Vertical Offsets in Multibeam Data

An artifact due to errors in the vertical element of IAPPK positional solutions applied to the MB data acquired during the course of survey H12525. Application of GPS Tides caused some MB data to jump above or fall below the general trend of the CUBE surface (see figure 13). Despite these vertical offsets, IHO specifications were not violated.

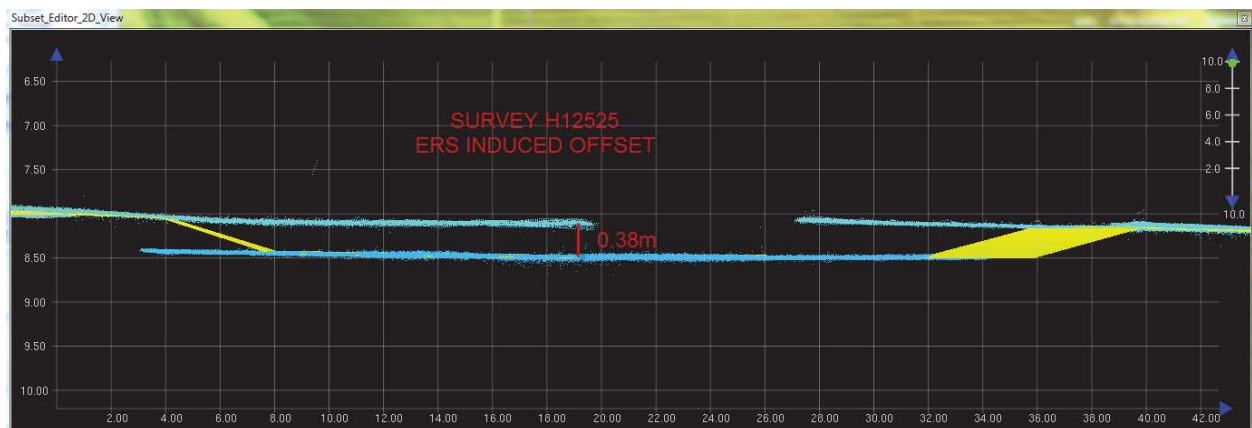


Figure 13: Example of vertical offset in survey H12525

### **B.2.7 Sound Speed Methods**

Sound Speed Cast Frequency: CTD casts were acquired every 2 to 4 hours from HSL 3101 and 3102. MVP casts were taken from the Thomas Jefferson every 20 to 30 minutes.

## **B.2.8 Coverage Equipment and Methods**

All equipment and survey methods were used as detailed in the DAPR.

## **B.2.9 Density Requirements for Survey H12525**

Survey H12525 is an object detection survey that utilized set line spacing for 200% SSS coverage with concurrent MBES data acquisition. Submitted grids adhere to the object detection coverage requirements of HSSD 2013 section 5.2.2.1. Density requirements for H12525 were analyzed using the compute statistics function in Caris BDB 4.0. It was found 99.7% of finalized 4m surface nodes contain five or more soundings.

## **B.3 Echo Sounding Corrections**

### **B.3.1 Corrections to Echo Soundings**

Survey lines 148\_128\_0705, 149\_227\_0134, 163\_405\_2115, 163\_433\_0210, 163\_426\_0116, 164\_378\_0054, 164\_416\_0112, 164\_412\_0126 (S222), 149\_072A1515, 149\_070\_1333, 149\_205\_1830, 149\_107\_2007, 149\_068\_1316 (3102), and 157\_323\_1405 (3101) failed to properly compute GPS tide in Caris 8.0.4. Therefore, the lines listed had GPS tide application processed in Caris 8.1. Please note, the Z-multiplier for the Caris .info file changes signs between versions 8.0 and 8.1. Both Caris .info files have been included in the submission of this survey.

### **B.3.2 Calibrations**

All sounding systems were calibrated as detailed in the DAPR.

## **B.4 Backscatter**

Raw Backscatter was logged as a 7k file and has been sent to the Processing Branch. Backscatter was not processed by the field unit.

## **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	8.0.2			05/14/2013	Processing
Caris	HIPS/SIPS	8.0.3			06/27/2013	Processing
Caris	HIPS/SIPS	8.0.4			07/18/2013	Processing
Caris	HIPS/SIPS	8.1.1			10/01/2013	Processing

*Table 9: Software Updates*

The following Feature Object Catalog was used: V5.3.2

### B.5.2 Surfaces

The following surfaces and/or BAGs were submitted to the Processing Branch:

Surface Name	Surface Type	Resolution	Depth Range	Surface Parameter	Purpose
H12525_MB_MLLW_4m_Final	CUBE	4.0 meters	1.25 meters - 21.57 meters	NOAA_4m	MBES TracklineSBES Set Line Spacing
H12525_MB_MLLW_50cm_Final	CUBE	0.5 meters	4.24 meters - 23.15 meters	NOAA_0.5m	Object Detection
H12525_SSS_100%	SSS Mosaic	1 meters	1.25 meters - 21.57 meters	N/A	100% SSS
H12525_SSS_200%	SSS Mosaic	1 meters	1.25 meters - 21.57 meters	N/A	200% SSS

*Table 10: Submitted Surfaces*

Per section 5.2.2.1 of the NOAA HSSD Manual (ed 2013), all multibeam data was incorporated into a single CUBE surface, gridded at 4m resolution. All SSS data was separated into percentages, then compiled into a mosaic at a 1m resolution. All required AWOIS and investigated features were combined in a 50cm object detection surface.

### B.5.3 Thermocline in Side Scan Sonar Imagery

Unfavorable thermocline affected portions of the side scan data throughout survey H12525. When thermocline was seen, the hydrographer inspected the affected area to ensure object detection was met by the overlapping percentage of side scan or the multibeam swath.

## C. Vertical and Horizontal Control

Per section 5.1.2.3 of the FPM, no Horizontal and Vertical Control Report has been generated for Survey H12525.

### 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
Sandy Hook, NJ	853-1680

*Table 11: NWLON Tide Stations*

File Name	Status
8531680_verified.tid	Final Approved

*Table 12: Water Level Files (.tid)*

File Name	Status
B310TJ2013CORP.zdf	Final

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

A request for final approved tides was sent to N/OPS1 on 06/18/2013. The final tide note was received on 09/30/2013.

Non-Standard Vertical Control Methods Used:

VDatum

Ellipsoid to Chart Datum Separation File:

2013\_B310\_VDatum\_Ellip\_MLLW.xyz

## **C.2 Horizontal Control**

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

The projection used for this project is UTM-18N.

The following PPK methods were used for horizontal control:

Smart Base

The following CORS Stations were used for horizontal control:

<b>HVCR Site ID</b>	<b>Base Station ID</b>
NYQN	NYQN
ZNY1	ZNY1
NYCI	NYCI
NYBR	NYBR
NJNT	NJNT
MOR6	MOR6
SHK5	SHK5
LAMT	LAMT
RVDI	RVDI

*Table 14: CORS Base Stations*

The following DGPS Stations were used for horizontal control:

<b>DGPS Stations</b>
Sandy Hook, NJ (286kHz)

*Table 15: USCG DGPS Stations*

## **D. Results and Recommendations**

### **D.1 Chart Comparison**

Chart comparisons for survey H12525 were conducted using a difference surface of the 4m final grid differenced against an interpolated TIN surface of ENC soundings. A comparison of ENC soundings to RNC soundings showed agreement.

Raster charts 12352\_5, 12356\_6, and 12326\_1 are effected by survey H12525 findings.

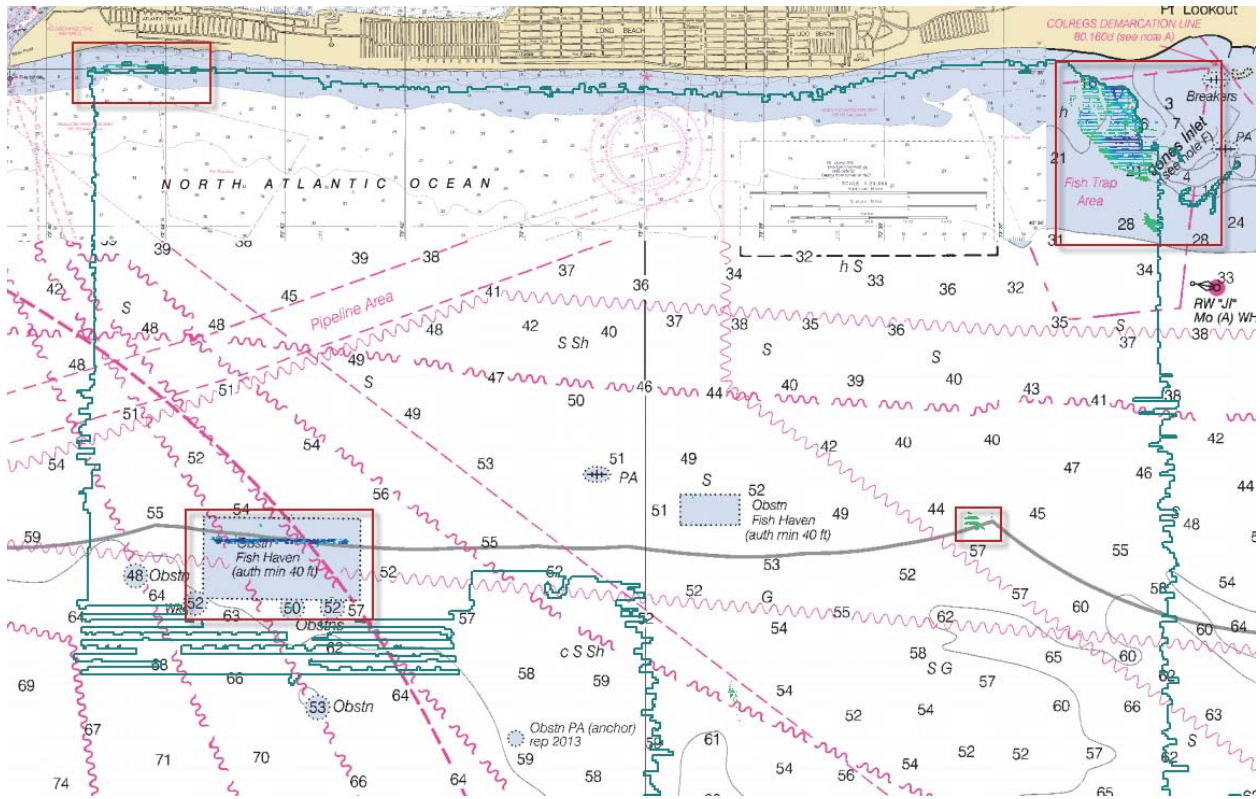


Figure 14: Overview of areas surveyed to be at least one foot shoal of charted soundings

**D.1.1 Raster Charts**

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

Chart	Scale	Edition	Edition Date	LNM Date	NM Date
12352	1:20000	34	09/2012	02/04/2014	02/15/2014
12326	1:80000	52	06/2013	12/24/2013	12/28/2013

Table 16: Largest Scale Raster Charts

12352

Overall, chart 12352 agrees with survey H12525. The majority of the surveyed depths are within 1ft of charted depths.

An area of concern (approximately 40-34-37.16N 073-36-01.63W) exists in the NE portion of survey H12525, in the vicinity of Jones Inlet. An area of surveyed depths is shown to be well shoal of charted depths, the maximum difference between charted soundings and surveyed soundings being 13.135ft (see figure 15).



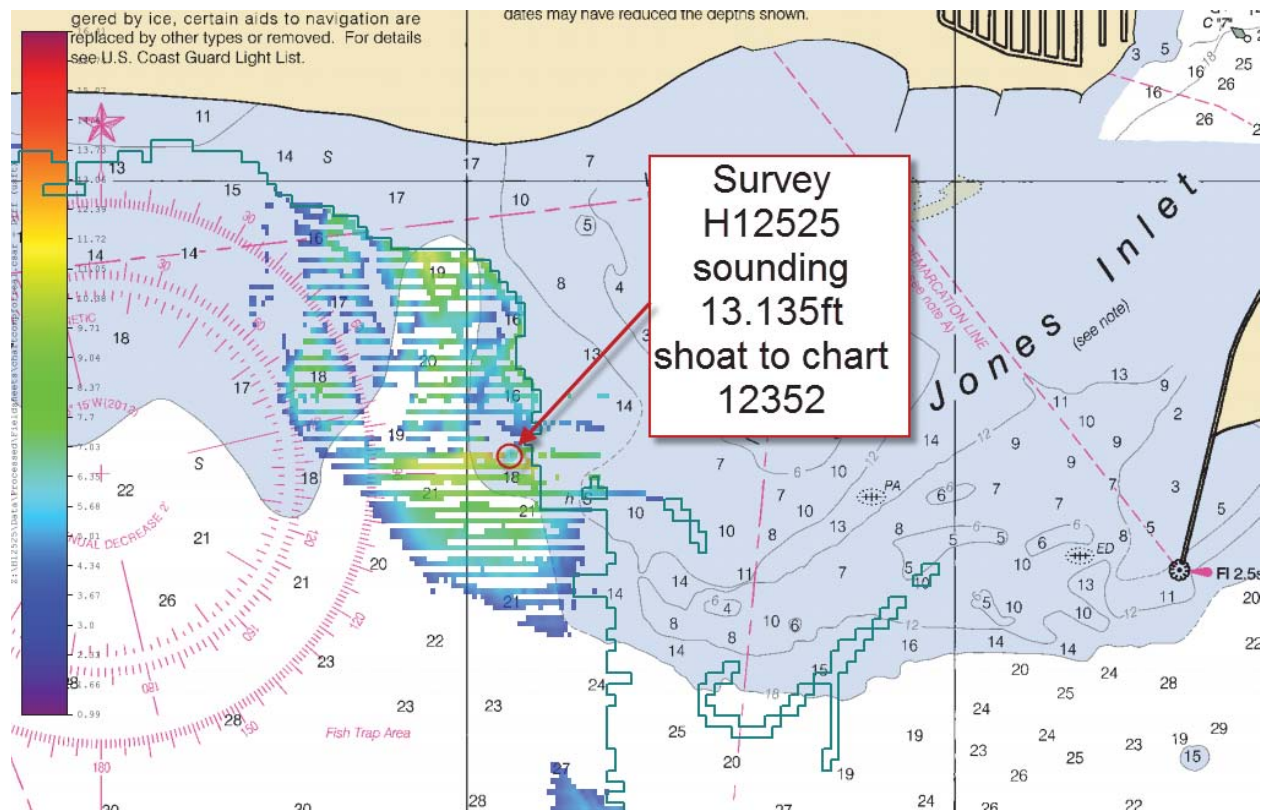


Figure 15: Jones Inlet shoaling on survey H12525, chart 12352

## 12326

Overall, chart 12326 agreed with survey H12525. The majority of the surveyed depths are within 1 ft of charted depths.

An area of concern (approximately 40-34-37.16N 073-36-01.63W) exists in the NE portion of survey H12525, in the vicinity of Jones Inlet. An area of surveyed depths is shown to be shoal to charted depths; survey soundings are approximately 13ft shoal to those charted (see figure 16).

In addition, there is a new, linear dredge spoil pile located within the SW section of survey H12525 (see figure 17). The maximum difference between surveyed soundings and charted soundings is 14ft, but the difference is unremarkable as the dredge spoils are located within a fish haven with an authorized minimum depth of 40ft, which is not exceeded.

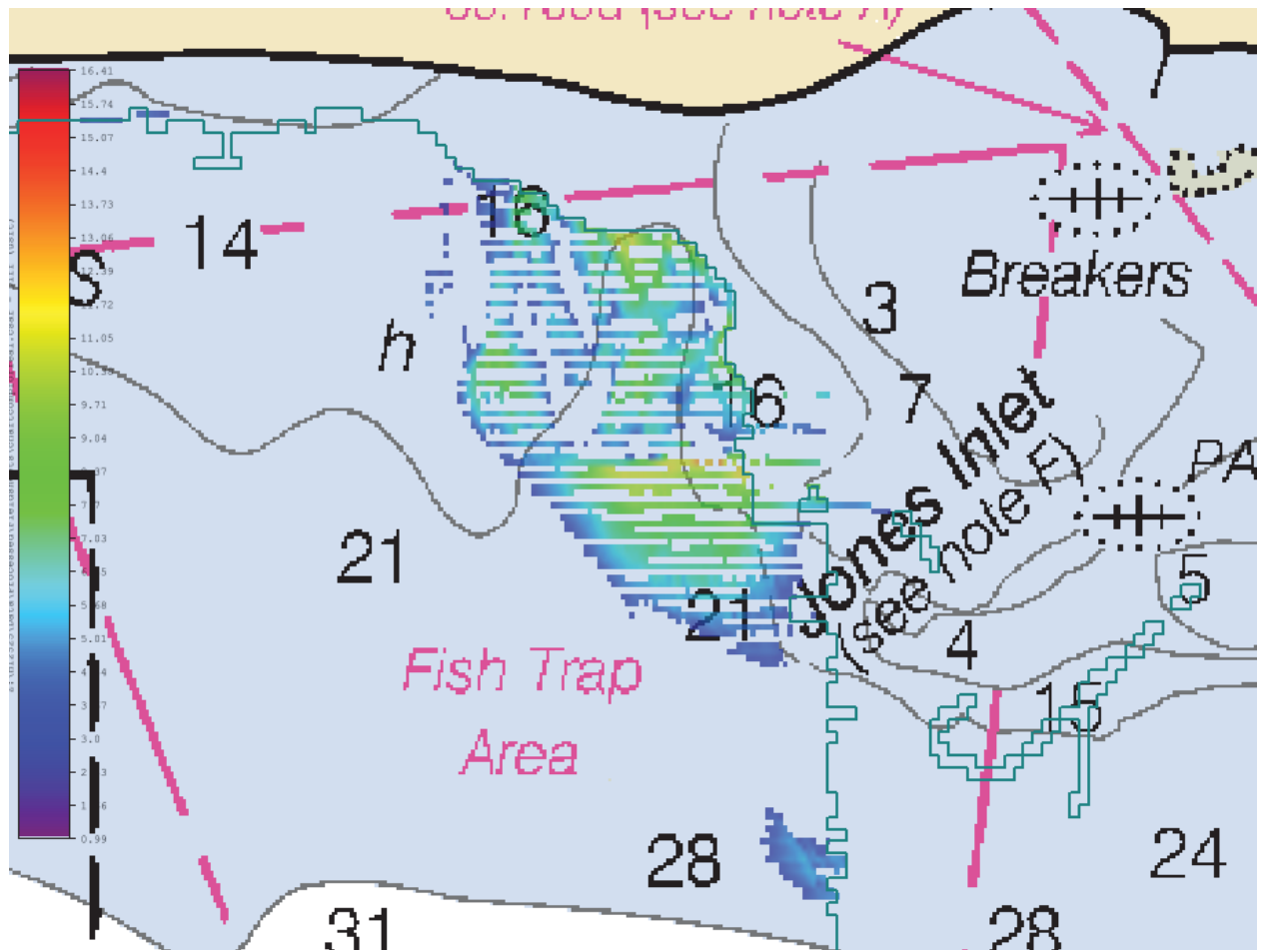


Figure 16: Jones Inlet shoaling on survey H12525, chart 12326

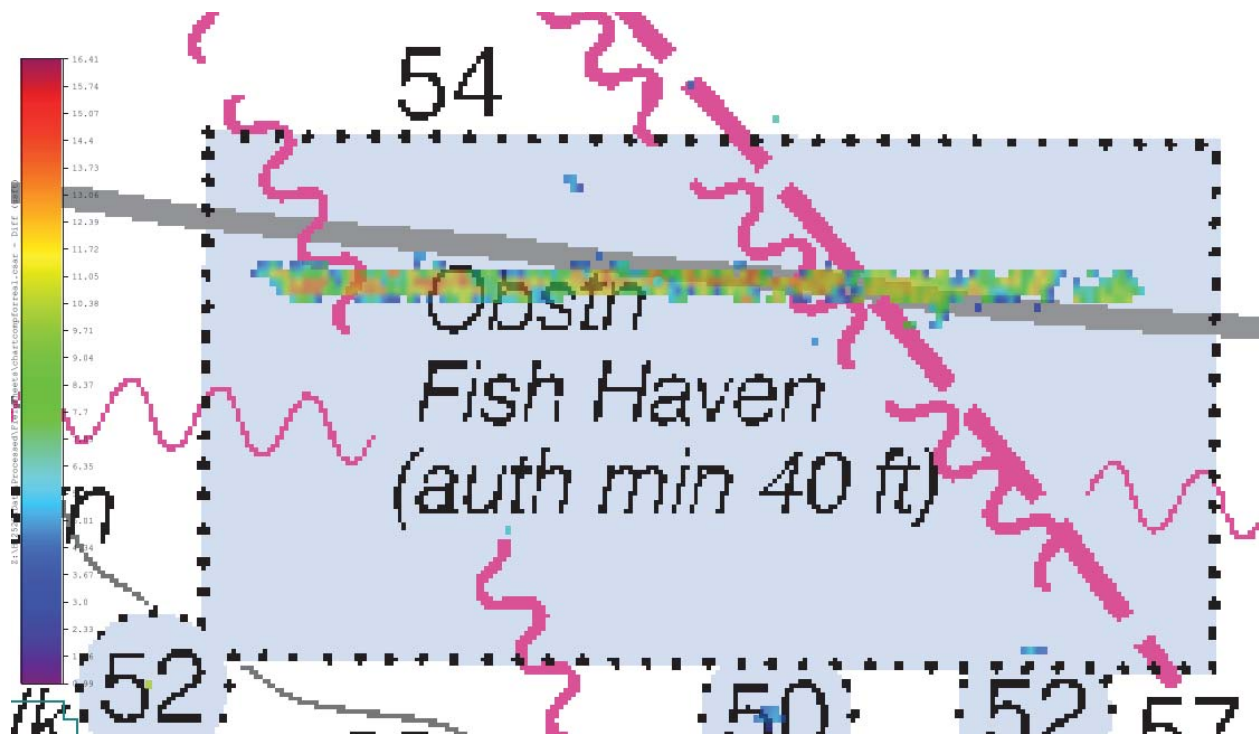


Figure 17: Fish haven depth difference, chart 12326

### D.1.2 Electronic Navigational Charts

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

ENC	Scale	Edition	Update Application Date	Issue Date	Preliminary?
US5NY53M	1:20000	10	12/05/0012	12/05/0012	NO
US5NY50M	1:20000	17	11/30/0012	11/30/0012	NO

Table 17: Largest Scale ENCs

#### US5NY53M

ENC US5NY53M generally agrees with soundings acquired for survey H12525 within 1ft.

Refer to the discussion of raster charts 12352 and 12326 for more detail.

#### US5NY50M

ENC US5NY50M generally agrees with soundings acquired for survey H12525 within 1ft.

Refer to the discussion of raster charts 12352 and 12326 for more detail.

### **D.1.3 AWOIS Items**

Survey H12525 has a total of 7 AWOIS items. For further details, refer to the Final Feature File.

### **D.1.4 Maritime Boundary Points**

No Maritime Boundary Points were assigned for this survey.

### **D.1.5 Charted Features**

Survey H12525 contains 2 charted soundings, both labeled PA; both were assigned AWOIS items and were fully investigated using 200% SSS with concurrent multibeam. Two charted fish havens and one charted dump site exist in survey H12525. Both fish havens were treated as full features and investigated using a combination of ODMB and or 200% SSS. A dump site is present in the northeastern section of the survey, but survey soundings do not indicate current use of the site. Finally, there were 3 charted obstructions located within the extended coverage. For further details, refer to the Final Feature File.

### **D.1.6 Uncharted Features**

Survey H12525 contains 2 uncharted features, which were fully investigated by 200% SSS with concurrent multibeam. For further details, refer to the Final Feature File.

### **D.1.7 Dangers to Navigation**

Danger to Navigation Reports are included in Appendix II of this report.

### **D.1.8 Shoal and Hazardous Features**

Hazardous shoaling has occurred at the entrance to Jones Inlet.

### **D.1.9 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.1.10 Bottom Samples**

A total of 8 bottom samples were collected within the boundaries of survey H12525.

## **D.2 Additional Results**

### **D.2.1 Shoreline**

Survey H12525 extents reach the 4m contour.

### **D.2.2 Prior Surveys**

No prior survey comparisons exist for this survey.

### **D.2.3 Aids to Navigation**

No Aids to navigation (ATONs) exist for this survey.

### **D.2.4 Overhead Features**

No overhead features exist for this survey.

### **D.2.5 Submarine Features**

Numerous pipeline areas and cables exist within the coverage area of survey H12525. No evidence was seen in multibeam data.

### **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**

Significant features exist for this survey, and were fully investigated. For complete details, refer to the Final Feature File.

**D.2.9 Construction and Dredging**

No present or planned construction or dredging exist within the survey limits.

**D.2.10 New Survey Recommendations**

No new surveys or further investigations are recommended for this area.

**D.2.11 New Inset Recommendations**



No new insets are recommended for this area.

## 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, 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
CDR James M. Crocker, NOAA	Commanding Officer	03/10/2014	 <small>James Crocker            cn=James Crocker, o=CO, NOAA            Ship Thomas Jefferson, ou=CDR/            NOAA,            email=james.m.crocker@noaa.gov,            c=US</small>
LT Megan R. Guberski, NOAA	Field Operations Officer	03/10/2014	 <small>LT            NOAA</small>
HST Allison C. Stone	Sheet Manager	03/10/2014	Allison Clare Stone <small>Digitally signed by Allison Clare Stone            DN: cn=Allison Clare Stone, o=NOAA, ou=NOAA Ship            Thomas Jefferson, email=allison.c.stone@noaa.gov,            c=US            Date: 2014.03.10 09:48:08 -0400</small>

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 :** June 24, 2013

**HYDROGRAPHIC BRANCH:** Atlantic  
**HYDROGRAPHIC PROJECT:** OPR-B310-TJ-2013  
**HYDROGRAPHIC SHEET:** H12527

**LOCALITY:** SW of Jones Beach Island, Approaches to NY, NY  
**TIME PERIOD:** May 29 - June 12, 2013

**TIDE STATION USED:** 8531680 Sandy Hook, NJ  
Lat.40° 28.01'N Long. 74° 0.56' W

**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 1.492 meters

**REMARKS: RECOMMENDED ZONING**

Preliminary zoning is accepted as the final zoning for project OPR-B310-TJ-2013, H12527, during the time period between May 29 and June 12, 2013.

Please use the zoning file B310TJ2013CORP submitted with the project instructions for OPR-B310-TJ-2013, H12527. Zones SA4, SA5, SA12 and SA13 are the applicable zones for H12527.

**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).

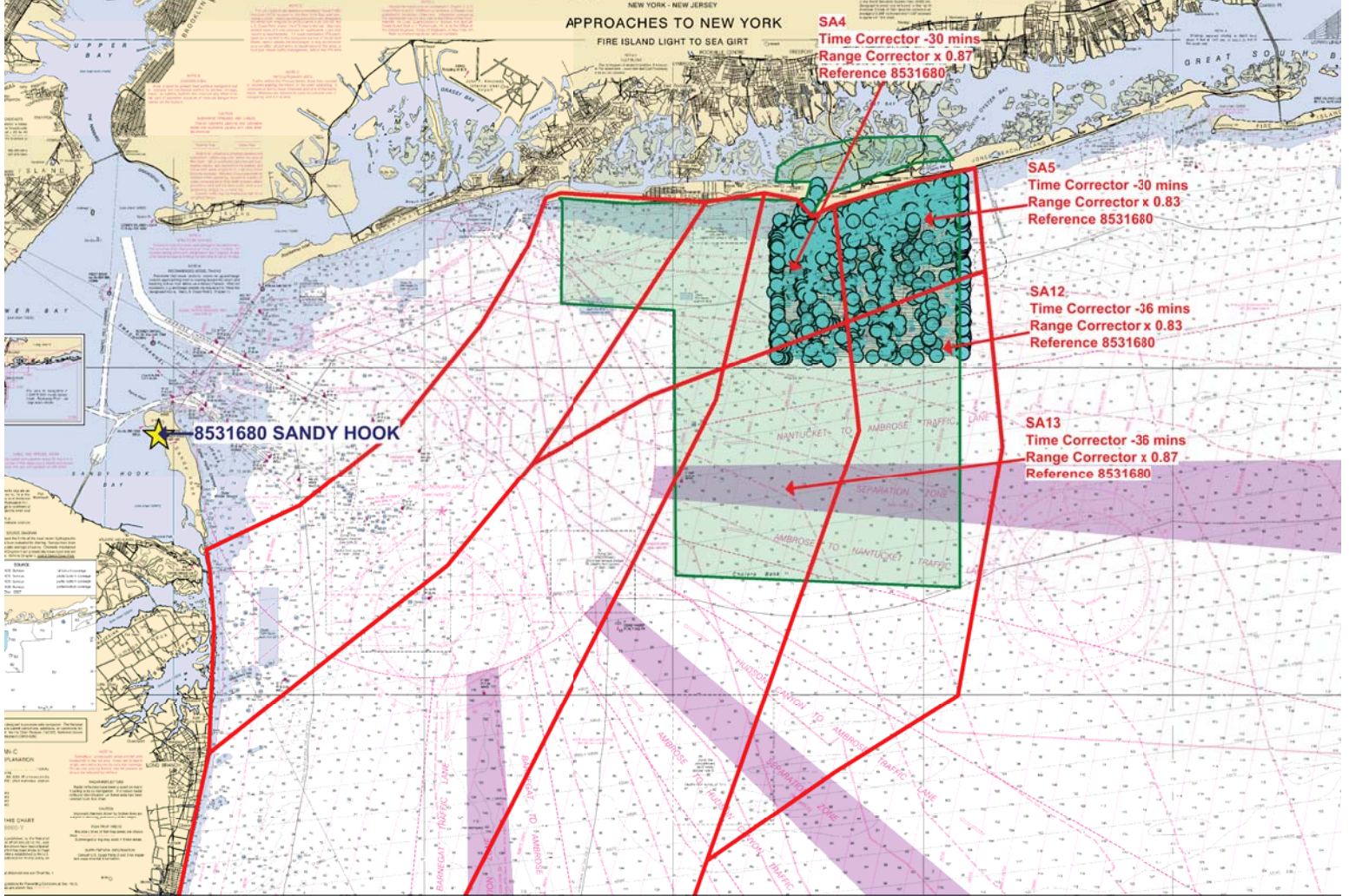
**Note 2:** Additional water level data is needed to provide zoning in Jones Inlet. Additional data, expected in the summer of 2013, may allow us to extend Sandy Hook's coverage into the bay areas in future projects.

**HOVIS.GERALD.THOMAS.1365860250**  
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: 2013.06.28 08:24:26 -04'00'

CHIEF, PRODUCTS AND SERVICES BRANCH



# Preliminary as Final Tidal Zoning for OPR-B310-TJ-2013, H12527 SW of Jones Beach Island, Approaches to New York, NY



APPENDIX II

SUPPLEMENTAL SURVEY RECORDS  
AND CORRESPONDENCE



Erin Weller - NOAA Federal &lt;erin.weller@noaa.gov&gt;

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## Tide Uncertainty for OPR-B310-TJ-2013, H12525

9 messages

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**Erin Weller - NOAA Federal** <erin.weller@noaa.gov>

Wed, Jun 4, 2014 at 3:21 PM

To: Gerald Hovis - NOAA Federal &lt;gerald.hovis@noaa.gov&gt;, Allison Stone - NOAA Federal &lt;allison.c.stone@noaa.gov&gt;

Hi Gerald,

I'm reviewing the TJ's survey from OPR-B310-TJ-2013, H12525 and looking for the tide measured and zoning uncertainty values provided by CO-OPS. Can you please provide me with those values?

Hi Allison,

Tide uncertainty values were not included for most of the lines the last time TPU was computed. The tide note submitted with H12525 is from H12527 and does not include uncertainty values. It is unclear from the DR which values were supposed to be used. I'm working to resolve whether or not the data meets specification. Please provide any details you have to resolve the discrepancy.

Thank you,  
Erin C. Weller  
Physical Scientist  
NOAA's National Ocean Service  
Office of Coast Survey, Hydrographic Surveys Division  
Atlantic Hydrographic Branch  
[757.441.6746](tel:757.441.6746)

---

**Gerald Hovis - NOAA Federal** <gerald.hovis@noaa.gov>

Thu, Jun 5, 2014 at 8:27 AM

To: Erin Weller - NOAA Federal &lt;erin.weller@noaa.gov&gt;, "\_NOS.CO-OPS.HTP" &lt;NOS.COOPS.HPT@noaa.gov&gt;, Allison Stone - NOAA Federal &lt;allison.c.stone@noaa.gov&gt;

Erin,

HPT will help you with this question.

Jerry

[Quoted text hidden]

-

Jerry Hovis  
Products and Services Branch  
Oceanographic Division  
Center for Operational Oceanographic Products & Services  
National Ocean Service  
National Oceanographic Atmospheric Administration  
<http://www.tidesandcurrents.noaa.gov/>

[gerald.hovis@noaa.gov](mailto:gerald.hovis@noaa.gov)  
SSMC4, Sta. 7109  
1305 East-West Highway  
Silver Spring, MD 20910 USA  
Work: (301) 713-2890 x109



Cell: (240)-997-2651

Fax: (301) 713-4437

---

**Lijuan Huang - NOAA Affiliate** <lijuan.huang@noaa.gov>

Thu, Jun 5, 2014 at 10:32 AM

To: Gerald Hovis - NOAA Federal <gerald.hovis@noaa.gov>

Cc: Erin Weller - NOAA Federal <erin.weller@noaa.gov>, "\_NOS.CO-OPS.HTP" <NOS.COOPS.HPT@noaa.gov>, Allison Stone - NOAA Federal <allison.c.stone@noaa.gov>

Hi Erin,

There is no hourly or 6-min data in the survey area for a direct TPE calculation. The TPE between Sandy Hook 8531680 and Fire Island 8535186 is 0.25m. You may use the 0.25m value for the survey tracklines offshore. For the survey tracklines in Jones Inlet, there is no data that we can use to determine if the tide reduction meets specification. That is why we didn't provide zoning in Jones Inlet.

Regards,

Lijuan

[Quoted text hidden]

—

Lijuan Huang

NOAA/NOS/CO-OPS/Hydro Planning Team

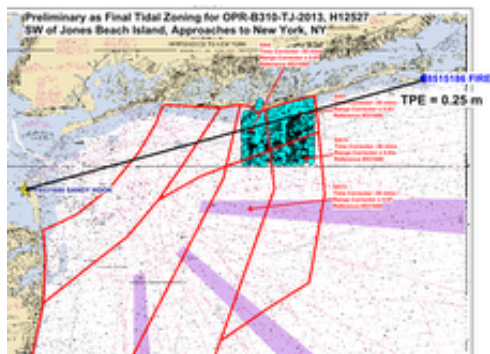
1305 East-West Highway

N/OPS3, Sta. 7342, SSMC4

Silver Spring, MD 20910-3218

Email: [lijuan.huang@noaa.gov](mailto:lijuan.huang@noaa.gov)

Phone: 1-301-713-2890 x192



H12527.png

106K

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**Erin Weller - NOAA Federal** <erin.weller@noaa.gov>

Thu, Jun 5, 2014 at 1:48 PM

To: Castle Parker - NOAA Federal <castle.e.parker@noaa.gov>

FYI

Erin C. Weller

Physical Scientist

NOAA's National Ocean Service

Office of Coast Survey, Hydrographic Surveys Division

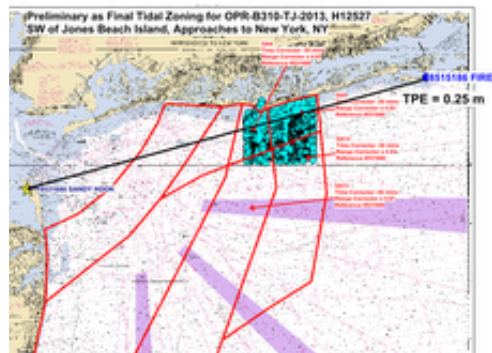
Atlantic Hydrographic Branch

757.441.6746

----- Forwarded message -----

From: **Lijuan Huang - NOAA Affiliate** <lijuan.huang@noaa.gov>

Date: Thu, Jun 5, 2014 at 10:32 AM  
Subject: Re: Tide Uncertainty for OPR-B310-TJ-2013, H12525  
To: Gerald Hovis - NOAA Federal <gerald.hovis@noaa.gov>  
[Quoted text hidden]



H12527.png  
106K

Erin Weller - NOAA Federal <erin.weller@noaa.gov>  
To: Castle Parker - NOAA Federal <castle.e.parker@noaa.gov>

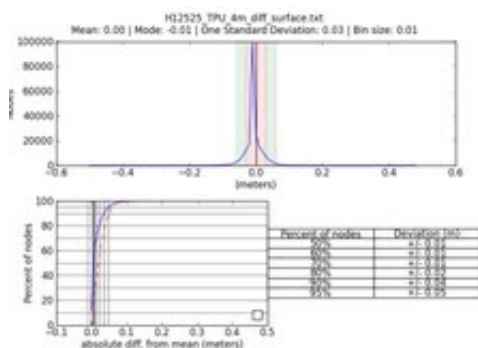
Thu, Jun 5, 2014 at 3:32 PM

The difference between the non-tide zoning TPU vs TPU tide (0.005 measured, 0.25 zoning) surfaces looks reasonable. I believe we can carry on without recomputing TPU, refinalizing....etc.  
If you feel ok with it, I will document heavily in the SAR and move on without the values?

Erin C. Weller  
Physical Scientist  
NOAA's National Ocean Service  
Office of Coast Survey, Hydrographic Surveys Division  
Atlantic Hydrographic Branch  
757.441.6746

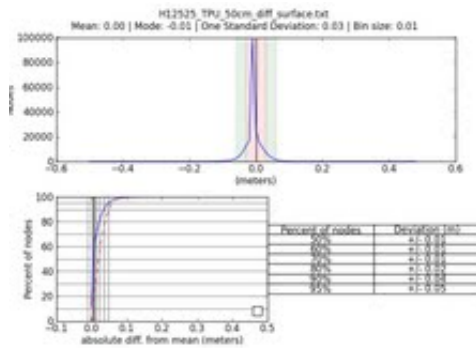
[Quoted text hidden]

2 attachments



H12525\_TPU\_4m\_diff.jpeg  
60K





H12525\_TPU\_50cm\_diff.jpeg

60K

**Castle Parker - NOAA Federal** <castle.e.parker@noaa.gov>  
To: Erin Weller - NOAA Federal <erin.weller@noaa.gov>

Thu, Jun 5, 2014 at 4:07 PM

Roger that... the mean is 0.0m and STD =0.03; this is negligible. Continue with current grids and document.

Thanks.

gp

**From:** Erin Weller - NOAA Federal [mailto:[erin.weller@noaa.gov](mailto:erin.weller@noaa.gov)]  
**Sent:** Thursday, June 05, 2014 3:33 PM  
**To:** Castle Parker - NOAA Federal

[Quoted text hidden]

[Quoted text hidden]

**Lijuan Huang - NOAA Affiliate** <lijuan.huang@noaa.gov>  
To: Gerald Hovis - NOAA Federal <gerald.hovis@noaa.gov>  
Cc: Erin Weller - NOAA Federal <erin.weller@noaa.gov>, "\_NOS.CO-OPS.HTP" <NOS.COOPS.HPT@noaa.gov>, Allison Stone - NOAA Federal <allison.c.stone@noaa.gov>

Fri, Jun 6, 2014 at 10:07 AM

Hi Erin,

We have received water level data inside Jones Inlet from an OCS contract project. We'll provide you with a more accurate TPE value by early next week.

Thanks,

Lijuan

[Quoted text hidden]

**Lijuan Huang - NOAA Affiliate** <lijuan.huang@noaa.gov>  
To: Gerald Hovis - NOAA Federal <gerald.hovis@noaa.gov>  
Cc: Erin Weller - NOAA Federal <erin.weller@noaa.gov>, "\_NOS.CO-OPS.HTP" <NOS.COOPS.HPT@noaa.gov>, Allison Stone - NOAA Federal <allison.c.stone@noaa.gov>

Mon, Jun 9, 2014 at 9:45 AM

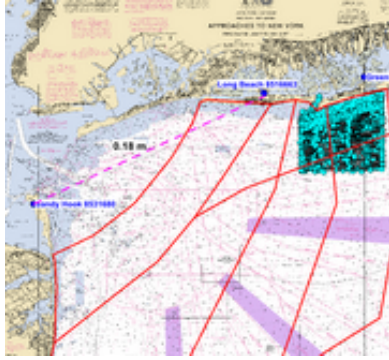
Hi Erin,

The TPE between Sandy Hook 8531680 and Long Beach 8516663 is 0.18m using 2-month data series between Jan 1, 2014 and Feb 28, 2014. You may use the 0.18m value for the entire survey tracklines for H12525 (H12527). Please let me know if you have any questions.

Regards,

Lijuan

[Quoted text hidden]



**H12527.png**  
114K

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**Erin Weller - NOAA Federal** <erin.weller@noaa.gov>

Mon, Jun 9, 2014 at 9:54 AM

To: Lijuan Huang - NOAA Affiliate <lijuan.huang@noaa.gov>

Cc: Gerald Hovis - NOAA Federal <gerald.hovis@noaa.gov>, "\_NOS.CO-OPS.HTP"

<NOS.COOPS.HPT@noaa.gov>, Allison Stone - NOAA Federal <allison.c.stone@noaa.gov>, Castle Parker - NOAA Federal <castle.e.parker@noaa.gov>

Thank you, Lijuan

Erin C. Weller  
Physical Scientist  
NOAA's National Ocean Service  
Office of Coast Survey, Hydrographic Surveys Division  
Atlantic Hydrographic Branch  
[757.441.6746](tel:757.441.6746)

[Quoted text hidden]



Megan Guberski - NOAA Federal <megan.guberski@noaa.gov>

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## Data Deliverable for H12525

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**Megan Guberski - NOAA Federal** <megan.guberski@noaa.gov>

Mon, Mar 17, 2014 at 9:32 AM

To: Castle Parker - NOAA Federal <castle.e.parker@noaa.gov>

Cc: Abigail Higgins - NOAA Federal <abigail.higgins@noaa.gov>, Allison Stone - NOAA Federal <allison.c.stone@noaa.gov>

Mr. Parker,

This email is to inform the Atlantic Hydrographic Branch that survey H12525, under project OPR-B310-TJ-13, is being submitted without raw POS data or backscatter .7k files. The data was submitted to NGDC in August 2013, then deleted from the Thomas Jefferson's servers.

A copy of this correspondence will be placed in Appendix II of the Descriptive Report. Please let me know if you have any questions or concerns.

Very Respectfully,  
LT Guberski

--

LT Megan Guberski, NOAA  
Operations Officer, NOAA Ship *Thomas Jefferson*  
439 W. York Street  
Norfolk, VA 23510  
cell: [757 647-0187](tel:7576470187)  
land: [757 451-6322](tel:7574516322)

## Castle Parker - NOAA Federal

---

**From:** Megan Guberski - NOAA Federal  
**Sent:** Monday, September 15, 2014 5:29 AM  
**To:** Castle Parker - NOAA Federal  
**Cc:** Peter Lewit - NOAA Federal; Matthew Jaskoski - NOAA Federal  
**Subject:** Re: Coast Pilot Report for Project OPR-D332-TJ-13

Hello Gene,

I have carefully interviewed all the suspects, and I've concluded that the Coast Pilot Report was never created for OPR-D332-TJ-13. I suspect all the sheet managers figured someone else submitted the report. Obviously my mistake as the data manager. I will improve my attentiveness regarding Coast Pilot Reports.

Megan

On Thu, Sep 11, 2014 at 9:57 AM, Castle Parker - NOAA Federal <[castle.e.parker@noaa.gov](mailto:castle.e.parker@noaa.gov)> wrote:

Hello Megan and Pete,

I'm reviewing surveys from project OPR-D332-TJ-13 and can't find any submission of the Coast Pilot Report. The directory where the document should reside contains circular references. SAR comment for H12572: *"Coast Pilot Report was not submitted as documented; CP report was documented in a READ ME file as being submitted with survey H12568; H12568 indicates that CP report was submitted with H12569; H12569 indicates the report was submitted with H12568. Appears that this report was not submitted and the reference is circular."*

Was this report completed and where might I find it? We are being more attentive to the CP report as HSD is aware that Update Services Branch is not receiving the required deliverables. Please see if the document still resides on the ship.

Thanks.

Regards,

Gene

--

LT Megan Guberski, NOAA  
Operations Officer, NOAA Ship *Thomas Jefferson*  
439 W. York Street  
Norfolk, VA 23510  
cell: 757 647-0187  
land: 757 451-6322

## APPENDIX III

### SURVEY FEATURES REPORT

DToNs - One

AWOIS - Ten

Wrecks - None

Maritime Boundaries - none



# H12525 DtoN 2 12ft Wreck

**Registry Number:** H12525  
**State:** New York  
**Locality:** New York  
**Sub-locality:** South of Long Beach  
**Project Number:** OPR-B310-TJ-13  
**Survey Date:** 06/13/2013

## Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
12352	34th	09/01/2012	1:20,000 (12352_5)	USCG LNM: 3/18/2014 (4/1/2014) CHS NTM: None (3/28/2014) NGA NTM: None (4/12/2014)
12352	32nd	12/01/2007	1:20,000 (12352_6)	[L]NTM: ?
12326	50th	05/01/2006	1:80,000 (12326_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	12ft Wreck	Wreck	3.87 m	40° 34' 55.4" N	073° 36' 52.0" W	---

## 1.1) 12ft dangerous sunken wreck

### DANGER TO NAVIGATION

#### Survey Summary

**Survey Position:** 40° 34' 55.4" N, 073° 36' 52.0" W  
**Least Depth:** 3.87 m (= 12.70 ft = 2.117 fm = 2 fm 0.70 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2013-164.00:00:00.000 (06/13/2013)  
**Dataset:** H12525 12ft OBSTRN DtoN 2.000  
**FOID:** 0\_ 0001936576 00001(FFFE001D8CC00001)  
**Charts Affected:** 12352\_5, 12352\_6, 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1

#### Remarks:

OBSTRN/remrks: Obstruction found using 200% side scan and Object Detect Multibeam. Soundings reduced to MLLW via ellipsoid heights and VDataum separation model.

#### Feature Correlation

Source	Feature	Range	Azimuth	Status
H12525 12ft OBSTRN DtoN 2.000	0_ 0001936576 00001	0.00	000.0	Primary

#### Hydrographer Recommendations

Chart obstruction.

#### Cartographically-Rounded Depth (Affected Charts):

12ft (12352\_5, 12352\_6, 12326\_1)

2fm (12300\_1, 13006\_1, 13003\_1)

3.8m (5161\_1)

#### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** EXPSOU - 2:shoaler than range of depth of the surrounding depth area  
 QUASOU - 6:least depth known  
 SORDAT - 20130613

SORIND - US,US,graph,H12525

TECSOU - 2,3:found by side scan sonar,found by multi-beam

VALSOU - 3.872 m

WATLEV - 3:always under water/submerged

## Office Notes

SAR: New Obstn found in SSS and ODMB. Chart as surveyed.

COMPILATION: Concur with conditions. This feature was submitted during present survey operations as DTON #2, an obstruction but was charted as a dangerous sunken wreck, least depth 12 feet in Latitude 40-34-55.403N Longitude 73-36-52.000W on the latest edition of Chart 12352\_5 and as an obstruction on the latest ENC US5NY53M . The object imagery can be interpreted as a wreck. It is recommended the feature is deleted from the charts and updated as a dangerous sunken wreck, least depth 12 feet in the present survey position.

## Feature Images

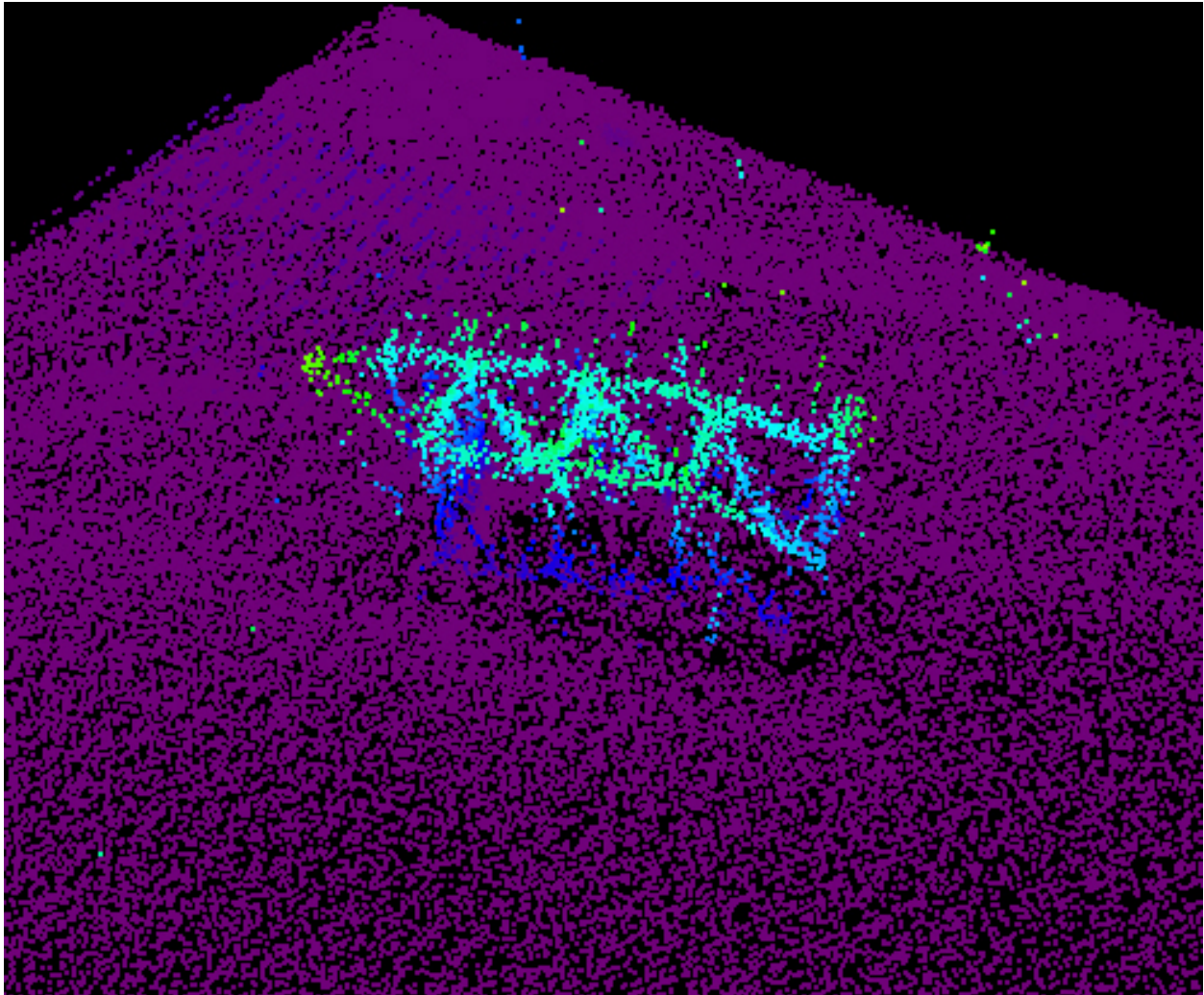


Figure 1.1.1

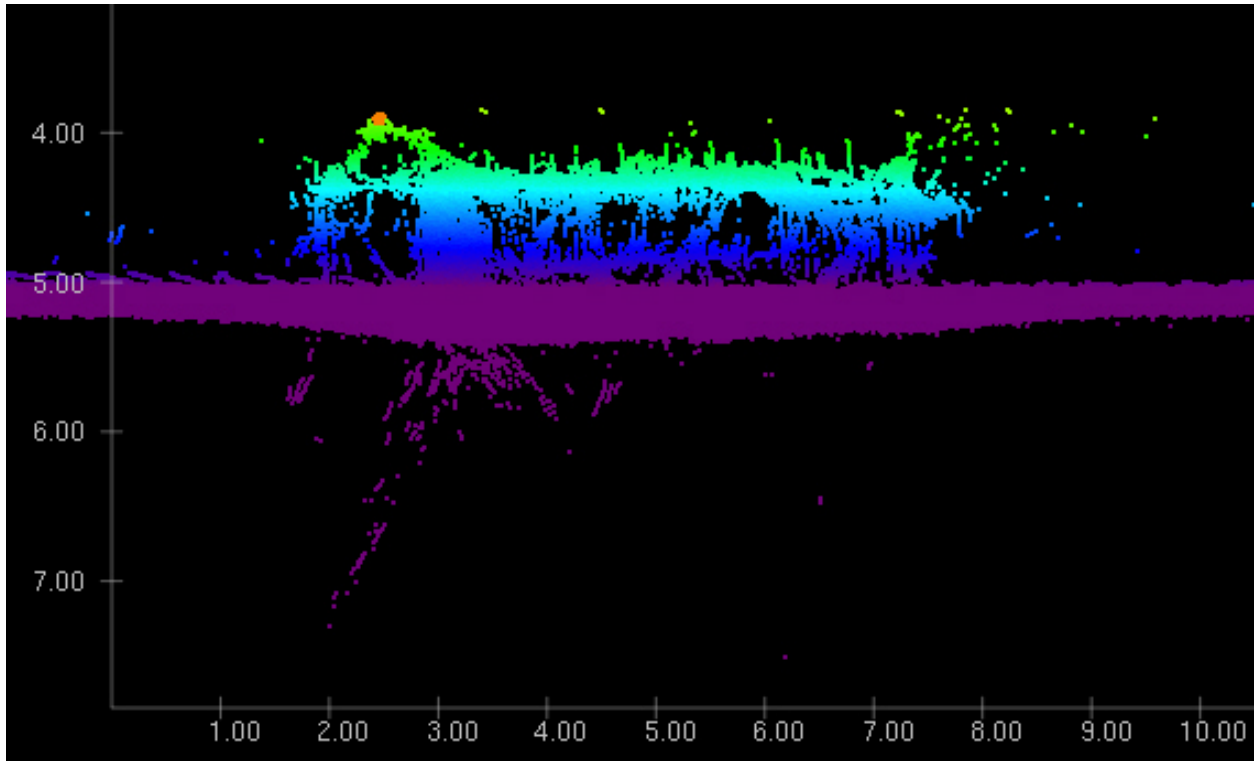


Figure 1.1.2

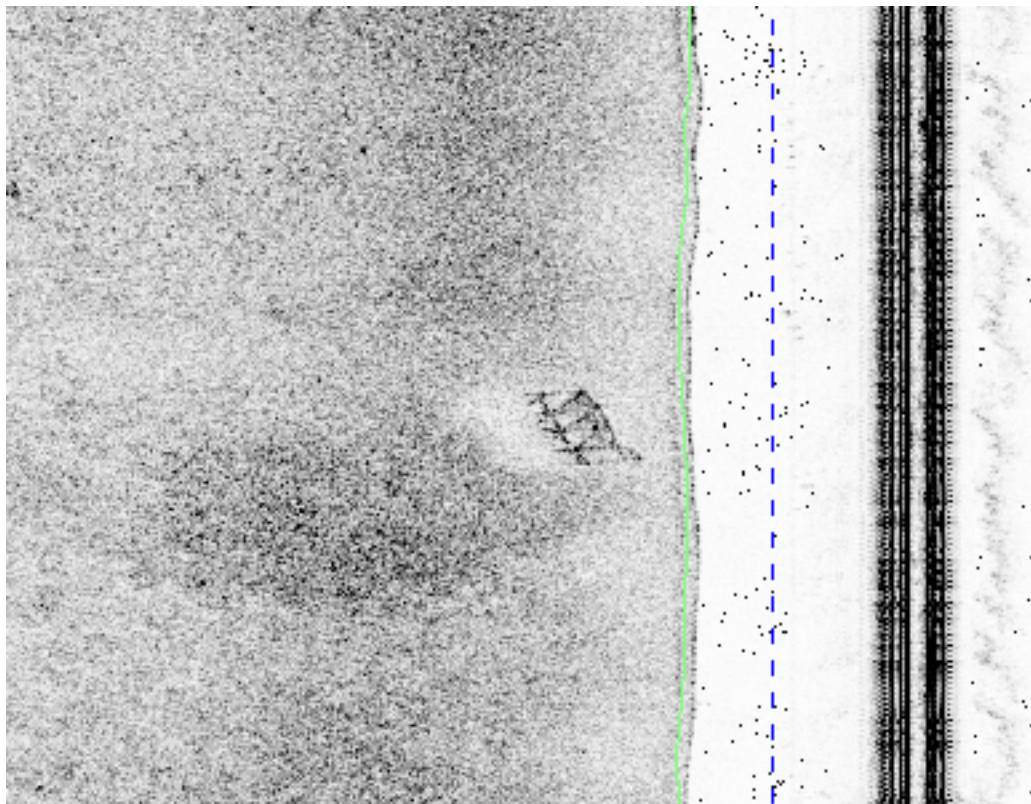


Figure 1.1.3

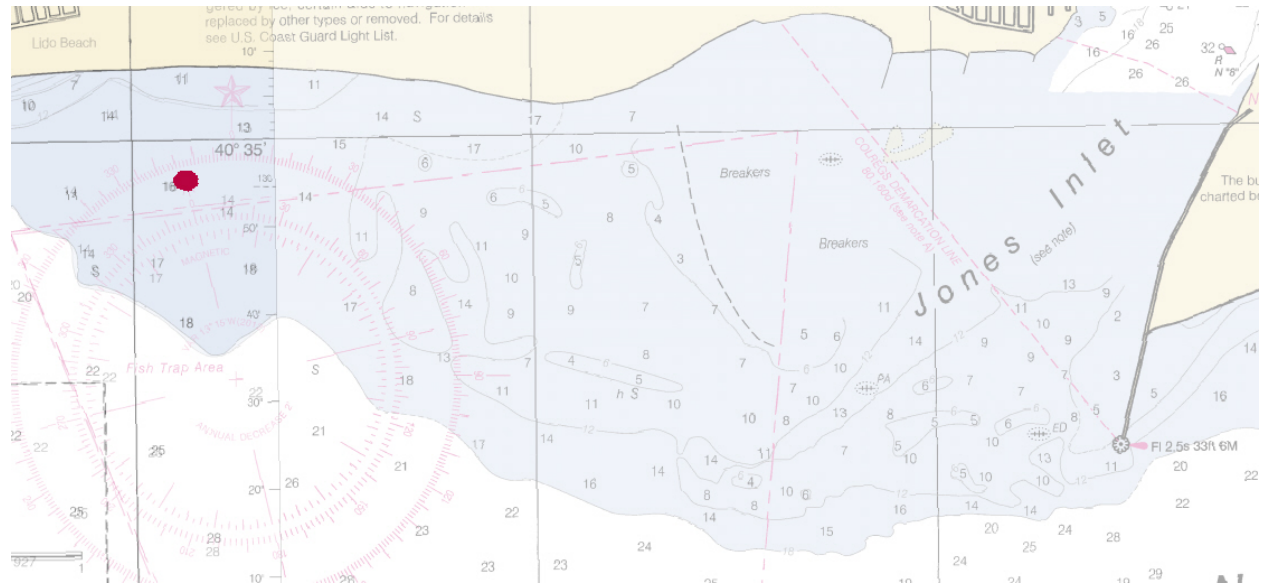


Figure 1.1.4



# H12525 AWOIS Items

**Registry Number: H12525**

**State: New York**

**Locality: New York, NY**

**Sub-locality: South of Long Beach, NY**

**Project Number: OPR-B310-TJ-13**

**Survey Dates: 05/19/2013 to 06/13/2013**

## Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
12352	32nd	12/01/2007	1:20,000 (12352_6)	[L]NTM: ?
12326	50th	05/01/2006	1:80,000 (12326_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 14906	Wreck	15.87 m	40° 31' 36.2" N	073° 43' 45.6" W	
1.2	AWOIS 7788	GP	[None]	40° 31' 41.8" N	073° 43' 44.1" W	7788
1.3	AWOIS 13253	GP	[None]	40° 33' 59.4" N	073° 43' 40.1" W	13253
1.4	AWOIS 7794	GP	[None]	40° 31' 50.7" N	073° 43' 18.2" W	7794
1.5	AWOIS 7811	Wreck	13.65 m	40° 32' 11.8" N	073° 43' 03.6" W	7811
1.6	AWOIS 7803	Obstruction	12.24 m	40° 31' 36.6" N	073° 42' 47.7" W	7803
1.7	AWOIS 7795_OLD LOCATION	GP	[None]	40° 32' 16.3" N	073° 43' 01.5" W	7795
1.8	AWOIS 7795_NEW LOCATION	Wreck	13.76 m	40° 32' 09.6" N	073° 42' 57.0" W	7795
1.9	AWOIS 7707	Wreck	11.36 m	40° 32' 09.7" N	073° 41' 17.7" W	7707
1.10	AWOIS 13254	GP	[None]	40° 32' 23.9" N	073° 40' 24.0" W	13254
1.11	AWOIS 13251	Obstruction	12.10 m	40° 32' 05.7" N	073° 39' 42.5" W	13251

## 1.1) AWOIS 14906

### Feature for AWOIS Item #14906

**Search Position:** 40° 31' 36.2" N, 073° 43' 45.6" W

**Historical Depth:** 15.87 m

**Search Radius:** [unknown]

**Search Technique:** [unknown]

**Technique Notes:**

**History Notes:**H12158(2009)--Cartographer recommends charting a dangerous wreck with least depth 52 ft at survey position at Latitude 40-31-36.1967, Longitude 073-43-45.5318. The wreck is approx. 22ft in length and detected utilizing full coverage MB (entered 4/4/11 by RSM).

### Survey Summary

**Survey Position:** 40° 31' 36.2" N, 073° 43' 45.6" W

**Least Depth:** 15.87 m (= 52.07 ft = 8.678 fm = 8 fm 4.07 ft)

**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)** [None] ; **TVU (TPEv)** [None]

**Timestamp:** 2013-164.00:00:00.000 (06/13/2013)

**Dataset:** H12525\_AWOIS\_2.000

**FOID:** 0\_0002671076 00001(FFFE0028C1E40001)

**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1

**Remarks:**

WRECKS/remrks: Wreck confirmed using 200% SSS and ODMB. Soundings reduced to MLLW via ellipsoid heights and VDatum separation model.

### Feature Correlation

Source	Feature	Range	Azimuth	Status
H12525_AWOIS_2.000	0_0002671076 00001	0.00	000.0	Primary

### Hydrographer Recommendations

Update AWOIS database with new position.

**Cartographically-Rounded Depth (Affected Charts):**

52ft (12326\_1)

8 ½fm (12300\_1, 13006\_1, 13003\_1)

15.8m (5161\_1)

### S-57 Data

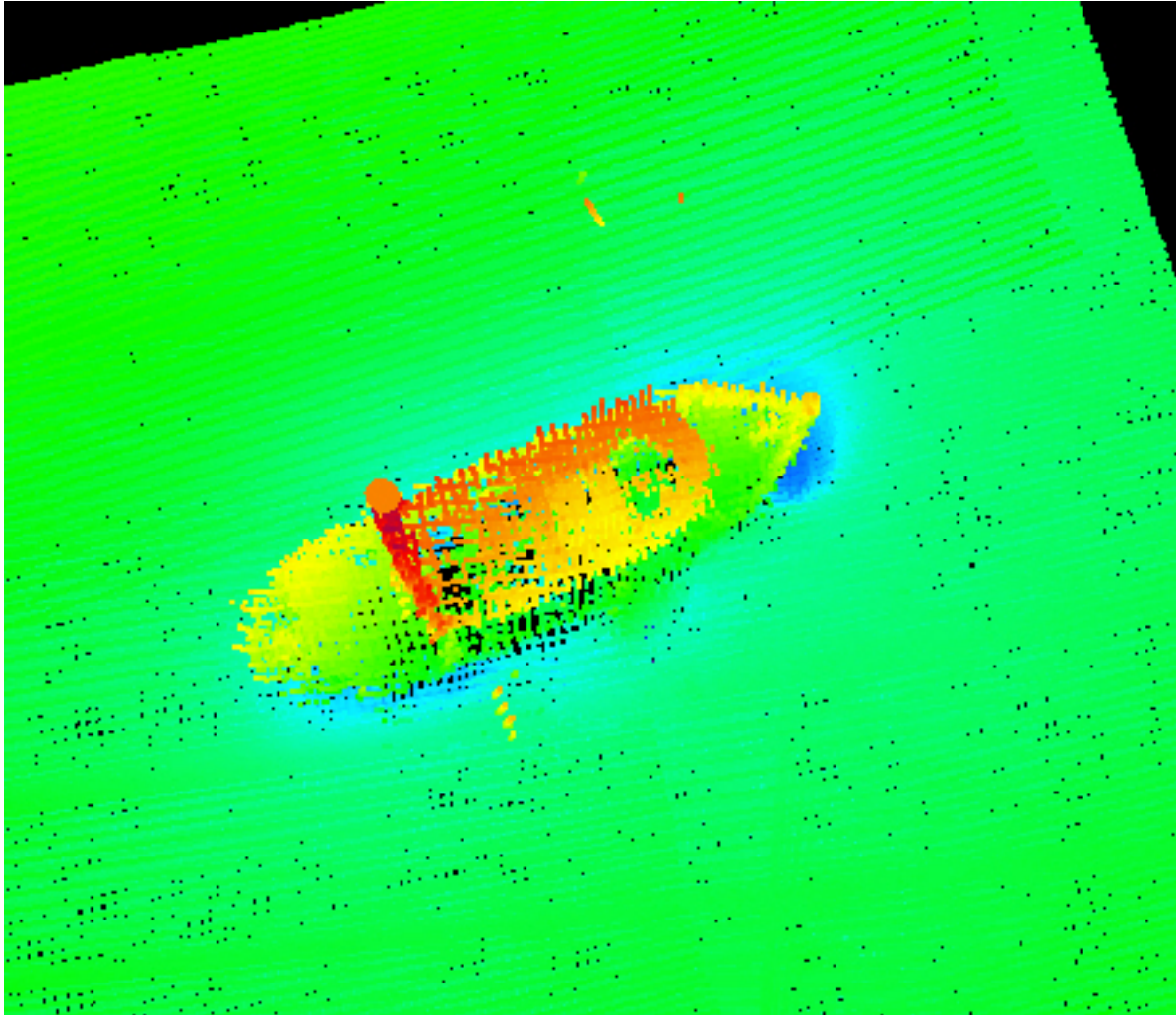
**Geo object 1:** Wreck (WRECKS)  
**Attributes:** CATWRK - 2:dangerous wreck  
CONVIS - 2:not visual conspicuous  
EXPSOU - 1:within the range of depth of the surrounding depth area  
NINFOM - Add wreck  
QUASOU - 6:least depth known  
SORDAT - 20130613  
SORIND - US,US,graph,H12525  
TECSOU - 3:found by multi-beam  
VALSOU - 15.870 m  
WATLEV - 3:always under water/submerged

### Office Notes

SAR: Wreck confirmed per survey data.

COMPILATION: Concur. Delete charted dangerous sunken wreck, least depth 52 feet. Add dangerous sunken wreck, least depth 52 feet, in the present survey position. Update AWOIS database for AWOIS Item 14906 with present survey findings.

## Feature Images



*Figure 1.1.1*

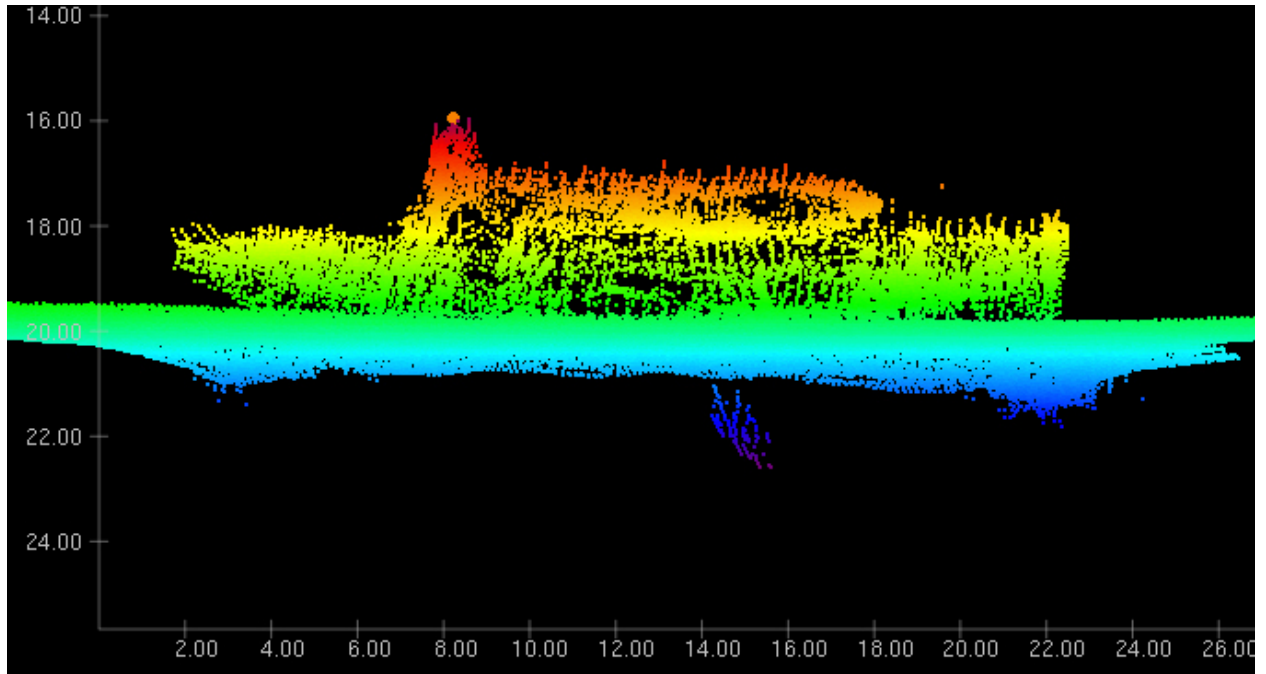
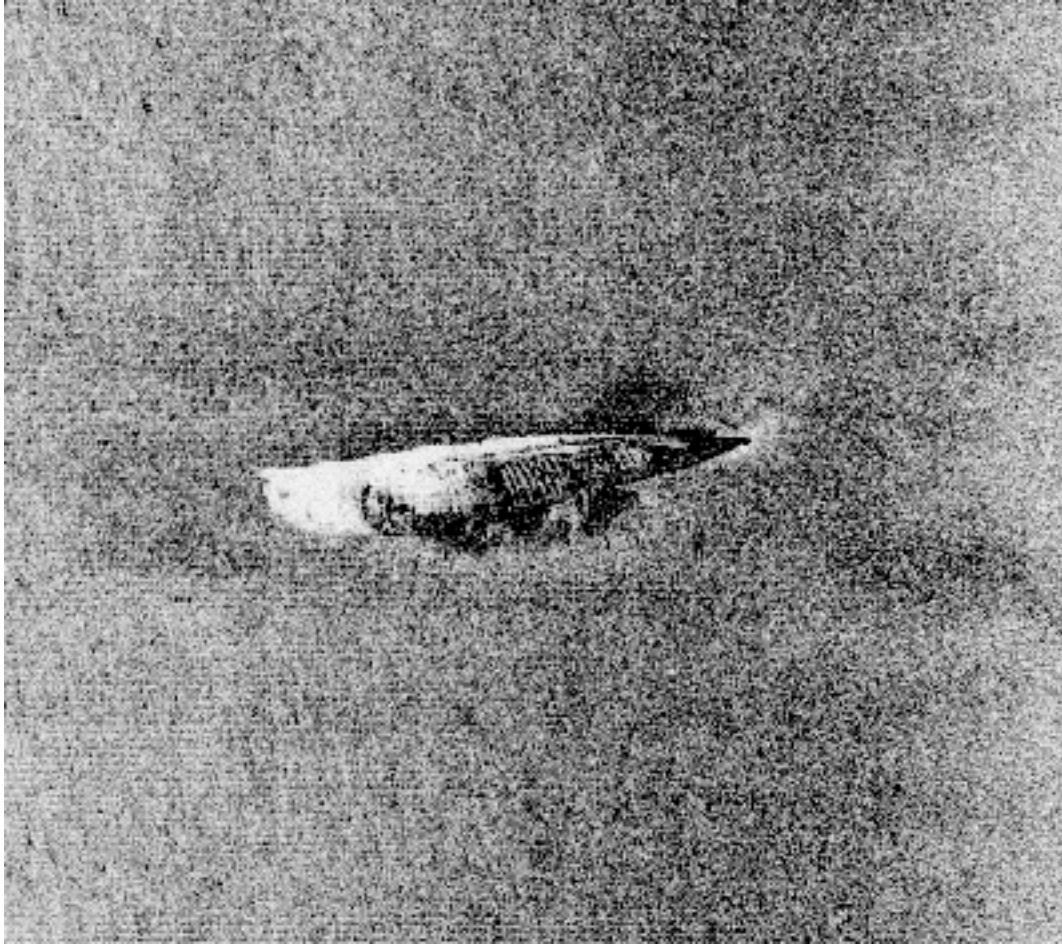


Figure 1.1.2



*Figure 1.1.3*



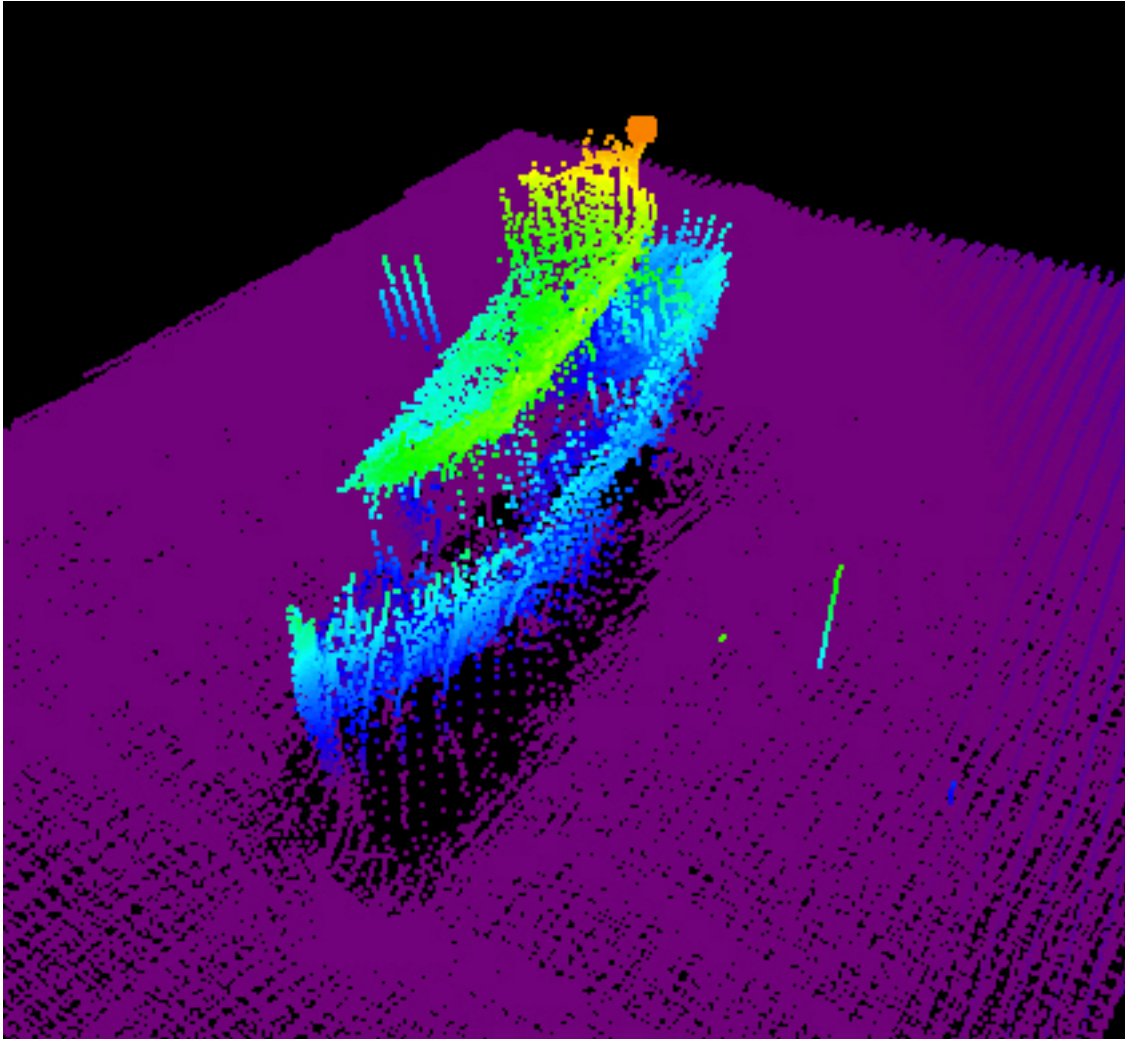


Figure 1.1.4

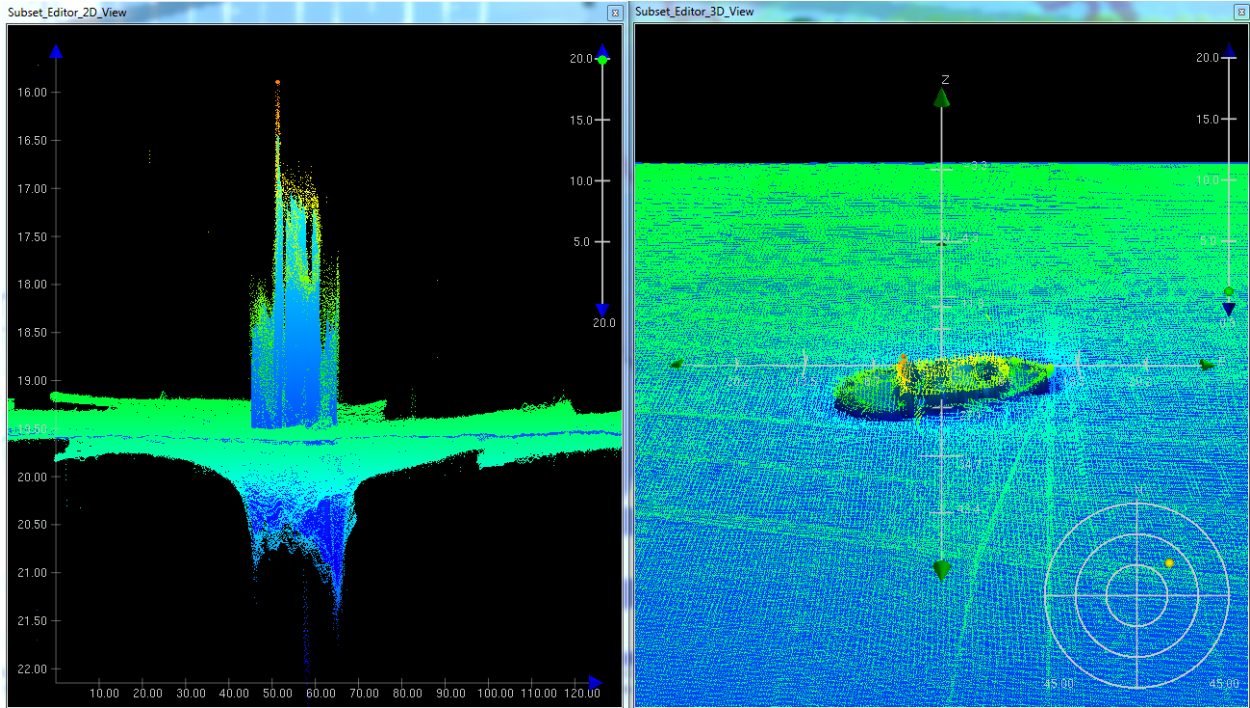


Figure 1.1.5

## 1.2) AWOIS 7788

### Feature for AWOIS Item #7788

**Search Position:** 40° 31' 41.8" N, 073° 43' 44.1" W  
**Historical Depth:** [None]  
**Search Radius:** [unknown]  
**Search Technique:** Type: FRAN S, Itemstatus: COMPLETED, Searchtype: INFORMATION, Technique:  
**Technique Notes:**

**History Notes:** NONE

### Survey Summary

**Survey Position:** 40° 31' 41.8" N, 073° 43' 44.1" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2013-164.00:00:00.000 (06/13/2013)  
**Dataset:** H12525\_AWOIS\_2.000  
**FOID:** 0\_ 0002978095 00001(FFFE002D712F0001)  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1

**Remarks:**

\$CSYMB/remrks: Wreck of the Fran S. disproven using 200% SSS and ODBM.

\$CSYMB/invreq: Type: FRAN S, Itemstatus: COMPLETED, Searchtype: INFORMATION, Technique:

### Feature Correlation

Source	Feature	Range	Azimuth	Status
H12525_AWOIS_2.000	0_ 0002978095 00001	0.00	000.0	Primary

### Hydrographer Recommendations

Delete

## S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - No changes to charting  
NTXTDS - ENCUS4NY1AM, Edition27, 20130919  
SORDAT - 20130613  
SORIND - US, US, graph, H12525

## Office Notes

SAR: Wreck not located at this location. Refer to charted wreck (52 ft) located approximately 176m to the SSW of this location. Defer to AHB Compiler.

COMPILATION: Concur. No wreck located at this position. Wreck not presently charted. No changes to charting. Update AWOIS database for AWOIS item 7788 with present survey findings. Consider Item disproved.

### 1.3) AWOIS 13253

#### Feature for AWOIS Item #13253

**Search Position:** 40° 33' 59.4" N, 073° 43' 40.1" W  
**Historical Depth:** [None]  
**Search Radius:** 250  
**Search Technique:** Type: UNKNOWN, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: MB S2  
**Technique Notes:**

**History Notes:** LNM 16/87 -- SUNKEN FISHING VESSEL REPORTED APPROX POSITION 40/33/59N 73/43/42W (ENT 05/25/05 SME)

#### Survey Summary

**Survey Position:** 40° 33' 59.4" N, 073° 43' 40.1" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2013-164.00:00:00.000 (06/13/2013)  
**Dataset:** H12525\_AWOIS\_2.000  
**FOID:** 0\_0002466766 00001(FFFE0025A3CE0001)  
**Charts Affected:** 12352\_6, 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1

**Remarks:**

\$CSYMB/remrks: Wreck confirmed using 200% SSS and ODMB. Soundings reduced to MLLW via ellipsoid heights and VDatum seperation model.

\$CSYMB/invreq: Type: UNKNOWN, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: MB S2

#### Feature Correlation

Source	Feature	Range	Azimuth	Status
H12525_AWOIS_2.000	0_0002466766 00001	0.00	000.0	Primary

#### Hydrographer Recommendations

Update AWOIS database with new position.

## S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - Delete wreck  
NTXTDS - ENC#US5NY53M, Edition 12, 20141016  
SORDAT - 20130613  
SORIND - US, US, graph, H12525

## Office Notes

SAR: Update AWOIS database with survey results. Wreck not located and considered as disproved.

COMPILATION: Concur. Delete dangerous sunken wreck PA, least depth unknown, AWOIS 13253. Consider AWOIS 13253, disproved by present survey. Update AWOIS database for AWOIS item 13253 based on present survey findings.



## 1.4) AWOIS 7794

### Feature for AWOIS Item #7794

**Search Position:** 40° 31' 50.7" N, 073° 43' 18.2" W

**Historical Depth:** [None]

**Search Radius:** [unknown]

**Search Technique:** [unknown]

**Technique Notes:**

**History Notes:** DESCRIPTION 195 LORAN C RATES PROVIDED BY MR. RICHARD TARACKA, GREENWICH, CT. POLICE DEPARTMENT, TEL NO 203-622-8020; IDENTIFIED AS A BARGE; 9960-X 26870.4, 9960-Y 43734.7; LAT 40-31-50.68N, LONG 73-43-18.23W (COMPUTED FROM LORAN RATES). (ENTERED MSM 7/90)

### Survey Summary

**Survey Position:** 40° 31' 50.7" N, 073° 43' 18.2" W

**Least Depth:** [None]

**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]

**Timestamp:** 2013-164.00:00:00.000 (06/13/2013)

**Dataset:** H12525\_AWOIS\_2.000

**FOID:** 0\_0002671091 00001(FFFE0028C1F30001)

**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1

**Remarks:**

\$CSYMB/remrks: Fish haven surveyed to ODMB specifications. Soundings reduced to MLLW via ellipsoid heights and VDatum separation model.

AWOIS item 7803 is associated with a charted fish haven, minimum authorized depth of 40ft. No obstructions or wrecks shoal of 40ft were located within fish haven area.

\$CSYMB/invreq: Type: WRECK, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: MBES S2

### Feature Correlation

Source	Feature	Range	Azimuth	Status
H12525_AWOIS_2.000	0_0002671091 00001	0.00	000.0	Primary

## Hydrographer Recommendations

Retain charted fish haven extents and authorized minimum. Update AWOIS database with position of shoalest depth.

### S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - No changes to charting  
NTXTDS - ENC#US4NY1AM, Edition27, 20130919  
SORDAT - 20130613  
SORIND - US,US,graph,H12525

### Office Notes

SAR: Fish Haven in the SW corner verified and does not exceed minimum charted depth. Retain as charted.

SAR: AWOIS 7803 point feature within fish haven. All features within the fish haven are deeper than 40 ft as charted. Defer to final charting disposition to AHB Compiler.

COMPILATION: Concur with conditions. AWOIS 7794 is actually a feature within the charted Fish Haven limits. AWOIS 7803 is the actual Fish Haven. Individual features are not presently charted within Fish Havens unless they are shoaler than the controlling depth. No indication of anything shoaler than the controlling depth inside the fish haven limits. Consider AWOIS 7794 disproved as it is insignificant as a seperate item from the charted fish haven. Update AWOIS database for AWOIS item 7794 based on present survey findings

## 1.5) AWOIS 7811

### Feature for AWOIS Item #7811

**Search Position:** 40° 32' 11.8" N, 073° 43' 03.6" W  
**Historical Depth:** 13.65 m  
**Search Radius:** 300  
**Search Technique:** Type: BILLY B., Itemstatus: ASSIGNED, Searchtype: FULL, Technique: MBES S2  
**Technique Notes:**

**History Notes:** DESCRIPTION 195 LORAN C RATES PROVIDED BY MR. RICHARD TARACKA GREENWICH CT. POLICE DEPARTMENT TEL NO 203-622-8020; IDENTIFIED AS BILLY B. OR A BARGE; 9960-X 26869.5 9960-Y 43738.5; LAT 40-32-15.89N LONG 73-43-02.98W (NAD27 POSITION COMPUTED FROM LORAN RATES). (ENTERED MSM 7/90)

### Survey Summary

**Survey Position:** 40° 32' 11.8" N, 073° 43' 03.6" W  
**Least Depth:** 13.65 m (= 44.79 ft = 7.465 fm = 7 fm 2.79 ft)  
**TPU (±1.96σ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2013-164.00:00:00.000 (06/13/2013)  
**Dataset:** H12525\_AWOIS\_2.000  
**FOID:** 0\_ 0002671044 00001(FFFE0028C1C40001)  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1

**Remarks:**

WRECKS/remrks: Wreck is one of two, found within the search radius of AWOIS 7811. Found using 200% SSS and ODMB. Soundings reduced to MLLW via ellipsoid heights and VDataum separation model.

### Feature Correlation

Source	Feature	Range	Azimuth	Status
H12525_AWOIS_2.000	0_ 0002671044 00001	0.00	000.0	Primary

### Hydrographer Recommendations

Chart wreck over least depth.

**Cartographically-Rounded Depth (Affected Charts):**

45ft (12326\_1)

7 ½fm (12300\_1, 13006\_1, 13003\_1)

13.6m (5161\_1)

## S-57 Data

**Geo object 1:** Wreck (WRECKS)  
**Attributes:** CATWRK - 2:dangerous wreck  
CONVIS - 2:not visual conspicuous  
EXPSOU - 2:shoaler than range of depth of the surrounding depth area  
NINFOM - Add wreck  
QUASOU - 6:least depth known  
SORDAT - 20130613  
SORIND - US,US,graph,H12525  
TECSOU - 2,3:found by side scan sonar,found by multi-beam  
VALSOU - 13.652 m  
WATLEV - 3:always under water/submerged

## Office Notes

SAR: 45ft Wreck verified with MB and SS data. This feature is one of two wrecks located within the radius of AWOIS 7811 approximately 169m apart.

COMPILATION: Concur. Add dangerous sunken wreck, least depth 45 feet, at present survey position. Update AWOIS database for AWOIS item 7811 with present survey findings.

### Feature Images

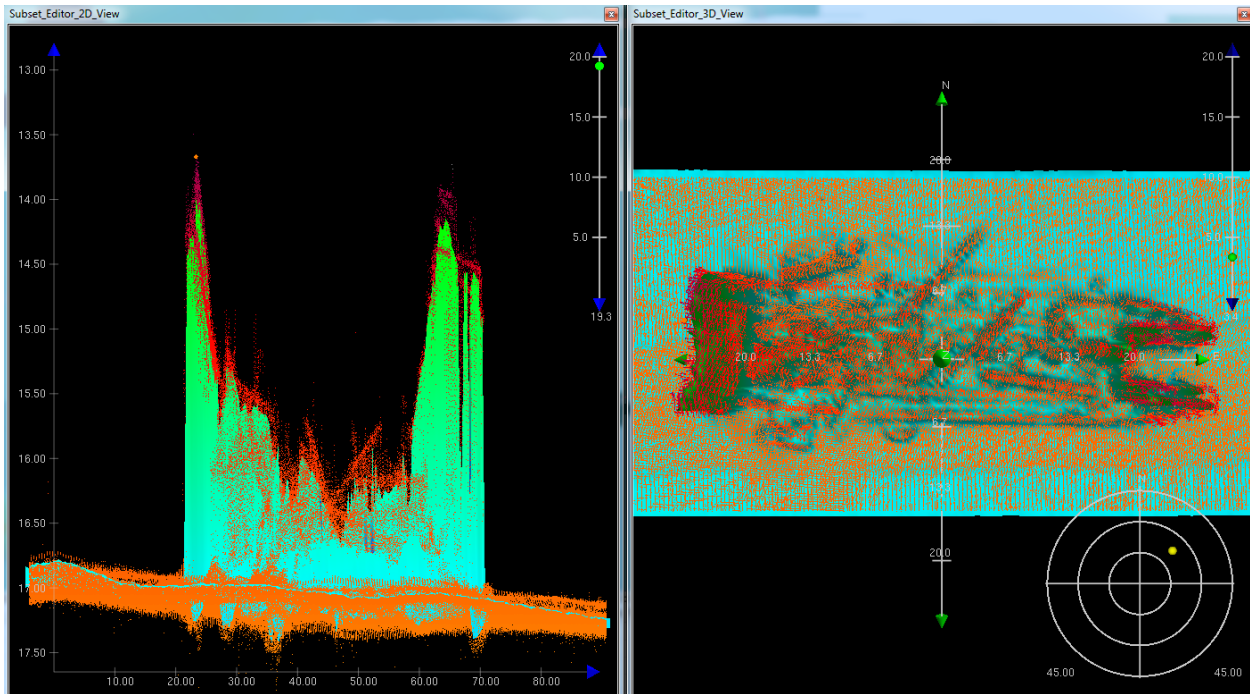


Figure 1.5.1

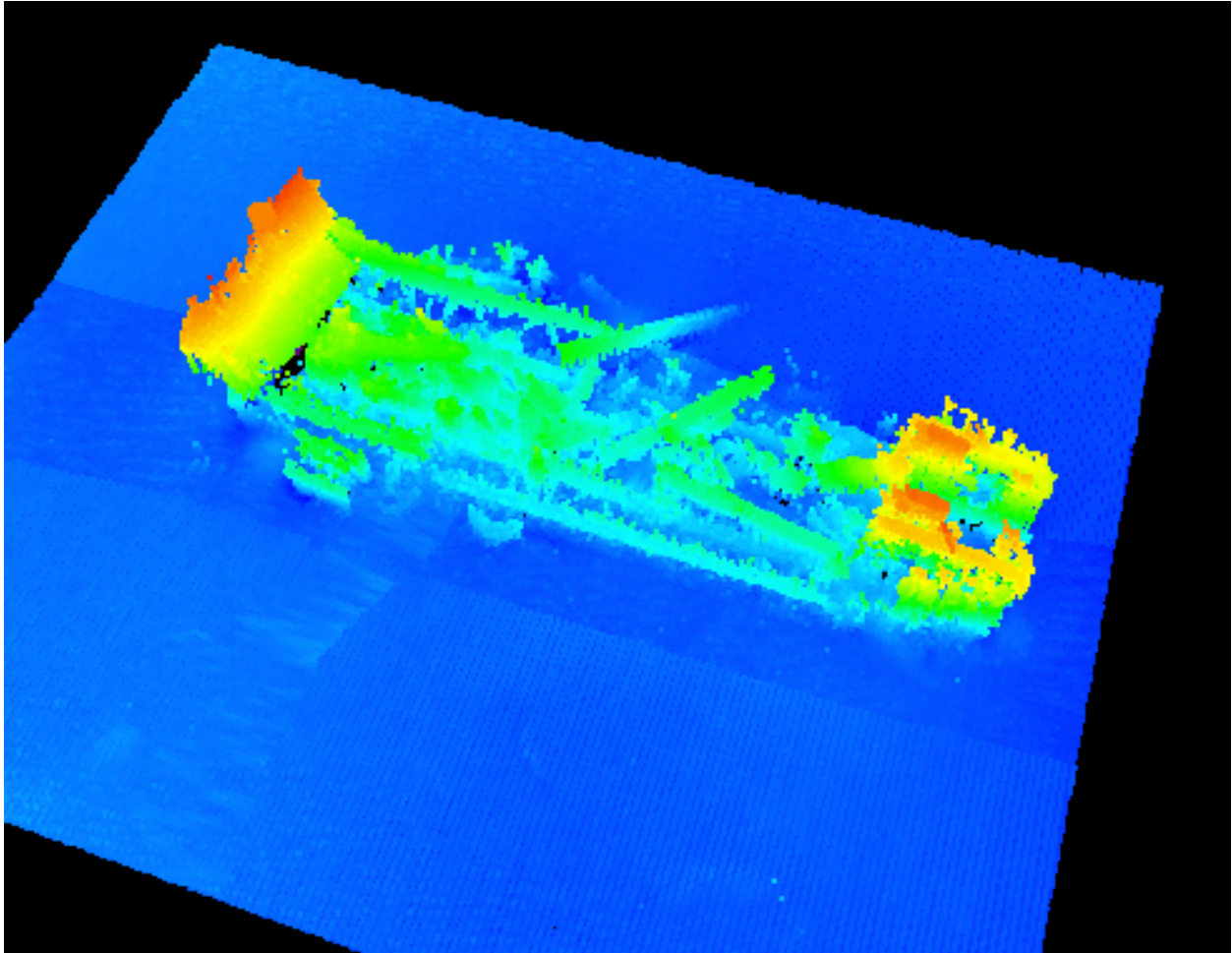


Figure 1.5.2

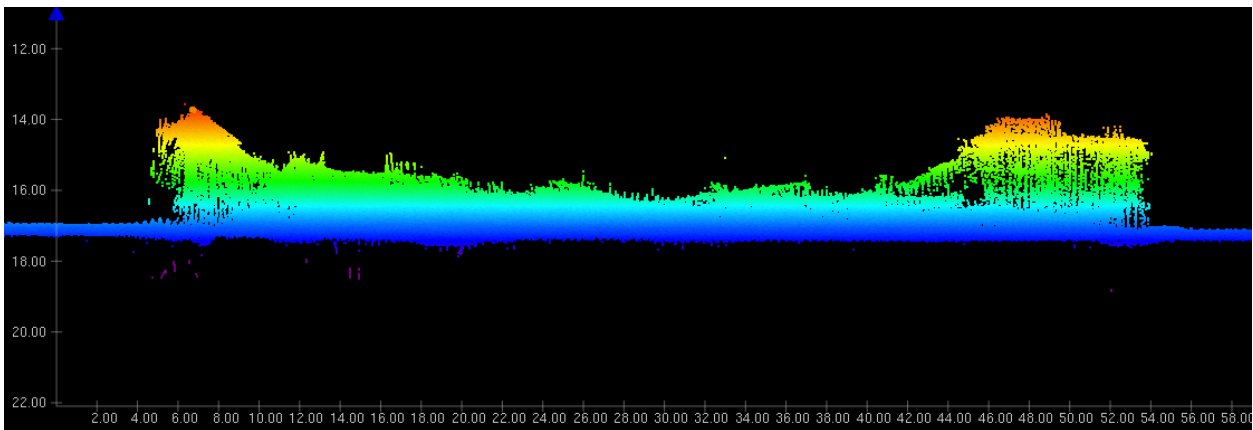
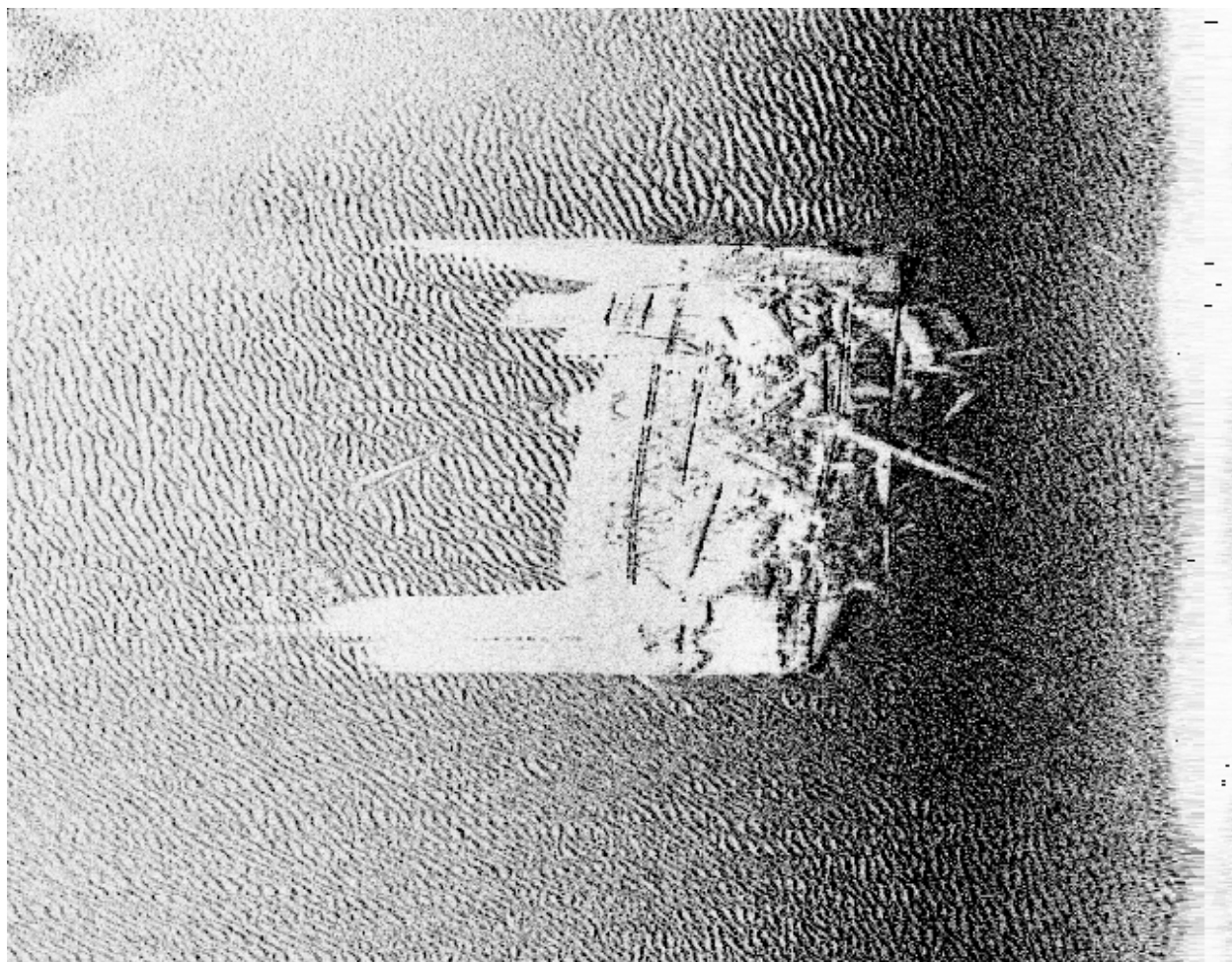


Figure 1.5.3





*Figure 1.5.4*

**1.6) 0\_ 0002466805 00001**

**Feature for AWOIS Item #7803**

**Search Position:** 40° 31' 36.6" N, 073° 42' 47.7" W

**Historical Depth:** 12.24 m

**Search Radius:** [unknown]

**Search Technique:** [unknown]

**Technique Notes:**

**History Notes:** NOS CHART 12326 (5TH ED, 4/2009) -- CHARTED FISH HAVEN WITH AUTHORIZED MIN DEPTH OF 40 FT. SHOALER DEPTHS WERE REPORTED IN 2001. (ENTERED LAH 1/10/2013)

**Survey Summary**

**Survey Position:** 40° 31' 36.6" N, 073° 42' 47.7" W

**Least Depth:** 12.24 m (= 40.17 ft = 6.696 fm = 6 fm 4.17 ft)

**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]

**Timestamp:** 2001-142.00:00:00.000 (05/22/2001)

**Dataset:** H12525\_AWOIS\_2.000

**FOID:** 0\_ 0002466805 00001(FFFE0025A3F50001)

**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1

**Remarks:**

OBSTRN/remrks: Fish haven surveyed to ODMB specifications. Soundings reduced to MLLW via ellipsoid heights and VDatum separation model.

AWOIS item 7803 is associated with a charted fish haven, minimum authorized depth of 40ft. No obstructions or wrecks shoal of 40ft were located within fish haven area.

**Feature Correlation**

Source	Feature	Range	Azimuth	Status
H12525_AWOIS_2.000	0_ 0002466805 00001	0.00	000.0	Primary

## Hydrographer Recommendations

Retain as charted. Retain charted fish haven extents and authorized minimum. Update AWOIS database with position of shoalest depth.

### Cartographically-Rounded Depth (Affected Charts):

40ft (12326\_1)

6 ¾fm (12300\_1, 13006\_1, 13003\_1)

12.2m (5161\_1)

## S-57 Data

**Geo object 1:** Obstruction (OBSTRN)

**Attributes:** CATOBS - 5:fish haven

EXPSOU - 1:within the range of depth of the surrounding depth area

INFORM - Surveyed depths do not exceed charted minimum depth of 40ft.

NINFOM - Retain obstruction

QUASOU - 7:least depth unknown, safe clearance at value shown

SORDAT - 20010522

SORIND - US,US,reprt,1stCGD,LNM 21/01

TECSOU - 3:found by multi-beam

VALSOU - 12.245 m

WATLEV - 3:always under water/submerged

## Office Notes

SAR: Fish Haven in the SW corner verified and does not exceed minimum charted depth. Retain as charted.

SAR: AWOIS 7803 point feature within fish haven. All features within the fish haven are deeper than 40 ft as charted. Defer to final charting disposition to AHB Compiler.

COMPILATION: Concur with conditions. AWOIS 7803 is the actual charted Fish Haven and its limits. There is no indication of anything shoaler than the controlling depth inside the fish haven limits. Update the database for AWOIS 7803. Retain as charted.

## 1.7) AWOIS 7795\_OLD LOCATION

### Feature for AWOIS Item #7795

**Search Position:** 40° 32' 16.3" N, 073° 43' 01.5" W

**Historical Depth:** [None]

**Search Radius:** [unknown]

**Search Technique:** [unknown]

**Technique Notes:**

**History Notes:** DESCRIPTION 195 LORAN C RATES PROVIDED BY MR. RICHARD TARACKA, GREENWICH, CT. POLICE DEPARTMENT, TEL NO 203-622-8020; IDENTIFIED AS A BARGE; 9960-X 26869.5, 9960-Y 43738.5; LAT 40-32-15.89N, LONG 73-43-02.98W (COMPUTED FROM LORAN RATES). (ENTERED MSM 7/90)

### Survey Summary

**Survey Position:** 40° 32' 16.3" N, 073° 43' 01.5" W

**Least Depth:** [None]

**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]

**Timestamp:** 2013-164.00:00:00.000 (06/13/2013)

**Dataset:** H12525\_AWOIS\_2.000

**FOID:** 0\_0002671078 00001(FFFE0028C1E60001)

**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1

**Remarks:**

\$CSYMB/remrks: Unknown, uncharted wreck disproven using 200% SSS and ODBM.

\$CSYMB/invreq: Record: 7795

Vesselterms:: UNKNOWN

Type: Wreck - Submerged, dangerous to surface navigation

### Feature Correlation

Source	Feature	Range	Azimuth	Status
H12525_AWOIS_2.000	0_0002671078 00001	0.00	000.0	Primary

### Hydrographer Recommendations

Delete

## S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - No changes to charting  
NTXTDS - ENC#US4NY1AM, Edition27, 20130919  
SORDAT - 20130613  
SORIND - US,US,graph,H12525

## Office Notes

SAR: Wreck not located at this location. See two wrecks located to the south.

COMPILATION: Concur. No wreck located at this position. Wreck not presently charted. No changes to charting. Consider AWOIS 7795 disproven in this position. Update AWOIS database for AWOIS item 7795 with present survey findings.

## 1.8) AWOIS 7795\_NEW LOCATION

### Feature for AWOIS Item #7795

**Search Position:** 40° 32' 09.6" N, 073° 42' 57.0" W

**Historical Depth:** 13.76 m

**Search Radius:** [unknown]

**Search Technique:** [unknown]

**Technique Notes:**

**History Notes:** DESCRIPTION 195 LORAN C RATES PROVIDED BY MR. RICHARD TARACKA, GREENWICH, CT. POLICE DEPARTMENT, TEL NO 203-622-8020; IDENTIFIED AS A BARGE; 9960-X 26869.5, 9960-Y 43738.5; LAT 40-32-15.89N, LONG 73-43-02.98W (COMPUTED FROM LORAN RATES). (ENTERED MSM 7/90)

### Survey Summary

**Survey Position:** 40° 32' 09.6" N, 073° 42' 57.0" W

**Least Depth:** 13.76 m (= 45.13 ft = 7.522 fm = 7 fm 3.13 ft)

**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None]; TVU (TPEv) [None]

**Timestamp:** 2013-164.00:00:00.000 (06/13/2013)

**Dataset:** H12525\_AWOIS\_2.000

**FOID:** 0\_0002671043 00001(FFFE0028C1C30001)

**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1

#### Remarks:

WRECKS/remrks: Wreck is one of two found within the search radius of AWOIS 7811. Found using 200% SSS and ODMB. Soundings reduced to MLLW via ellipsoid heights and VDatum separation model.

### Feature Correlation

Source	Feature	Range	Azimuth	Status
H12525_AWOIS_2.000	0_0002671043 00001	0.00	000.0	Primary

### Hydrographer Recommendations

Retain as uncharted, due to proximity of wreck with shoaler least depth.

#### Cartographically-Rounded Depth (Affected Charts):

45ft (12326\_1)

7 ½fm (12300\_1, 13006\_1, 13003\_1)



13.7m (5161\_1)

## S-57 Data

**Geo object 1:** Wreck (WRECKS)  
**Attributes:** CATWRK - 2:dangerous wreck  
CONVIS - 2:not visual conspicuous  
EXPSOU - 2:shoaler than range of depth of the surrounding depth area  
NINFOM - No charting changes  
QUASOU - 6:least depth known  
SORDAT - 20130613  
SORIND - US,US,graph,H12525  
TECSOU - 2,3:found by side scan sonar,found by multi-beam  
VALSOU - 13.757 m  
WATLEV - 3:always under water/submerged

## Office Notes

SAR: 45ft Wreck verified with MB and SS data. This feature is one of two wrecks located within the radius of AWOIS 7811 approximately 169m apart. This feature is located approximately 55m north of the fish haven limits. Wreck appears to be a barge.

COMPILATION: Concur. This wreck could be the barge associated with AWOIS 7795 rather than AWOIS 7811. It is recommended this item is not charted due to its close proximity to the charted fish haven to the south and the wreck found to the north west. No changes to charting recommended. Update AWOIS database for AWOIS item 7795 with the present survey findings.

### Feature Images

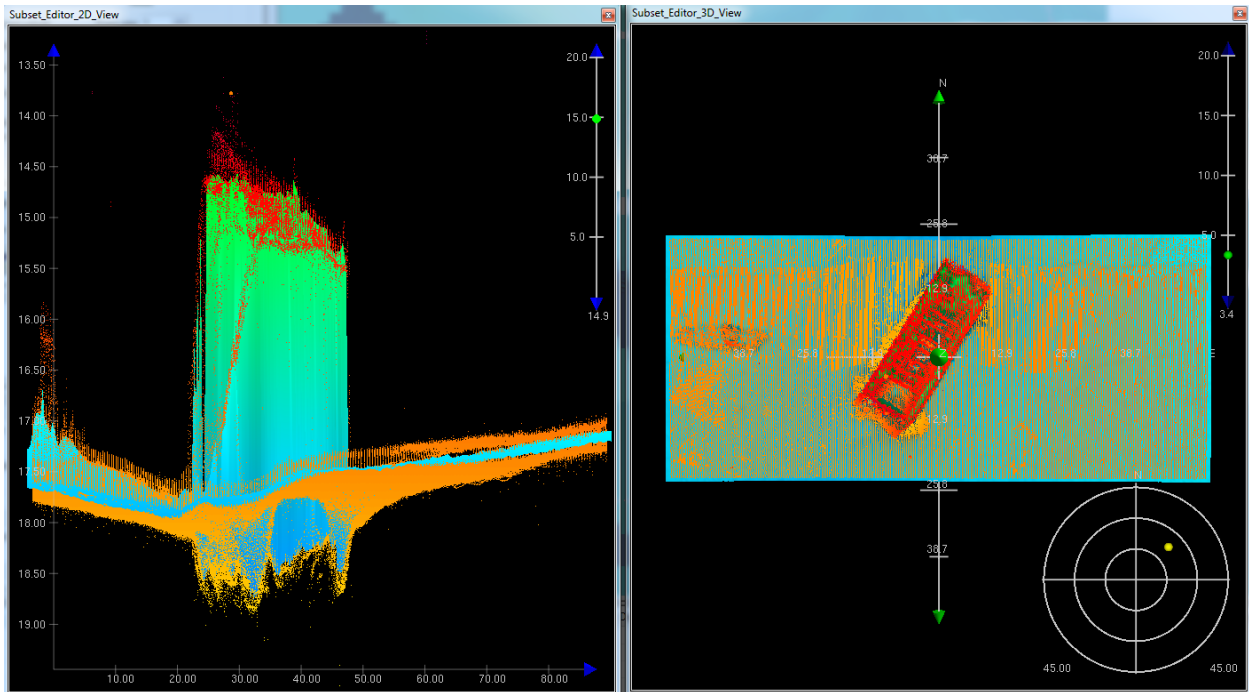


Figure 1.8.1

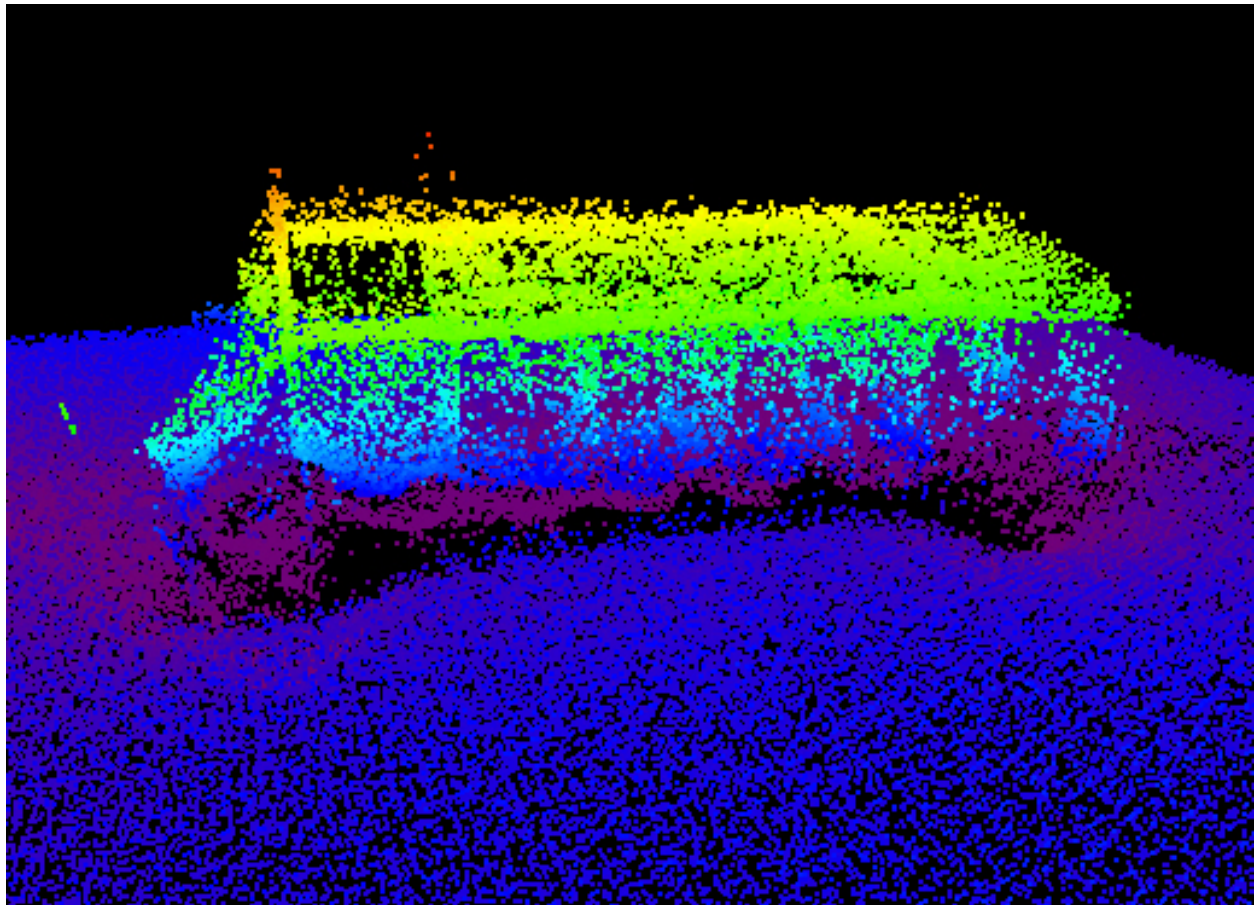


Figure 1.8.2

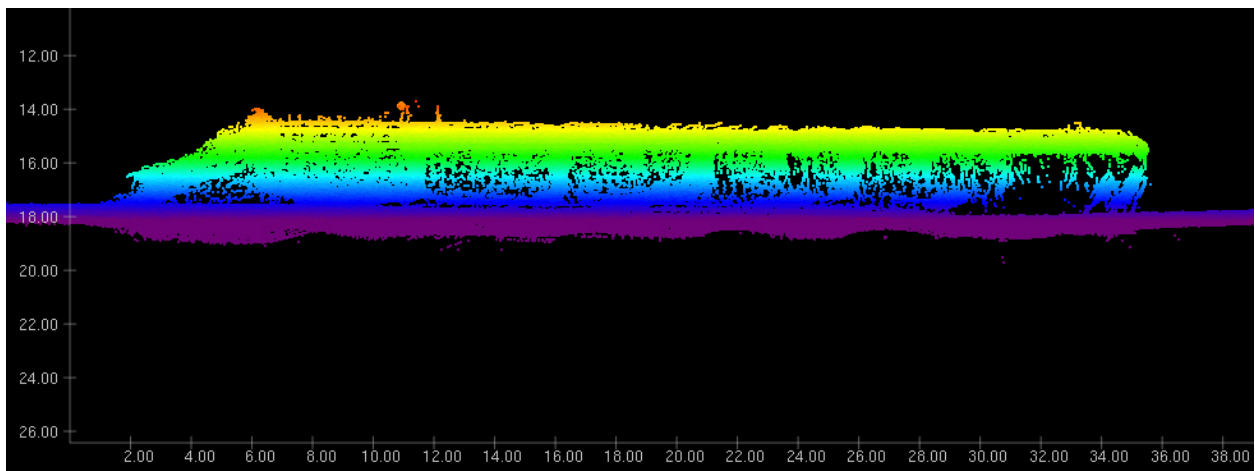


Figure 1.8.3

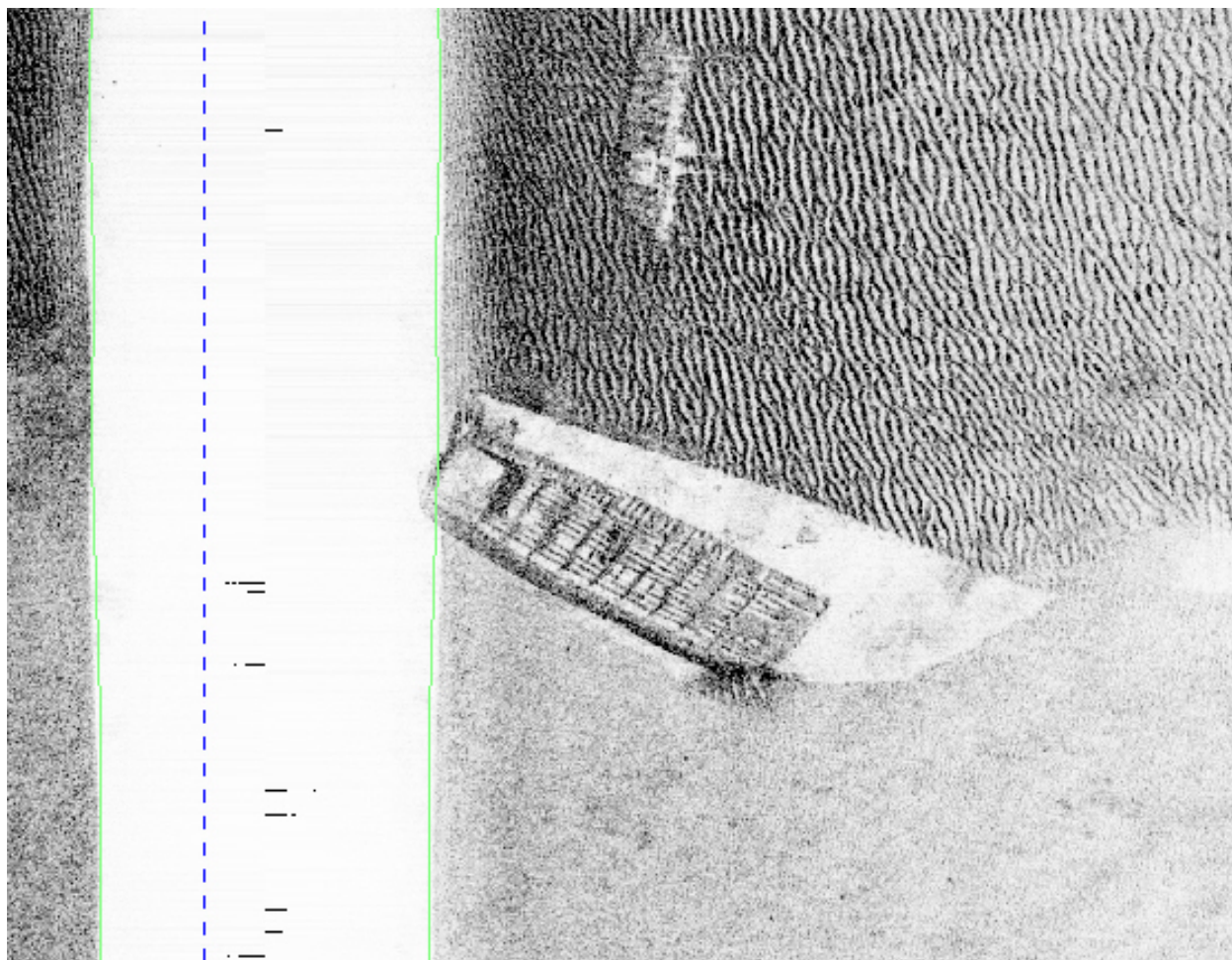


Figure 1.8.4



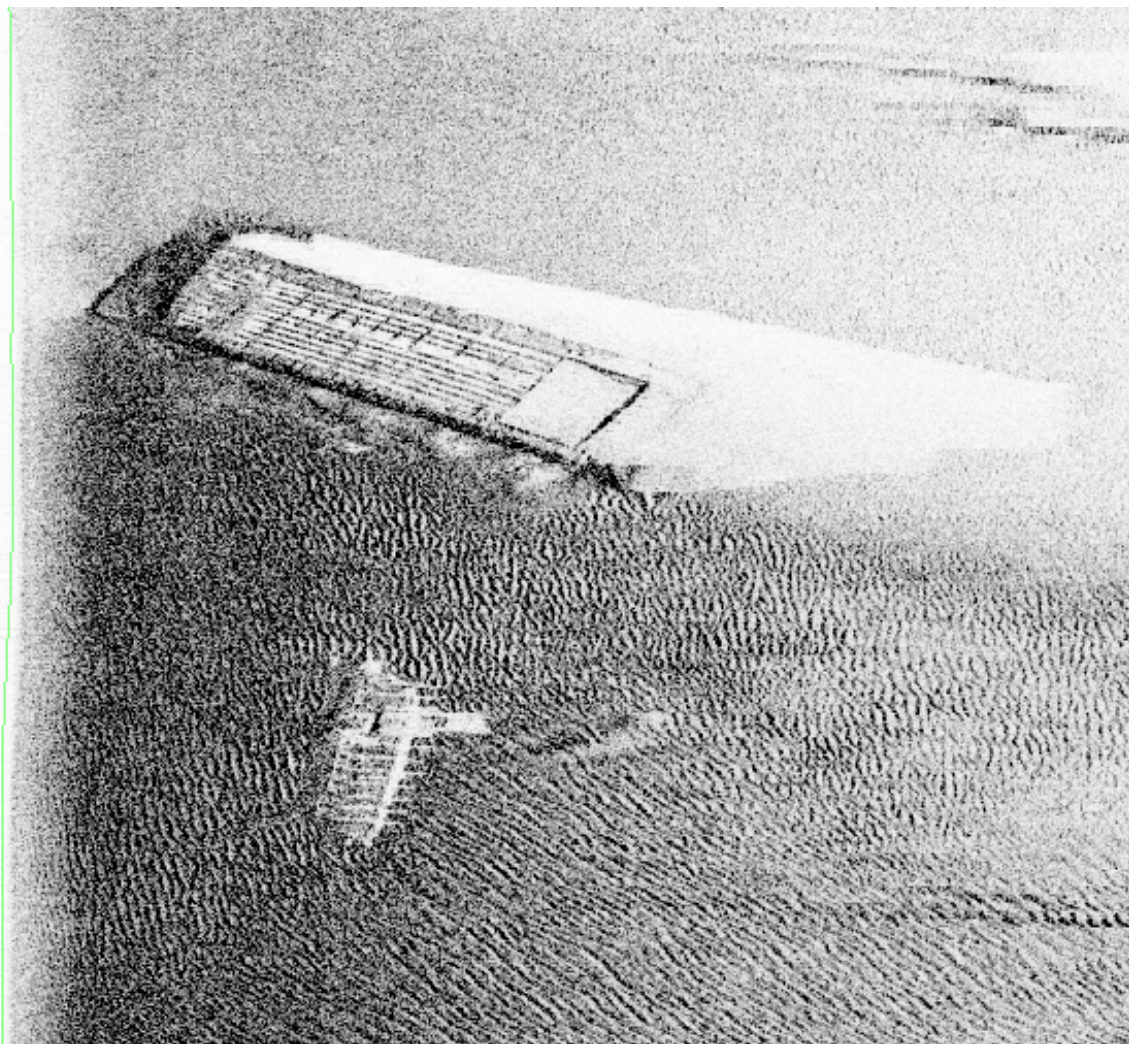


Figure 1.8.5

## 1.9) AWOIS 7707

### Feature for AWOIS Item #7707

**Search Position:** 40° 32' 09.7" N, 073° 41' 17.7" W  
**Historical Depth:** 11.36 m  
**Search Radius:** 300  
**Search Technique:** Type: IBERIA, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: MBES S2  
**Technique Notes:**

**History Notes:** DESCRIPTION 195 LORAN C RATES PROVIDED BY MR. RICHARD TARACKA GREENWICH CT. ì POLICE DEPARTMENT TEL. NO. 203-622-8020; IDENTIFIED AS IBERIA; ì 9960-X 26854.6 9960-Y 43736.2; LAT. 40-32-15.36N LONG. ì 73-41-10.57W (COMPUTED FROM LORAN RATES). (ENTERED MSM 5/90)

### Survey Summary

**Survey Position:** 40° 32' 09.7" N, 073° 41' 17.7" W  
**Least Depth:** 11.36 m (= 37.26 ft = 6.210 fm = 6 fm 1.26 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2013-164.00:00:00.000 (06/13/2013)  
**Dataset:** H12525\_AWOIS\_2.000  
**FOID:** 0\_ 0002671041 00001(FFFE0028C1C10001)  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1

**Remarks:**

WRECKS/remrks: Wreck Iberia confirmed using 200% SSS and ODMB. Soundings reduced to MLLW via ellipsoid heights and VDataum separation model.

### Feature Correlation

Source	Feature	Range	Azimuth	Status
H12525_AWOIS_2.000	0_ 0002671041 00001	0.00	000.0	Primary

### Hydrographer Recommendations

Chart wreck over least depth.

**Cartographically-Rounded Depth (Affected Charts):**

37ft (12326\_1)

6 ¼fm (12300\_1, 13006\_1, 13003\_1)



11.3m (5161\_1)

## S-57 Data

**Geo object 1:** Wreck (WRECKS)  
**Attributes:** CATWRK - 2:dangerous wreck  
CONVIS - 2:not visual conspicuous  
EXPSOU - 2:shoaler than range of depth of the surrounding depth area  
NINFOM - Add wreck  
QUASOU - 6:least depth known  
SORDAT - 20130613  
SORIND - US,US,graph,H12525  
TECSOU - 2,3:found by side scan sonar,found by multi-beam  
VALSOU - 11.356 m  
WATLEV - 3:always under water/submerged

## Office Notes

SAR: 37ft Wreck verified within survey data. Update AWOIS wreck Iberia position and depth per survey. The wreck is not currently charted. As of the end of the SAR, the NY SHPO has not responded regarding the sensitivity of this wreck.

COMPILATION: Concur. AWOIS item 7707 is presently not charted. Add dangerous sunken wreck, least depth 37 feet, in the present survey position. Update AWOIS database for AWOIS item 7707 based on present survey findings.

### Feature Images

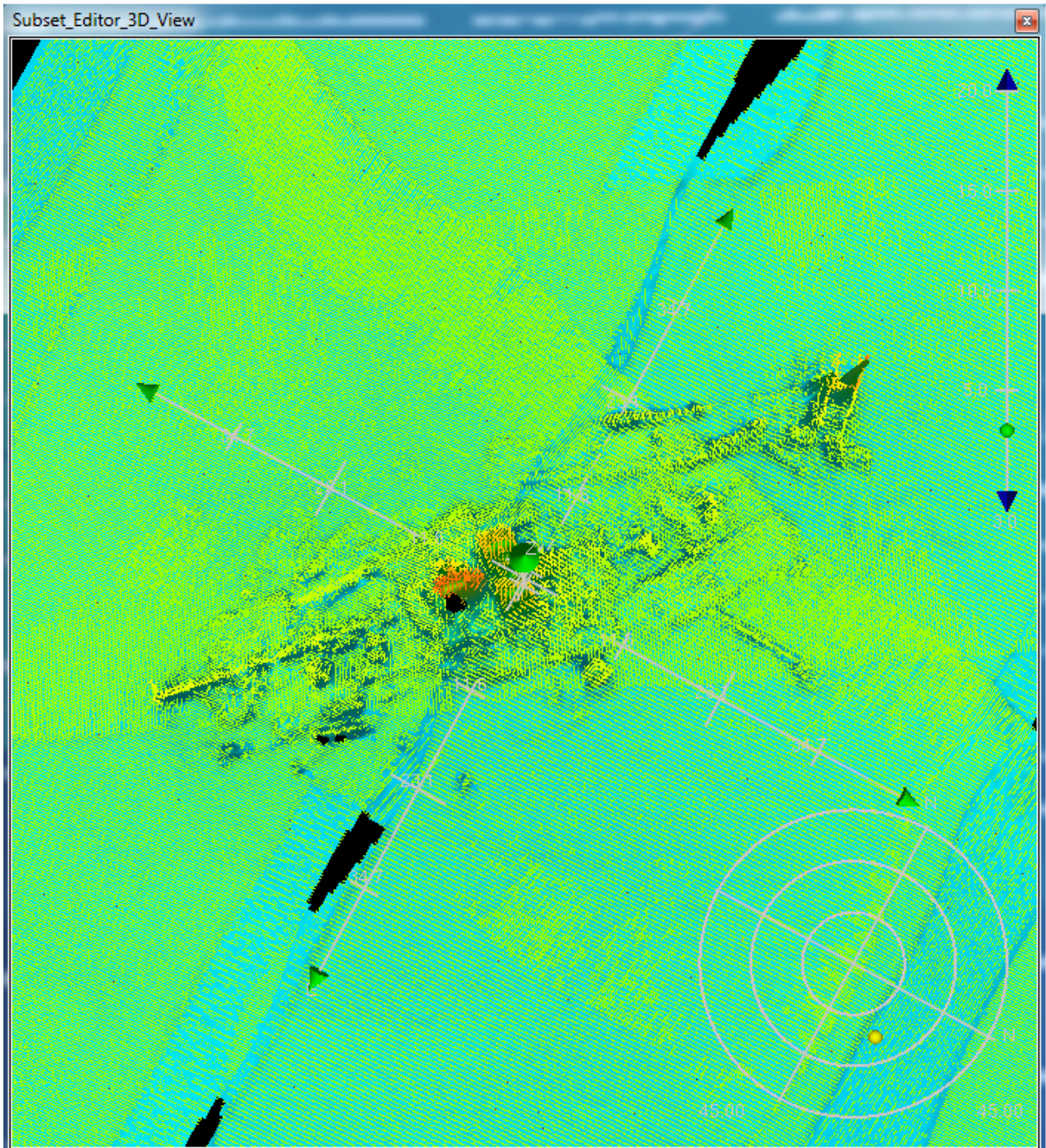


Figure 1.9.1



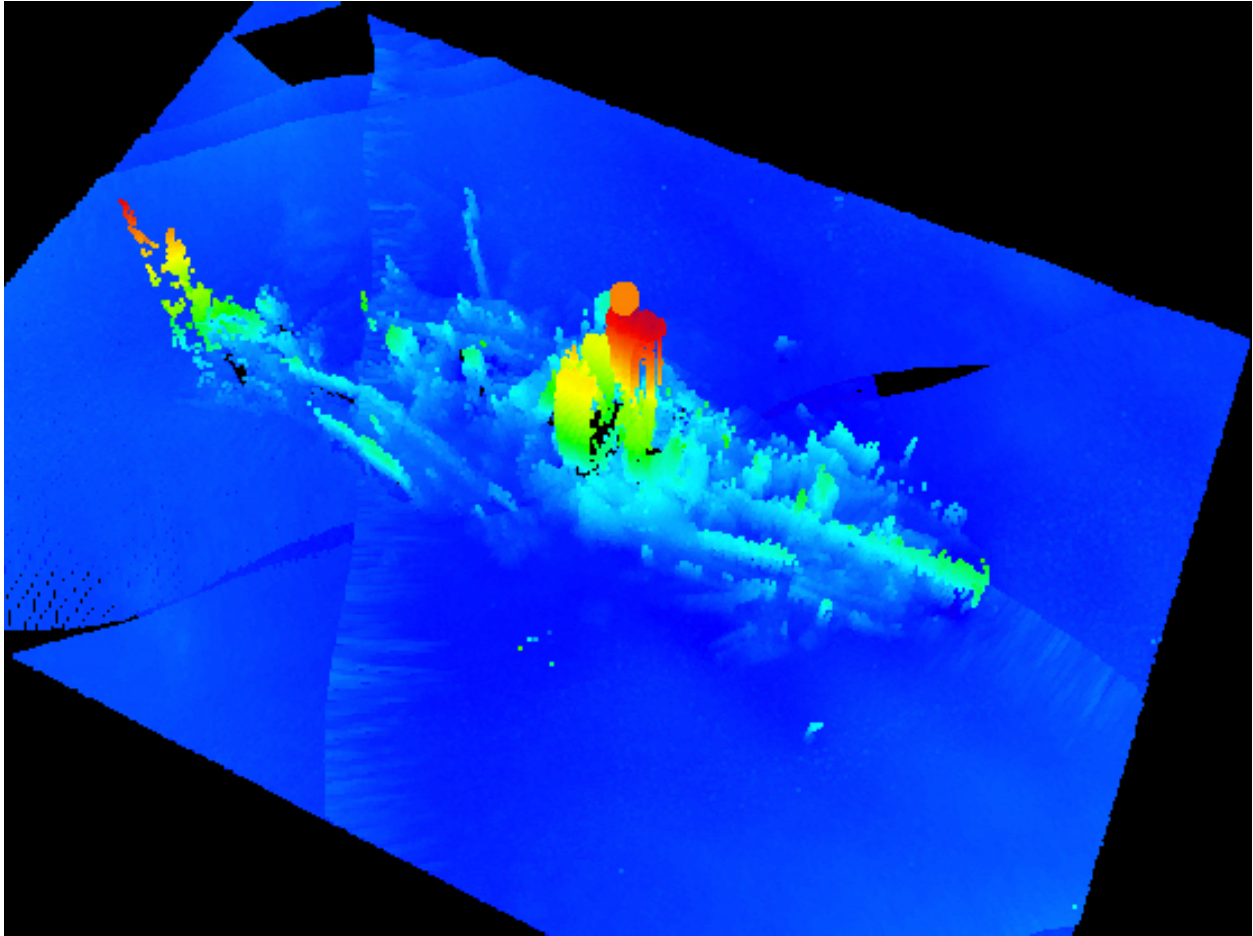


Figure 1.9.2

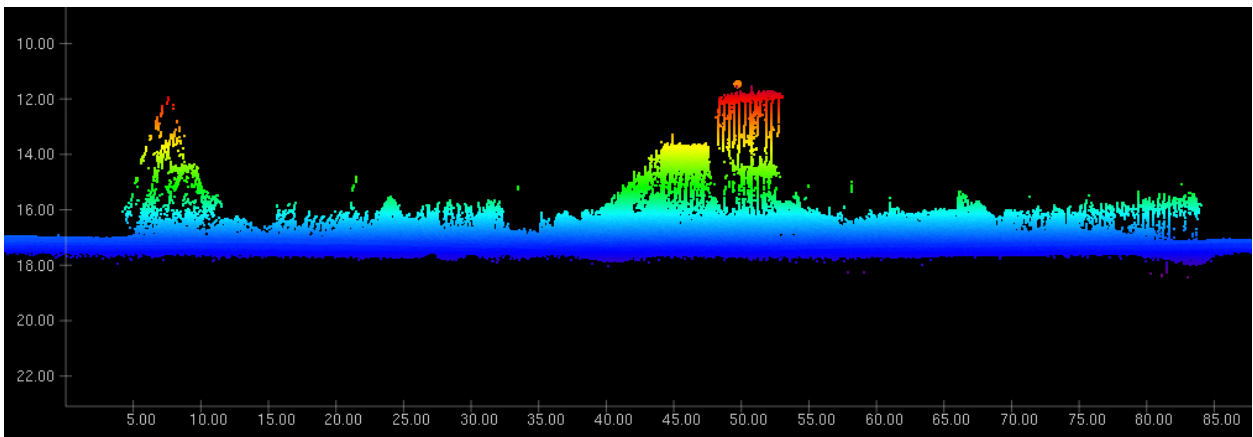


Figure 1.9.3

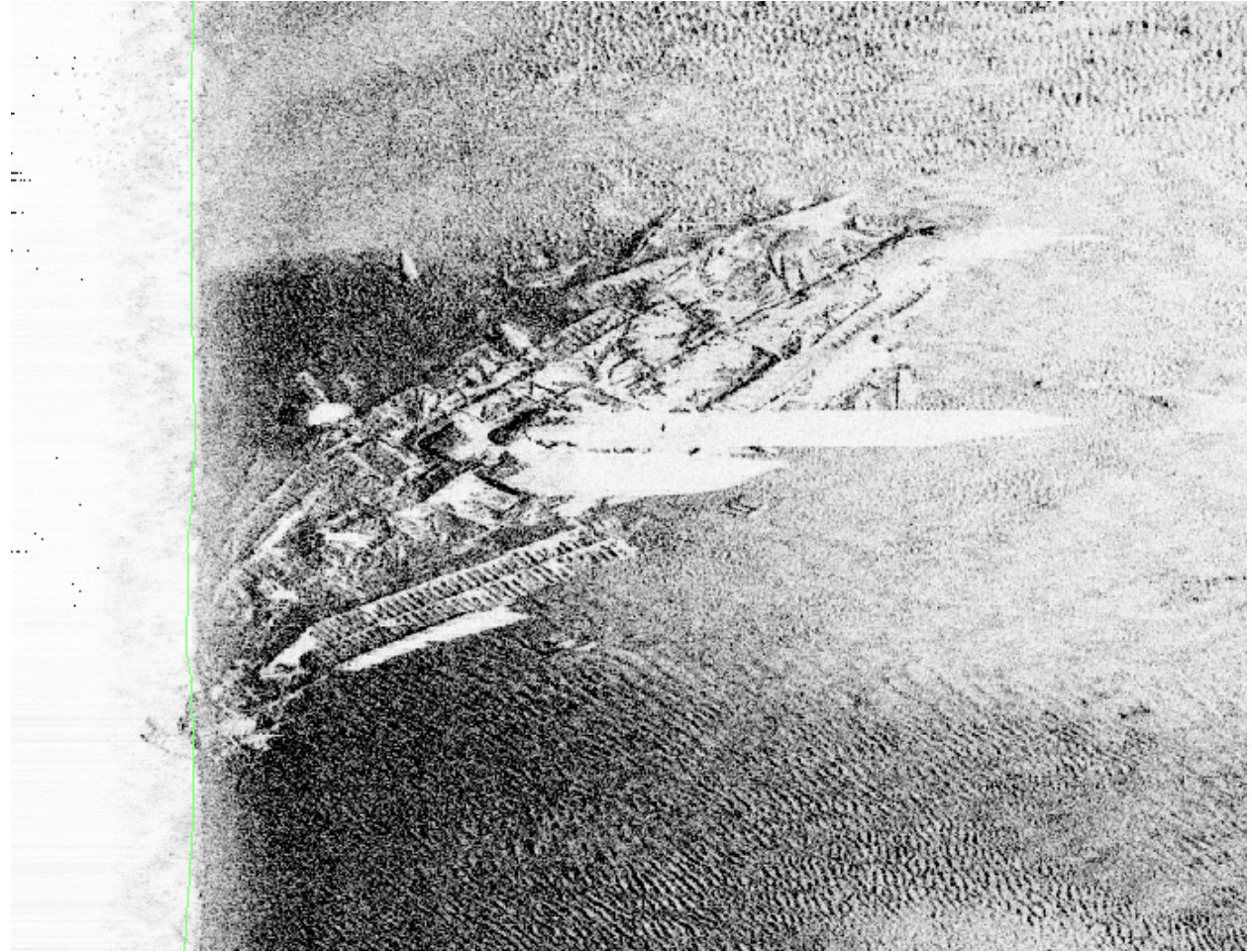


Figure 1.9.4

## 1.10) AWOIS 13254

### Feature for AWOIS Item #13254

**Search Position:** 40° 32' 23.9" N, 073° 40' 24.0" W  
**Historical Depth:** [None]  
**Search Radius:** 300  
**Search Technique:** Type: UNKNOWN, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: MB S2  
**Technique Notes:**

**History Notes:**LNM04/92 -- CHART CORRECTION ADDS SYMBOL FOR DANGEROUS WK PA AT 40/32/24N 73/40/24W (ENT. 05/26/05, SME)

### Survey Summary

**Survey Position:** 40° 32' 23.9" N, 073° 40' 24.0" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2013-164.00:00:00.000 (06/13/2013)  
**Dataset:** H12525\_AWOIS\_2.000  
**FOID:** 0\_0002671027 00001(FFFE0028C1B30001)  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1

**Remarks:**

\$CSYMB/remrks: Wreck disproven using 200% SSS.

\$CSYMB/invreq: Type: UNKNOWN, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: MB S2

### Feature Correlation

Source	Feature	Range	Azimuth	Status
H12525_AWOIS_2.000	0_0002671027 00001	0.00	000.0	Primary

### Hydrographer Recommendations

Delete

## S-57 Data

**Geo object 1:** Cartographic symbol (\$CSYMB)  
**Attributes:** NINFOM - Delete wreck  
NTXTDS - ENC#US4NY1AM, Edition27, 20130919  
SORDAT - 20130613  
SORIND - US, US, graph, H12525

## Office Notes

SAR: AWOIS wreck PA not found within radius, delete from chart.

COMPILATION: Concur. Delete charted dangerous sunken wreck PA, depth unknown. Consider item disproved by present survey. Update AWOIS database for AWOIS item 13254 based on present survey findings.

## 1.11) AWOIS 13251

### Feature for AWOIS Item #13251

**Search Position:** 40° 32' 05.7" N, 073° 39' 42.5" W

**Historical Depth:** 12.10 m

**Search Radius:** [unknown]

**Search Technique:** [unknown]

**Technique Notes:**

**History Notes:** [ L-920/59 -- USACE REPORTS A FISH HAVEN APPROX 7000 YDS DUE SOUTH OF THE GAS TANK AT LONG BEACH THE MATERIAL EXTENDS NOT MORE THAN TWO FEET ABOVE THE NATURAL BOTTOM CHARTED AT 40/32/12N 73/39/28W NAD27 (ENT 05/25/05, SME)

### Survey Summary

**Survey Position:** 40° 32' 05.7" N, 073° 39' 42.5" W

**Least Depth:** 12.10 m (= 39.70 ft = 6.616 fm = 6 fm 3.70 ft)

**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]

**Timestamp:** 2000-022.00:00:00.000 (01/22/2000)

**Dataset:** H12525\_AWOIS\_2.000

**FOID:** 0\_0002670926 00001(FFFE0028C14E0001)

**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1

**Remarks:**

[None]

### Feature Correlation

Source	Feature	Range	Azimuth	Status
H12525_AWOIS_2.000	0_0002670926 00001	0.00	000.0	Primary

### Hydrographer Recommendations

[None]

**Cartographically-Rounded Depth (Affected Charts):**

39ft (12326\_1)

6 ½fm (12300\_1, 13006\_1, 13003\_1)



12.1m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)

**Attributes:** CATOBS - 5:fish haven

NINFOM - Retain obstruction

QUASOU - 7:least depth unknown, safe clearance at value shown

SORDAT - 20000122

SORIND - US,US,graph,Chart 12326

VALSOU - 12.100 m

WATLEV - 3:always under water/submerged

### Office Notes

**COMPILATION:** Retain obstruction, fish haven, as charted. Update AWOIS database for AWOIS item 13251 as charted. No features found inside that were shoaler than the authorized minimum depth.

APPROVAL PAGE

H12525

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

- H12525\_DR.pdf
- Collection of depth varied resolution BAGS
- Processed survey data and records
- H12525\_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: \_\_\_\_\_  
**Lieutenant Commander Matthew Jaskoski, NOAA**  
Chief, Atlantic Hydrographic Branch