

H11916

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:* **H11916**

**LOCALITY**

*State:* New York

*General Locality:* New York Harbor & Approaches

*Sub-locality:* 6 NM East of Sandy Hook, NJ

**2008**

CHIEF OF PARTY  
CDR P Tod Schattgen  
NOAA

LIBRARY & ARCHIVES

DATE

1 NOAA FORM 77-28  
COMMERCE  
(11.72)

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

U.S. DEPARTMENT OF

2 REGISTRY NUMBER:

## HYDROGRAPHIC TITLE SHEET

**H11916**

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

4 State: **New York**

General Locality: **New York Harbor and Approaches**

Sub-Locality: **6 NM East of Sandy Hook, NJ**

Scale: **1:10,000** Date of Survey: **11 June 2008 to 14 July 2008**

Instructions Dated: **28 May 2008** Project Number: **OPR-B310-TJ-08**

Vessel: **NOAA Ship *Thomas Jefferson***

Chief of Party: **CDR P. Tod Schattgen**

Surveyed by: **NOAA Ship *Thomas Jefferson* Personnel**

Soundings by: **Reson 7125, 8101, and 8125 multibeam echosounders;**

Graphic record scaled by: **N/A**

Graphic record checked by: **N/A**

Protracted by: **N/A** Automated Plot: **N/A**

Verification by: **Atlantic Hydrographic Branch Personnel *AHB: red***

Soundings in: **Meters at MLLW**

5 Remarks:  
**1) All Times are in UTC.**  
**2) This is a Navigable Area Hydrographic Survey.**  
**3) Projection is NAD83, UTM Zone 18.**

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**Descriptive Report to Accompany Hydrographic Survey *H11916***

Project OPR-B310-TJ-08  
 6 NM East of Sandy Hook, New Jersey  
 New York Harbor and Approaches, NY and NJ  
 Scale 1:10,000  
 11 June – 14 July, 2008  
 NOAA Ship *Thomas Jefferson*

**A. AREA SURVEYED**

This hydrographic survey was completed as specified by Hydrographic Survey Letter Instructions OPR-B310-TJ-08, dated 28 June 2008. The survey area includes the Ambrose Channel Precautionary Area. The approximate survey area limits are listed in table A-1.

Northwest Corner	Northeast Corner	Southeast Corner	Southwest Corner
40° 31' 48" N 073° 54' 11" W	40° 31' 44" N 073° 49' 29" W	40° 24' 49" N 073° 49' 38" W	40° 24' 52" N 073° 54' 17" W

*Table A-1: survey H11916 limits.*

A total of 22 days of ship and launch acquisition were implemented between 11 June and 14 July, 2008, (see table A-2). A total of 1452.3 lineal nautical miles (lnm) of multibeam echo sounder (MBES) and side scan sonar (SSS) data were surveyed, see table A-3. This number does not include MBES cross lines which are a data check.

Calendar Date	Julian Day	Calendar Date	Julian Day
11 June	163	29 June	181
12 June	164	8 July	190
13 June	165	9 July	191
14 June	166	10 July	192
15 June	167	11 July	193
16 June	168	12 July	194
17 June	169	13 July	195
18 June	170	14 July	196
19 June	171		
24 June	176		
25 June	177		
26 June	178		
27 June	179		
28 June	180		

*Table A-2: survey H11916 dates of acquisition.*

<b>NOAA Ship THOMAS JEFFERSON, Sheet H: H11916</b>	
LNM Multibeam main scheme only	1069.9
LNM Side Scan Sonar main scheme only	382.4
LNM Crosslines vertical beam and multibeam combined	63.4
LNM development lines non main scheme	0
LNM shoreline/nearshore investigations	0
Number of Bottom Samples	19
Number of items investigated that required additional time/effort in the field beyond the above survey operations	0
Total number of square nautical miles	24.7

Table A-3: survey H11916 statistics.

The purpose of the project is to provide accurate depths and object detection in the New York Harbor and its approaches to support safe and efficient marine transportation in the region. This is an area of considerable marine traffic and most of the current survey data in this project area is pre-1982. Parts of the project area have not been surveyed since 1927. H11916 survey limits are shown in figure A-1 below, it was modified, approved by HSD, and incorporate into two sheets (see appendix 5). **Concur.**

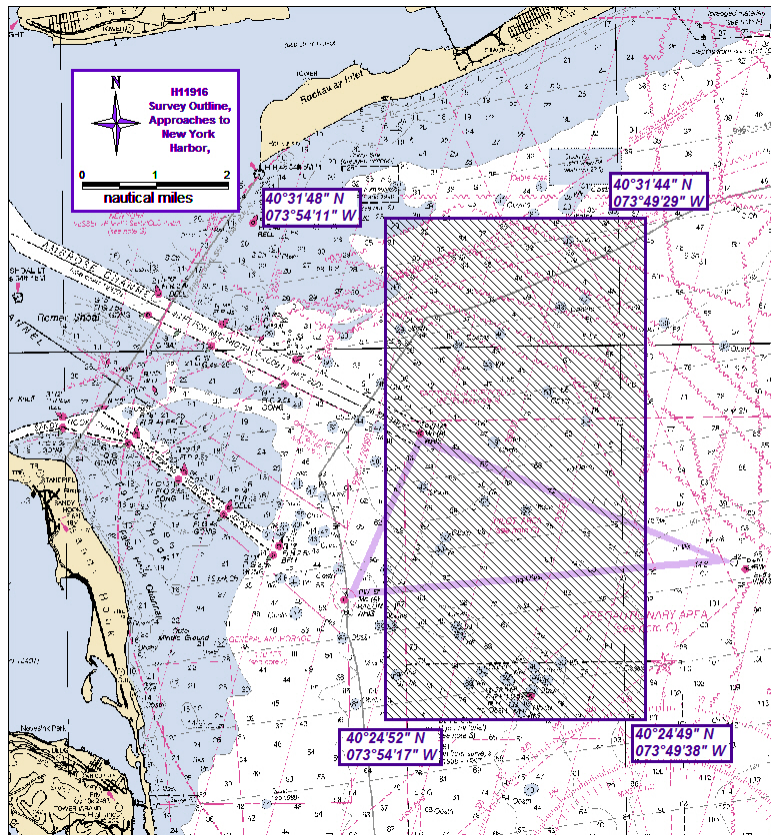


Figure A-1: H11916 survey outline, chart # 12326\_1 shown in background

## **B. DATA ACQUISITION AND PROCESSING**

Refer to OPR-B310-TJ-08 *Data Acquisition and Processing Report* (2008 Spring 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 included in this descriptive report. \* DAPR filed with original field reports, and also submitted to Hydrographic Survey Division (HSD) with survey deliverables.

### **B 1. EQUIPMENT AND VESSELS**

Data was acquired by NOAA Ship *Thomas Jefferson*, Survey Launch 3101 and Survey Launch 3102. NOAA Ship *Thomas Jefferson* acquired side-scan imagery, multibeam echosounder soundings, and sound velocity profiles. All multibeam data acquired by the ship were collected in the single head mode using the port side Reson 7125 transducer. Survey Launch 3101 acquired multibeam echosounder soundings, bottom samples, and sound velocity profiles. Survey Launch 3102 acquired side-scan imagery, high-resolution multibeam echosounder soundings, and sound velocity profiles. Vessel configurations, equipment operation and data acquisition and processing were consistent with specifications described in the DAPR, with the exception of Pitch, Roll and Yaw biases for Launch 3101 and 3102. A patch test was performed on both launches, and the HIPS Vessel File (HVF) files were updated to reflect the current values.

Field submitted HVFs (TJ\_3101\_RESON8125 & TJ\_3102\_Reson8101) had no values for MRU Alignment Standard Deviations. New HVFs with MRU values populated were acquired from the field unit and implemented during branch ESAR processing.

### **B 2. QUALITY CONTROL**

#### **B.2.1 System Certification and Calibration**

Refer to NOAA Ship *Thomas Jefferson Data Acquisition and Processing Report* (2008 Spring DAPR) and *Hydrographic Systems Readiness Report* (HSRR) for a complete description of system integration and initial calibration results for equipment and sensors used for this survey.

#### **B.2.2 Sounding Coverage**

As per the *Letter Instructions*, this survey was conducted using complete MBES and 100% SSS coverage.

Side scan sonar coverage was proven by creation of 100% coverage mosaics, with 1 meter resolution. A list of all side-scan sonar contacts is contained in Separates II.

Bathymetry coverage was proven by the creation of a Combined Uncertainty Bathymetric Estimator (CUBE) surface with 2 meter grid resolution, at IHO order I, and calculated with deep parameters. There are Sixty-Three data gaps exceeding the 3 node maximum in the CUBE surface.

Twenty-Nine of these MB gaps are caused by lack of multiyear ensonification, MB Holiday. The remaining 34 gaps are the result of the software intimately dropping the returning along track

signal, MB ISIS stutters. The MB holidays were superimposed by the side scan imagery and analyzed for significant features in the MB gaps. There were no significant features found in the MB holidays. The MB ISIS stutters were also superimposed by the side scan imagery, however they were rarely greater than 2 nodes along track data gaps and this does not pose as a significant gap in coverage.

Concur.

### B 2.3 Crosslines

MBES crosslines, acquired by HSL 3101, 3102, and the NOAA Ship *Thomas Jefferson* (S222), totaled 63.4 lineal nautical miles (lnm), which was 6% of all main scheme MBES data collected for this survey. The crosslines were used to check for MBES consistency against the main scheme MBES. With the exception of 13.4 lnm in which RESON 8101 crosslines were compared to RESON 8125 mainscheam data, crosslines were compared to mainscheam data acquired by the same platform.

As per guidance from the Atlantic Hydrographic Branch (AHB) an evaluation of the Standard Deviation layer of the BASE surfaces was performed for each field sheet in the survey (See Appendix V). The results indicate areas of increased standard deviation generally resulted from either poor Sound Velocity correction, or high overlap between holiday and main scheme lines, or man made features. The results of the evaluation are located in Appendix V.

Concur.

### B 2.4 Junctions and Prior Surveys

Survey H11916 is bordered on the west by survey H11709, in the Sandy Hook area. H11709 was conducted by the *Thomas Jefferson* during the 2007 field season. Fourteen junction points were examined where the field sheets from H11709 and the combined field sheet for the current survey overlapped. In 13 out of 14 of the comparisons, the variations were between 0.01 and 0.1 meters. In a single instance, the current survey showed a depth greater than 1 meter deeper than the survey from 2007. This deviant point is near the center of the Ambrose Channel, where there has been considerable dredging by the Army Corps of Engineers and their contractors. The depth difference at this location can be assumed to be due to dredge scour which occurred in the time between these surveys. With the exception of this instance, the two surveys compare very favorably.

Concur.

### B 2.5 Systematic Errors

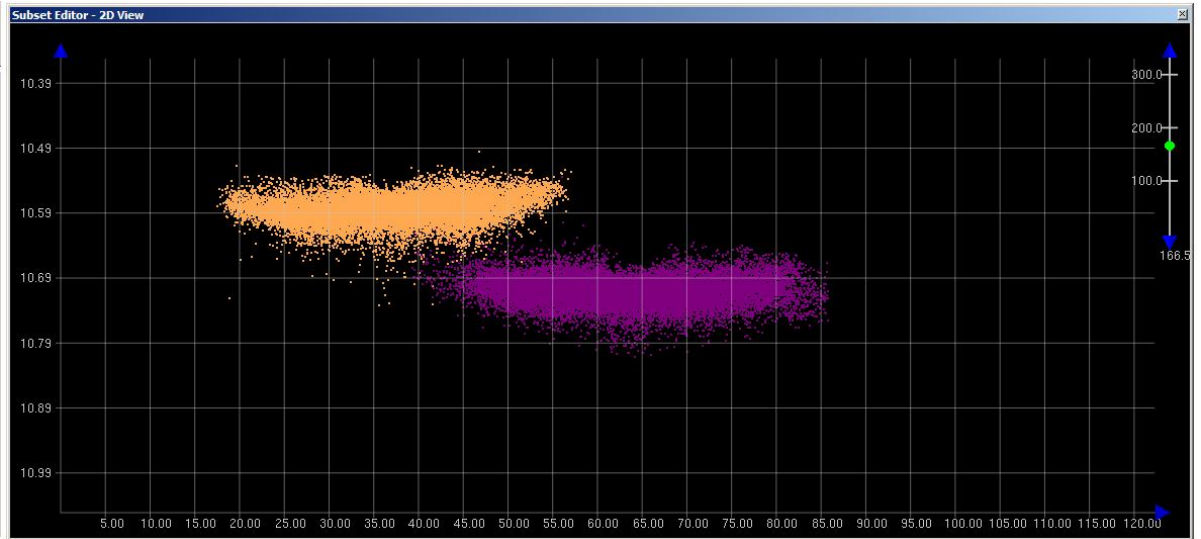
**B 2.5.1 Beam Steering Error:** From Julian Day 163 thru 171 the Digi-Bar sonar used to supply the RESON 8125 with surface sound velocity had an error of unknown origin. As a result the RESON 8125 was unable to properly resolve the angle of returning beams. The error was detected on DN171 and the Digi-Bar unit was replaced. Due to the malfunction data acquired by HSL 3102 on DN's 163, 168, 169, 170 and 171 has an irresolvable SVP error averaging 0.20m across a 50m swath, with a maximum error of 0.60m. The CUBE surface shows a 0.10m variation between nadir and outer beams, and the data remains within IHO Order 1 error budget.

Concur.



**B 2.5.2 Static Draft Error:** Over the course of a typical day both HSL 3101 and 3102 experience a change in draft due to fuel consumption. In instances when adjoining or overlapping lines were acquired in the morning versus the afternoon, a depth difference of up to 0.1m can be observed (see figure B-1). This draft artifact is particularly visible when a line run at the end of one day parallels a line run at the beginning of a different day (see figure B-2). It can also be seen at points where holiday lines overlap main scheme lines acquired at different times of day. All errors due to static draft remain within the error budget.

Concur.



F

Figure B-1 shows a screen capture of Subset Editor - 2D View with an obvious 0.10m gap between concurrent lines. The line on the right was acquired on day 194 with light fuel tanks, while the line on the left was acquired on day 195 with full tanks. Fuel consumption caused a decrease in draft, thereby increasing the apparent depth of the line on the right. Both lines were acquired by HSL 8125 at position is 40.478N, 073.898W.

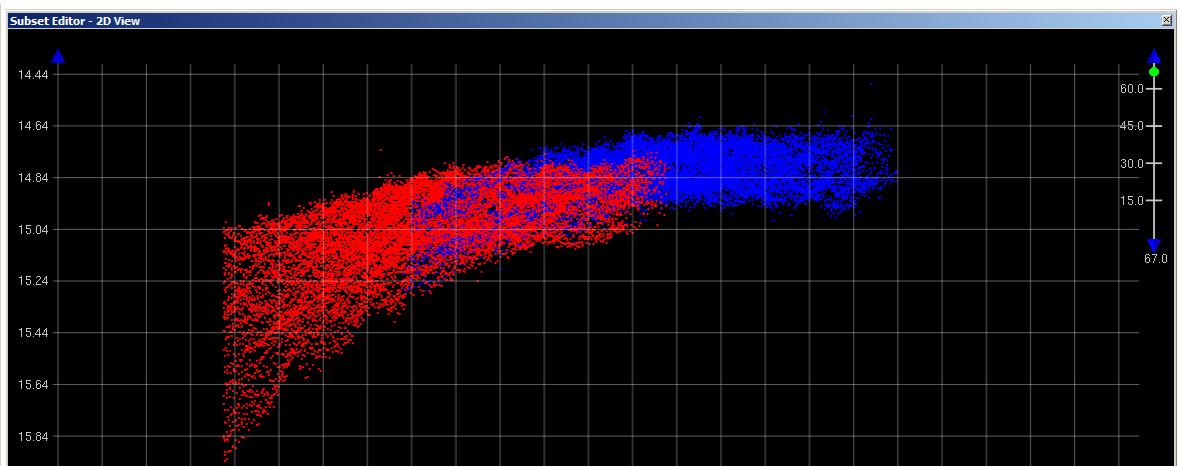


Figure B-2 shows a screen capture of Subset Editor – 2D View with excellent correlation between lines. Both lines were acquired with full tanks, however the line

*on the left was acquired on day 171 while the line on the right was acquired on day 168. Both lines were acquired by HSL 8125 at position 40.522N, 073.891W.*

**B 2.5.2 Sound Velocity Error:** Some sound velocity error is present in all days, but does not affect every line, nor is there consistent refraction throughout a single line. The amount of error is generally about 0.20m, but can be as great as 0.60m. At this time the source of the error is unknown. Over the course of the survey the *Thomas Jefferson* used both the Brooke Ocean Technology (MVP-100-2) Moving Vessel Profiler (MVP) and Sea-Bird Electronics (SBE 19 plus) Conductivity, Temperature and Depth (CTD) probe to acquire sound velocity profiles. The use of different platforms indicates that the error is not tied to a malfunctioning sensor. Weekly Daily Quality Assurance (DQA) checks were performed, and no profilers were found to be in error. The presence or depth of thermocline has no apparent correlation to the severity of the error, nor does the amount of refraction necessarily improve for lines close in distance and time to a specific cast. A possible source of error currently being investigated is the disassociation between the depth of the RESON 7125 transducer face and the Surface Sound Velocity Sensor intake that occurs when the ship rolls.

Concur.

### **B 3. CORRECTIONS TO ECHO SOUNDING**

Bathymetry data were reduced to mean lower-low water (MLLW) using approved tides from the primary station at Sandy Hook, NJ, station 8518750, and secondary station at the Battery, New York, station 8531680. These tide values were adjusted for tidal constituents and residuals provided by the Center for Operational Oceanographic Products and Services (CO-OPS) as specified in the Letter Instructions and illustrated in Figure B-3.

Final TCARI grid file was used in all MBES data. Cannot currently confirm if verified water levels were applied due to Caris Query limitations. Verified water levels assumed to be applied due to this field unit statement as well as C.1.2 Vertical Control.

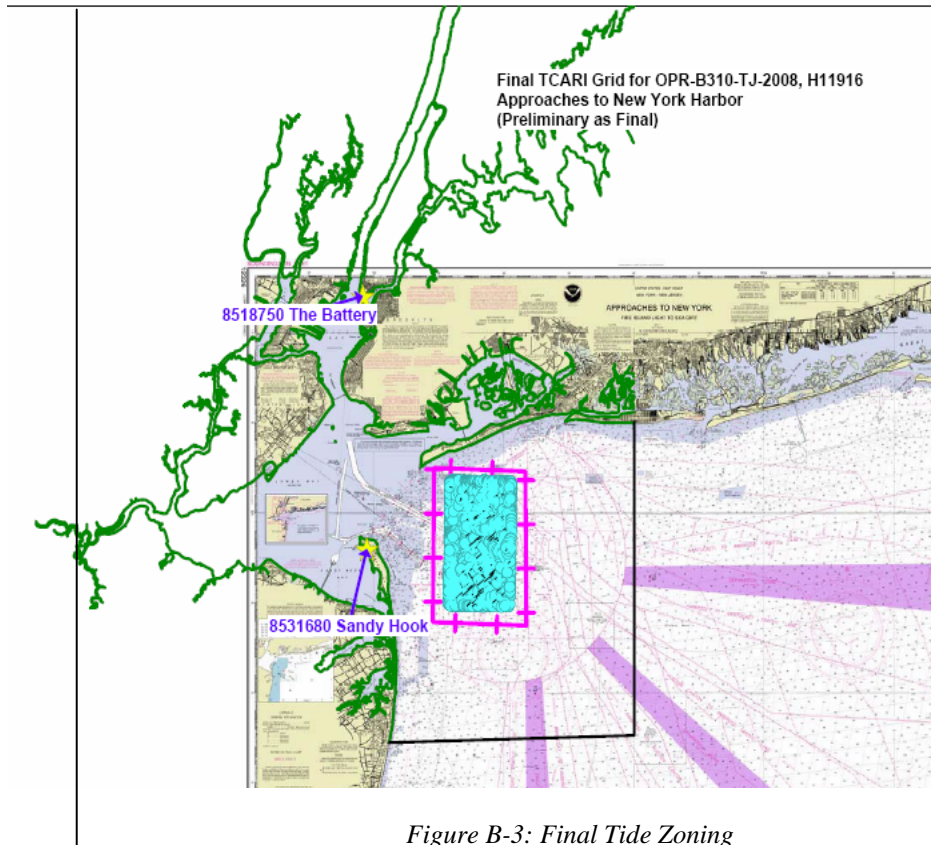


Figure B-3: Final Tide Zoning

All other datum reduction procedures conform to those outlined in the **DAPR**. \*  
 All methods and instruments used for sound velocity correction were as described in the **DAPR**.  
 \* A table detailing all sound velocity casts is located in Separate II of this Descriptive Report.  
 \*DAPR filed with original field reports, and also submitted to Hydrographic Survey Division (HSD) with survey deliverables.

## B 4. DATA PROCESSING

### B 4.1 Total Propagated Error

For the 2008 field season, Total Propagated Error (TPE) parameters for sound speed and tides are calculated separately for each project. The project-specific parameters for OPR-B310-TJ-08, Survey H11916 are displayed in table B-1. These values were calculated for all MBES data immediately following CARIS Merge.

Vessel	Tide Values		Sound Speed Values	
	Measured	Zoning	Measured	Surface

3101	0	0	4	0.2
3102	0	0	4	0.2
S222 (CTD)	0	0	4	0.2
S222(MVP)	0	0	1	0.2

*Table B-1: Total Propagated Error values used.*

Concur.

**B 4.2 BASE Surfaces and Mosaics**

The following table (B-2) describes all BASE Surfaces and Mosaics submitted as part of Survey H11916:

<b>Name of Fieldsheet</b>	<b>Resolution</b>	<b>Type</b>	<b>Purpose</b>
H11916_100SSS_Mosaic	1 meter	SSS Mosaic	
H11916_Combined_5m_Final	5 meter	Final combined	
H11916_1_2m_CUBE_deep_Final	2 meter	CUBE_deep	Shows N-W corner
H11916_2_2m_CUBE_deep_Final	2 meter	CUBE_deep	Shows N-E corner
H11916_3_2m_CUBE_deep_Final	2 meter	CUBE_deep	Shows W-center
H11916_4_2m_CUBE_deep_Final	2 meter	CUBE_deep	Shows E center
H11916_5_2m_CUBE_deep_Final	2 meter	CUBE_deep	Shows S-W corner
H11916_6_2m_CUBE_deep_Final	2 meter	CUBE_deep	Shows S-E corner

*Table B-2: BASE surfaces and mosaics.*

This survey was processed using the Combined Uncertainty and Bathymetry Estimator (CUBE) algorithm. The CUBE configuration was set to “Deep” for this entire survey.

Concur.

## **C. VERTICAL AND HORIZONTAL CONTROL**

Per HSTP guidance (see: Appendix V), a HVCR report was not filed as no horizontal/vertical control stations were established by the field party for survey H11916. A summary of horizontal and vertical control for this survey follows.

### **C 1.1 Horizontal Control**

The horizontal datum for this project is the North American Datum of 1983 (NAD83), Universal Transit Mercator (UTM) zone 18. Differential GPS (DGPS) was the sole method of positioning. Differential corrections from U.S. Coast Guard beacons at Sandy Hook, NJ (286 kHz), and Moriches, NY (293 kHz), were used during this survey.

No horizontal control stations were established by the field party for this survey.

*Concur.*

### **C 1.2 Vertical Control**

The vertical datum for this project is relative to Mean Lower-Low Water (MLLW). The operating National Water Level Observation Network (NWLON) station at The Battery, NY (8518750) and Sandy Hook, NY (8531680), serve as datum control for H11916.

A request for delivery of final approved (verified) tides for this survey was forwarded to N/OPS1 on Sep 3<sup>rd</sup>, 2008 in accordance with the FPM and project letter instructions. Approved (verified) water levels were downloaded from CO-OPS on Aug 10<sup>th</sup>, 2008 and applied to final tide zoning on Sept 16<sup>th</sup>, 2008 (see appendix 4).

*Concur.*

## D. RESULTS AND RECOMMENDATIONS

### D.1 Chart Comparison

Survey H11916 was compared with chart #12350 (59<sup>th</sup> edition, May 2006, 1:20,000), chart #12326 (50<sup>th</sup> edition, May 2006, 1:80,000), chart #12300 (47<sup>th</sup> edition, May 2008, 1:400,000), chart #13006 (34<sup>th</sup> edition, May 2007, 1:675,000), and chart #13003 (49<sup>th</sup> edition, April 2007, 1:1,200,000), Chart comparisons were performed in CARIS Field Sheet Editor, using US Survey Feet and NOAA Feet/Fathoms for sounding rounding.

#### D.1.1 Chart 12350 Comparison

Depths from chart 12350 generally agree with the current survey, with difference of  $\pm 0$  to 3 feet. The charted 31' obstruction located at position 40° 31' 49.2"N, 073° 51' 32.8"W is 1 foot more shoal than the least depth from the current survey.

Concur.

#### D.1.2 Chart 12326 Comparison

Depths from chart 12326 are consistently shallower than depths from the current survey, with the exception of the Southwest corner where survey depths are significantly shoal of charted depths. The difference between charted depths and survey depths is generally  $\pm 1$  to 5 feet, with the exception of the Southwest corner where the difference is up to -18 feet.

Concur.

The following are significant differences between chart 12326 and the current survey.

D.1.2.1 No obstruction was found at the charted 51 ft sounding on a dangerous obstruction position at 40° 29' 22.5"N, 073° 51' 18.7"W. This obstruction is considered disproved using object detection multibeam and 100% side scan sonar coverage. Surveyed depths are consistent with surrounding area recommend removing charted obstruction symbol.

Concur, however, source grids support complete MBES coverage. HDCS data supports object detection.

D.1.2.2 The 60' contour near position 40° 29' 19.6"N, 073° 50' 20.8"W has moved approximately 1000m inshore of charted line.

Concur.

D.1.2.3 No significant rock was found at the charted 64ft sounding on dangerous rock at position 40° 28' 58.0"N, 073° 50' 37.1"W. This rock is considered disproved using object detection multibeam and 100% side scan sonar coverage. Surveyed depths are consistent with surrounding area, recommend removing charted rock symbol.

Concur. See D.1.2.1 comment re:coverage.

D.1.2.4 No significant obstruction was found at the charted 49ft sounding on dangerous obstruction at position 40° 28' 41.4"N, 073° 52' 16.8"W. This obstruction is considered disproved using object detection multibeam and 100% side scan sonar coverage. Surveyed depths are consistent with surrounding area, recommend removing charted obstruction symbol.

Concur. See D.1.2.1 comment re:coverage.

D.1.2.5 No significant obstruction was found at the charted 70ft sounding obstruction at position 40° 28' 18.5"N, 073° 50' 55.7"W. This obstruction is considered disproved using object detection multibeam and 100% side scan sonar coverage. Surveyed depths are consistent with surrounding area, recommend removing charted obstruction symbol.

Concur. See D.1.2.1 comment re:coverage.

D.1.2.6 No significant obstruction was found at the charted 46ft dangerous obstruction at position 40° 28' 05.3"N, 073° 53' 34.7"W. This obstruction is considered disproved using object detection multibeam and 100% side scan sonar coverage. Surveyed depths are consistent with surrounding area, recommend removing obstruction symbol.

Concur. See D.1.2.1 comment re:coverage.

D.1.2.7 The surveyed depths surrounding the charted 86 ft sounding at position 40° 26' 50.7"N, 073° 53' 10.4"W are significantly more shoal than charted. The hydrographer recommends changing the sounding to reflect the surveyed depths.

Concur.

D.1.2.8 No significant wreck was found at the charted dangerous wreck at position 40° 24' 58.8"N, 073° 51' 52.3"W. This wreck is considered disproved using object detection multibeam and 100% side scan sonar coverage. Surveyed depths are consistent with surrounding data, recommend removing charted wreck symbol.

Concur. See D.1.2.1 comment re:coverage.

D.1.2.9 The 30 ft contour at the Northwest corner of the surveyed area has moved approximately 400m inshore of charted curve.

Concur.

### **D.1.3 Chart 12300**

The charted 11 fathom obstruction corresponds to an 12 fathom feature located at position 40° 26' 46.9"N, 073° 51' 51.3"W. This obstruction is listed as feature number 3.24 in the Survey Features Report, found in Appendix 2 of this report.

Concur. After office processing, this feature is number 3.27 in the Features Report (App. 2).

### **D.1.4 Chart 13006**

The charted 8½ fathom shoal agrees with the current survey, with a difference of + ½ fathom. The 10 fathom contour has moved 500 to 3000 meters inshore of the charted contour. The Hydrographer recommends revising the 10 fathom contour line to correspond with soundings from the present survey.

Concur.

### **D.1.5 Chart 13003**

This chart has no soundings corresponding with the surveyed area.

The charted 10 fathom contour has very poor correlation to depths from the current survey which shows the contour between 800 and 2000m closer to shore. The Hydrographer recommends moving the 10 fathom contour line to correspond with soundings from the present survey.

Concur.

### **D.1.6 ENC US5NY1BM**

US5NY1BM overlaps along the western edge of H11916. Soundings between the two generally agree within 2-4 feet in the overlapped portion north of Ambrose Channel. Greatest differences between the ENC and H11916 exist south of Ambrose Channel, with survey depths generally between 2-6 feet deeper than charted. [Entered by AHB]

### **D.1.7 ENC US5NY50M**

US5NY50M appears to have been compiled from raster chart 12350. Comparisons between H11916 and this ENC are the same as those found in D.1.1 of this Descriptive Report. [Entered by AHB]

### **D.1.8 ENC US4NY1AM**

US4NY1AM appears to have been compiled from raster chart 12326. Comparisons between H11916 and this ENC are the same as those found in D.1.2 of this Descriptive Report. [Entered by AHB]

## **D.2 Additional Results**

### **D.2.1 Automated Wreck and Obstruction Information Service (AWOIS) Items**

A total of 37 assigned AWOIS items were located within the modified limits of H11916; these were investigated during this survey. AWOIS items were investigated with 100% side scan sonar and complete MBES over the search radius. All AWOIS items are described in detail in Appendix II of this report.

Concur, except the number of AWOIS items reported / in the PSS is 40.

### **D.2.4 Shoreline**

There is no shoreline within the sheet limits of survey H11916.

Concur.

### **D.2.5 Charted Features**

A charted dredge spoil dump site is located on the south-west corner of this survey. It is described in detail below under D.3.2: 'Shoals'.



Concur.

**D.2.6 Charted Pipelines and Cables**

Several charted pipelines and one charted cable transect the survey area. All pipes and cables appear to be buried or in a few cases are noticeable but pose no significant obstruction to navigation.

Concur.

**D.2.7 Bridges, Ferry Routes, and Overhead Cables**

There are no ferry routes, bridges, or overhead cable crossings within the limits of the survey.

Concur.

**D.3 Dangers to Navigation and Shoals**

**D 3.1 Dangers to Navigation**

Two Dangers to Navigation (DTONs) were found and reported to the NOAA’s Office of Coast Survey, Marine Chart Division (MCD) for verification and final submission to the First Coast Guard District. A copy of each DTON is included in Appendix I, and a copy of each DTON email to MCD is located in Appendix V of this Descriptive Report.

A table of all Dangers to Navigation identified in this survey, with their submission date to MCD, is included, figure D-1 below.

<i>DTON Number</i>	<i>Description</i>	<i>Latitude</i>	<i>Longitude</i>	<i>Date Submitted</i>
H11916-1	Charted Wreck	40° 25’ 30.3”N	-073° 54’ 04.2”W	14 November 2008
H11916-2	Uncharted Wreck	40° 25’ 24.8”N	-073° 54’ 00.1”W	September 8, ‘08

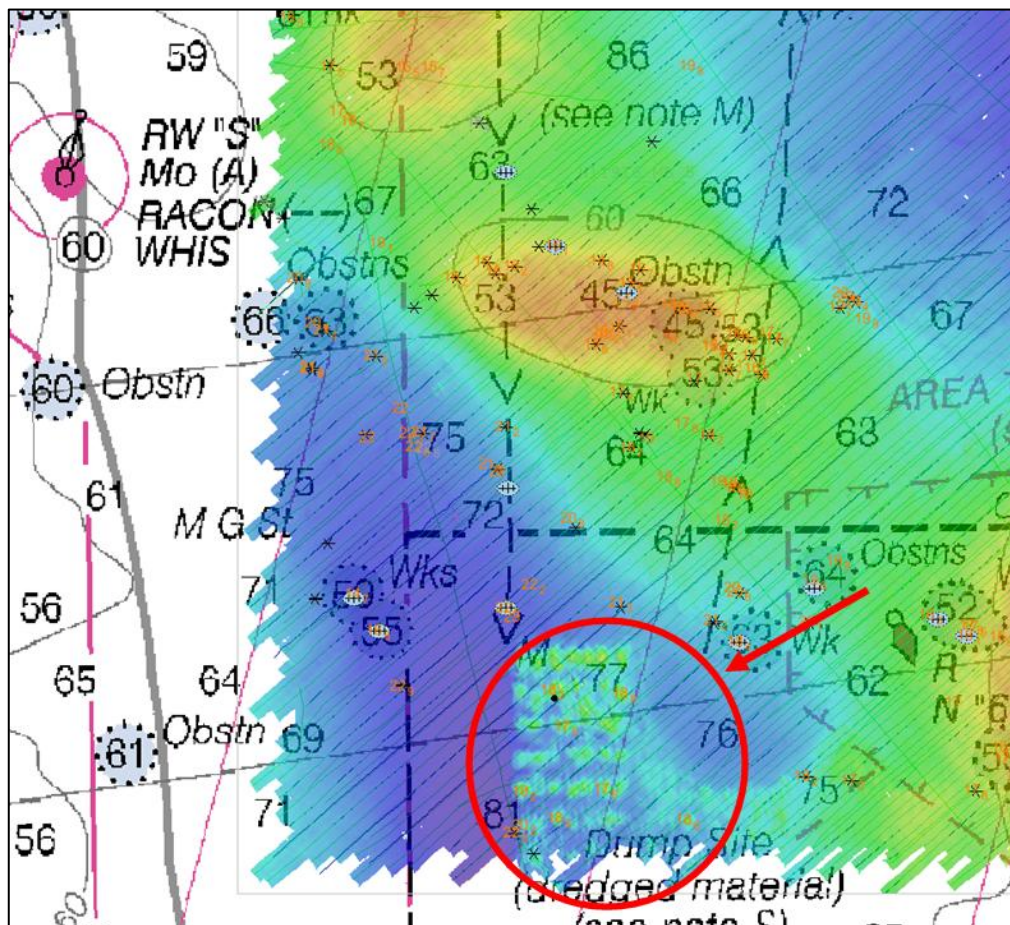
*Table D-1: DTONs reported.*

Original DR submittal date for H11916-1 was 26 August 2008, but field did not submit to MCD until date entered above.

**D 3.2 Shoals**

Significant shoaling was found near the south-west corner of the survey area. The chart describes this area as a “Dump Site (dredged material)”. The current survey shows what appears to be rows of large spoil piles some of which rise as much as 6 meters off the surrounding sea floor. This shoal area is generally a rectangle who’s northern border is at approximately: 40° 25’ 30” N, western boarder: -073° 53’ 35” W, eastern boarder: -073° 52’ 40” W and continues south of the current survey area.

Concur. For chart compilation, it was decided that sounding data in this area will be updated to reflect the new least depths of these dump piles in the charted site, instead of charting each individual obstruction. Chart soundings were updated accordingly.

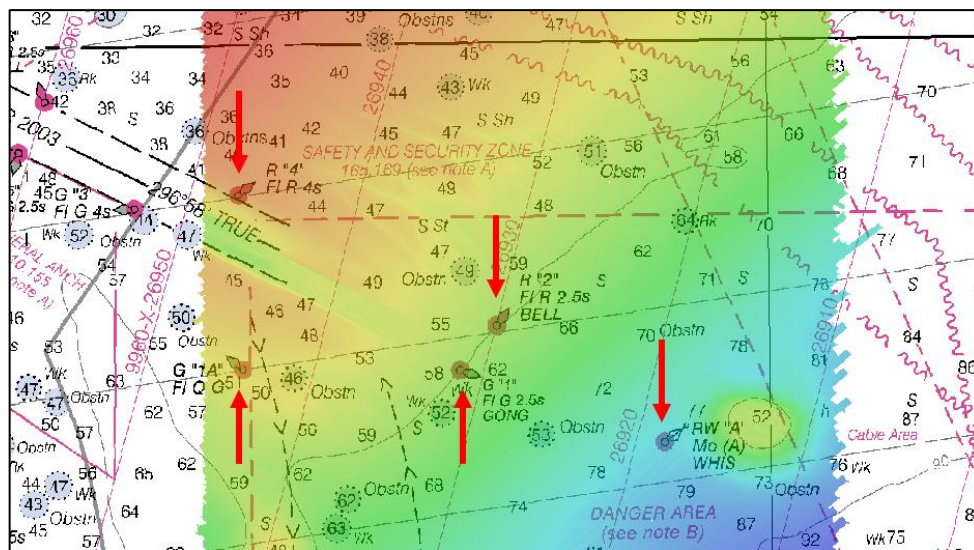


**Figure 1.** The charted dump site in the southwest corner of H11916 has numerous spoil piles, some of which were given designated soundings. While some of these piles have least depths less than 20m, sounding data should probably be charted in lieu of obstructions.

#### D.4 Aids to Navigation

There are two charted Aids to Navigation (ATON) within the revised limits of H11916. These are the Mo(A) buoy at the entrance of the Ambrose Channel and the green 'FG' (wreck) buoy on the south edge of the sheet. Both Aids to Navigation were found to be on station and serving their intended purpose. The Hydrographer has no recommendations regarding these ATONs.

*Concur.* Channel modifications to Ambrose Channel were ongoing during the period of this survey, so only 2 AtoNs were observed by the field unit. Current chart (12326) shows 7 buoys within the survey area, probably updated from recent extension of Ambrose Channel. Recommend keeping current charted buoy positions (Figure 2).



**Figure 2.** Ambrose Channel was recently extended, resulting in the repositioning and/or addition of channel buoys. *Thomas Jefferson* completed H11916 and departed the area prior to these ATON changes. Currently charted buoy positions should therefore remain unchanged.

**D.5 Coast Pilot Information**

The Hydrographer has no recommendations for changes or addenda to the Coast Pilot.

**D.6 Miscellaneous**

**Bottom Samples**

Bottom samples were collected in accordance with NOAA Hydrographic Survey Specifications and Deliverables. A complete description of all bottom samples acquired during Survey H11916 is contained in the Pydro PSS. A list of all bottom samples acquired during Survey H11916 is contained in Appendix V.

*Concur with clarification.* Bottom samples were only taken in the northern portion of the survey area. For the southern portion, bottom types were retained as charted.

**Environmental Conditions and Notes**

There were no significant environmental influences to the data.

*Concur.*

**D.8 Adequacy of Survey**

This survey is considered complete and adequate to supersede charted depths within the common area as per requirements specified in the Project Letter Instructions.

*Concur.*

**Summary and Recommendations for Additional Work**

There are no further recommendations *Concur.*

**E. APPROVAL**

As Lead Hydrographer, I have ensured that standard field surveying and processing procedures were followed in producing this examination in accordance with the Office of Coast Survey Hydrographic Surveys Division’s *Field Procedures Manual*, and NOS *Hydrographic Surveys Specifications and Deliverables*. Field operations for this basic hydrographic survey were conducted under my daily supervision with frequent checks of progress and adequacy.

All field sheets, this Descriptive Report, and all accompanying records and data are approved. All records are forwarded for final review and processing to N/CS33, Atlantic Hydrographic Branch.

Survey H11916 is adequate to supersede charted soundings in their common areas.

Listed below are supplemental reports submitted separately that contain additional information relevant to this survey:

<u>Title</u>	<u>Date Sent</u>	<u>Office</u>
Data Acquisition and Processing Report for OPR-B310-TJ-08	7 May 2008	N/CS33
Horizontal and Vertical Control Report for OPR-B310-TJ-08	n/a	N/CS33
Tides and Water Levels Package for OPR-B310-TJ-08	3 Sept 2008	N/OPS1
Coast Pilot Report for OPR-B310-TJ-08	n/a	N/CS26

Approved and Forwarded:

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LT Jasper D. Schaer, NOAA  
Field Operations Officer

---

CDR P. Tod Schattgen, NOAA  
Commanding Officer

In addition, the following individuals were also responsible for overseeing data acquisition and processing of this survey:

Survey Manager:

---

ENS Megan R Guberski  
Junior Officer, NOAA

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SST Douglas A. Wood  
Senior Survey Tech, NOAA

# H11916 DTON

**Registry Number:** H11916  
**State:** New York  
**Locality:** Approaches to New York Harbor  
**Sub-locality:** Ambrose Light  
**Project Number:** OPR-B310-TJ-08  
**Survey Date:** 06/28/2008

## Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
12327	101st	04/01/2008	1:40,000 (12327_1)	[L]NTM: ?
12326	50th	05/01/2006	1:80,000 (12326_1)	USCG LNM: 04/15/2008 (06/03/2008) CHS NTM: None (04/25/2008) NGA NTM: 05/10/2003 (06/07/2008)
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: ?
14500	27th	10/01/2002	1:1,500,000 (14500_1)	[L]NTM: ?

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

## Features

No.	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	Wreck	14.74 m	40° 25' 30.3" N	073° 54' 04.2" W	1592

## **1 - Danger To Navigation**



## 1.1) Profile/Beam - 1512/256 from h11916 / tj\_s222\_reson7125\_port / 2008-180 / 718\_1911

### DANGER TO NAVIGATION

#### Primary Feature for AWOIS Item #1592

**Search Position:** 40° 25' 30.2" N, 073° 54' 03.9" W  
**Historical Depth:** 17.98 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

#### History Notes:

FE101/51WD(FE10/51WD)--CS-326; UNCHARTED WK LOCATED IN LAT 40-25-32N, iLONG 73-54-06N; FATHOMETER SNDG OF 55 FT TAKEN IN VICINITY OF WK; HUNG AT i51 FT; CLEARED AT 49 FT; CHARTED AS 49FT WITH BASKET AND TYPE WRECK. FE129/54WD(FE8/54WD)--CS-265; 1/2-1 MILE RADIUS WIRE DRAG FROM CHARTED iPOSITION OF WK; NEGATIVE RESULTS; AREA OF WRECK SWEEPED TO 54 FT; CHART iREVISED TO SHOW 54 FT BASKET SNDG AND WRECKS (COMBINED WITH AWOIS #1588) i(ENTERED MSM 1/86) H10224/86--OPR-C121-WH-86; A SUNKEN WRECK WITH THE DIMENSIONS iOF THE RAMOS WAS DETECTED THROUGH MAIN SCHEME HYDROGRAPHY AND iSIDE SCAN SONAR; 240 FT LONG WOODEN VESSEL LAYING UPRIGHT IN 2 iSECTIONS ON A SAND AND SILT BOTTOM; FORWARD SECTION ROSE APPROXIMATELY 20 iFT ABOVE THE BOTTOM; STERN SECTION ROSE 4-6 FT ABOVE THE BOTTOM; i6 FT ANCHOR WINDLASS PROTRUDING 3-4 FT ABOVE THE DETERIORATING iDECK ON FORWARD PORTION; APPROXIMATE 55 FT BEAM; RISING 18 FT OFF iOCEAN FLOOR; BOW MOSTLY INTACT WHILE STERN IS MUCH MORE iDETERIORATED; NO EVIDENCE OF PROPULSION MACHINERY WAS FOUND; iPNEUMATIC DEPTH GAUGE LEAST DEPTH OF 59 FT TAKEN ON TOP OF ANCHOR iWINDLASS NEAR THE BOW IN LAT 40-25-29.81N, LONG 73-54-05.44W i(NAD27); DUE TO SCALE OF CHART, EVALUATOR RECOMMENDED COMBINING WITH ITEM i1588 AND CHARTING AS 59 WKS AND DELETING CHARTED SYMBOL. (UPDATED MSD i4/91) DESCRIPTION 24 NO.308; 1208 GT; SUNK 1933; OCGR REPORTED AT POS. 40-25N, 73-54W iSUBSEQUENTLY WD CLEARED TO 38 FT. POSSIBLY IN 1950(SOURCE UNK), iPOS. ACCURACY 1-3 MILES; UNK SOURCE REPORTED DEMOLISHED; POS. 40-25-27N, i73-54-06W 27 NO.197; 1205 NT, AT LAT.40-25N, LONG.75-54W. 195 LORAN C RATES PROVIDED BY MR. RICHARD TARACKA, GREENWICH, iCT. POLICE DEPARTMENT, TEL NO 203-622-8020; 9960-X 26938.2, i9960-Y 43685.0. (ENTERED MSM 4/90)

### Survey Summary

**Survey Position:** 40° 25' 30.3" N, 073° 54' 04.2" W  
**Least Depth:** 14.74 m (= 48.37 ft = 8.062 fm = 8 fm 0.37 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 1.020$  m ; TVU (TPEv)  $\pm 0.154$  m  
**Timestamp:** 2008-180.19:13:17.339 (06/28/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-180 / 718\_1911

**Profile/Beam:** 1512/256

**Charts Affected:** 12327\_1, 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

67 meter long wreck with large planks or masts resting on both sides. superstructure appears to be significantly shoal of charted sounding. Location of wreck is about 2.4 Km south-east of the RW'S' buoy and is directly in line with the approach to the Sandy Hook Channel.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-180/718_1911	1512/256	0.00	000.0	Primary
h11916/tj_3102_klein5000_sss100/2008-178/145_1937	0003	7.63	122.4	Secondary (grouped)
AWOIS_B310-TJ-08	AWOIS # 1592	7.94	288.2	Secondary (grouped)
h11916/tj_s222_klein5000_sss100/2008-168/517_2026	0002	22.32	042.1	Secondary (grouped)
h11916/tj_s222_klein5000_sss100/2008-168/517_2026	0001	26.35	041.0	Secondary (grouped)
ChartGPs - ENC US5NY1BM	Danger 27	50.90	068.4	Secondary (grouped)

### Hydrographer Recommendations

Revise 59 ft dangerous wreck to 48 foot dangerous wreck.

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

48ft (12327\_1, 12326\_1)

8fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

14.7m (5161\_1)

### S-57 Data

**Geo object 1:** Wreck (WRECKS)

**Attributes:** CATWRK - 2:dangerous wreck

VALSOU - 14.743 m

WATLEV - 3:always under water/submerged



### Feature Images

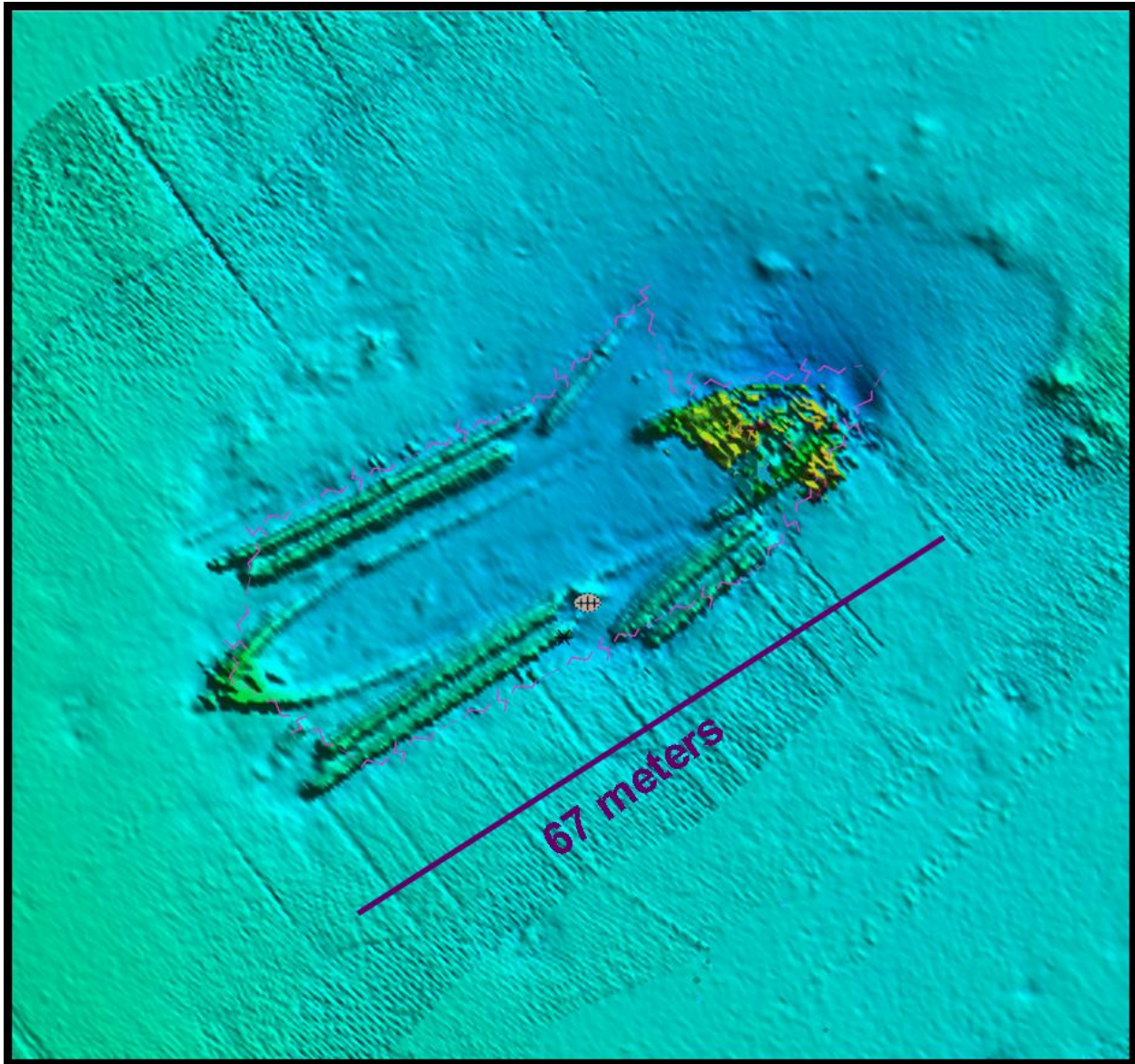


Figure 1.1.1



*Figure 1.1.2*

# H11916 DTON # 2

**Registry Number:** H11916  
**State:** New York  
**Locality:** Approaches to New York Harbor  
**Sub-locality:** Ambrose Light  
**Project Number:** OPR-B310-TJ-08  
**Survey Date:** 06/17/2008

## Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
12327	101st	04/01/2008	1:40,000 (12327_1)	[L]NTM: ?
12326	50th	05/01/2006	1:80,000 (12326_1)	USCG LNM: 04/15/2008 (06/03/2008) CHS NTM: None (04/25/2008) NGA NTM: 05/10/2003 (06/07/2008)
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: ?
14500	27th	10/01/2002	1:1,500,000 (14500_1)	[L]NTM: ?

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

## Features

No.	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	Wreck	16.77 m	40° 25' 24.8" N	073° 54' 00.1" W	1588

## **1 - Danger To Navigation**

## 1.1) Profile/Beam - 20565/4 from h11916 / tj\_s222\_reson7125\_port / 2008-169 / 516\_0328

### DANGER TO NAVIGATION

#### Primary Feature for AWOIS Item #1588

**Search Position:** 40° 25' 24.7" N, 073° 54' 00.2" W  
**Historical Depth:** 20.42 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

#### History Notes:

NM 7/53--LTD WK BUOY ESTABLISHED TO MARK WRECK OF A TUG IN 78 FT OF WATER WITH 38 FT OF WATER OVER IT; IN PA LAT 40-25-25N, LONG 73-54-01W. NM45/54--CL990/54; WK BUOY HAS BEEN DISCONTINUED; COE REPORTS A MINIMUM OF 54 FT OVER WRECK. FE129--(FE8/54WD); AREA SWEEPED TO 53-57 FT FOR 1/2 - 1 MILE RADIUS; NO INDICATION OF WK; HYDROGRAPHER RECOMMENDED CHARTING AS OBSTR SWEEPED TO 54 FT; COMBINED WITH AWOIS #1592 AND CHARTED AS WRECK, 54 FT WITH BASKET. (ENTERED MSM 6/86) H10224/86--OPR-C121-WH-86; WRECK WAS LOCATED IN LAT 40-25-24.29N, LONG 73-54-01.73W (NAD27), 191M SE OF SUNKEN WRECK RAMOS; 55-60 FT WRECK IN AT LEAST TWO SECTIONS ON A SILT BOTTOM; METAL CROWS NEST WITH METAL RUNGS COLLAPSED ON TOP OF WHEELHOUSE; STANDING 10-14 FT OFF THE BOTTOM; PART OF MAIN MAST STILL BRACED TO UPPER WHEELHOUSE; WHEELHOUSE SUPERSTRUCTURE STOOD 8-10 FT ABOVE THE MAIN DECKING; MAIN PROPULSION SHAFT, 1 1/2-2 FT IN DIAMETER, FOUND AFT OF DEBRIS AT END OF SITE; PART OF THE TRANSOM WAS INTACT WITH A SINGLE 8 FT 3-BLADE PROPELLER FOUND AT THE STERN; THREE WOODEN BEAMS CLUSTERED TOGETHER STANDING 4-5 FT OFF THE BOTTOM AT A 45 DEGREE ANGLE AT THE SOUTHERN END OF WRECK; BOW STEM STANDING 6 FT ABOVE THE BOTTOM; BOW BROKEN OFF; APPROXIMATELY 14 FT REMAIN INTACT; STEEL HULLED WITH DETERIORATED WOOD DECKING; PNEUMATIC DEPTH GAUGE LEAST DEPTH OF 67 FT; DUE TO SCALE OF CHART, EVALUATOR RECOMMENDED COMBINING WITH ITEM 1592 AND CHARTING AS 59 WKS. (UPDATED MSD 4/91) DESCRIPTION 24 NO.1025; TUG; SUNK BY MARINE CASUALTY; POSITION ACCURACY WITHIN 1 MILE; LEAST DEPTH 49 FT. (FE101)

### Survey Summary

**Survey Position:** 40° 25' 24.8" N, 073° 54' 00.1" W  
**Least Depth:** 16.77 m (= 55.02 ft = 9.169 fm = 9 fm 1.02 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 1.019$  m ; TVU (TPEv)  $\pm 0.155$  m  
**Timestamp:** 2008-169.03:54:27.490 (06/17/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-169 / 516\_0328  
**Profile/Beam:** 20565/4

**Charts Affected:** 12327\_1, 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Wreck with mast. Minimum depth significantly shoal of charted sounding. A DTON report has been submitted for AWOIS item 1592 which is 200 meters to the north-west of this contact.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-169/516_0328	20565/4	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-168/515_2243	0001	1.81	285.3	Secondary
AWOIS_B310-TJ-08	AWOIS # 1588	4.06	027.4	Secondary
ChartGPs - ENC US5NY1BM	Danger 26	44.21	054.3	Secondary (grouped)

### Hydrographer Recommendations

[None]

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

55ft (12327\_1, 12326\_1)

9fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

16.8m (5161\_1)

### S-57 Data

**Geo object 1:** Wreck (WRECKS)

**Attributes:** CATWRK - 2:dangerous wreck

VALSOU - 16.769 m

WATLEV - 3:always under water/submerged



### Feature Images

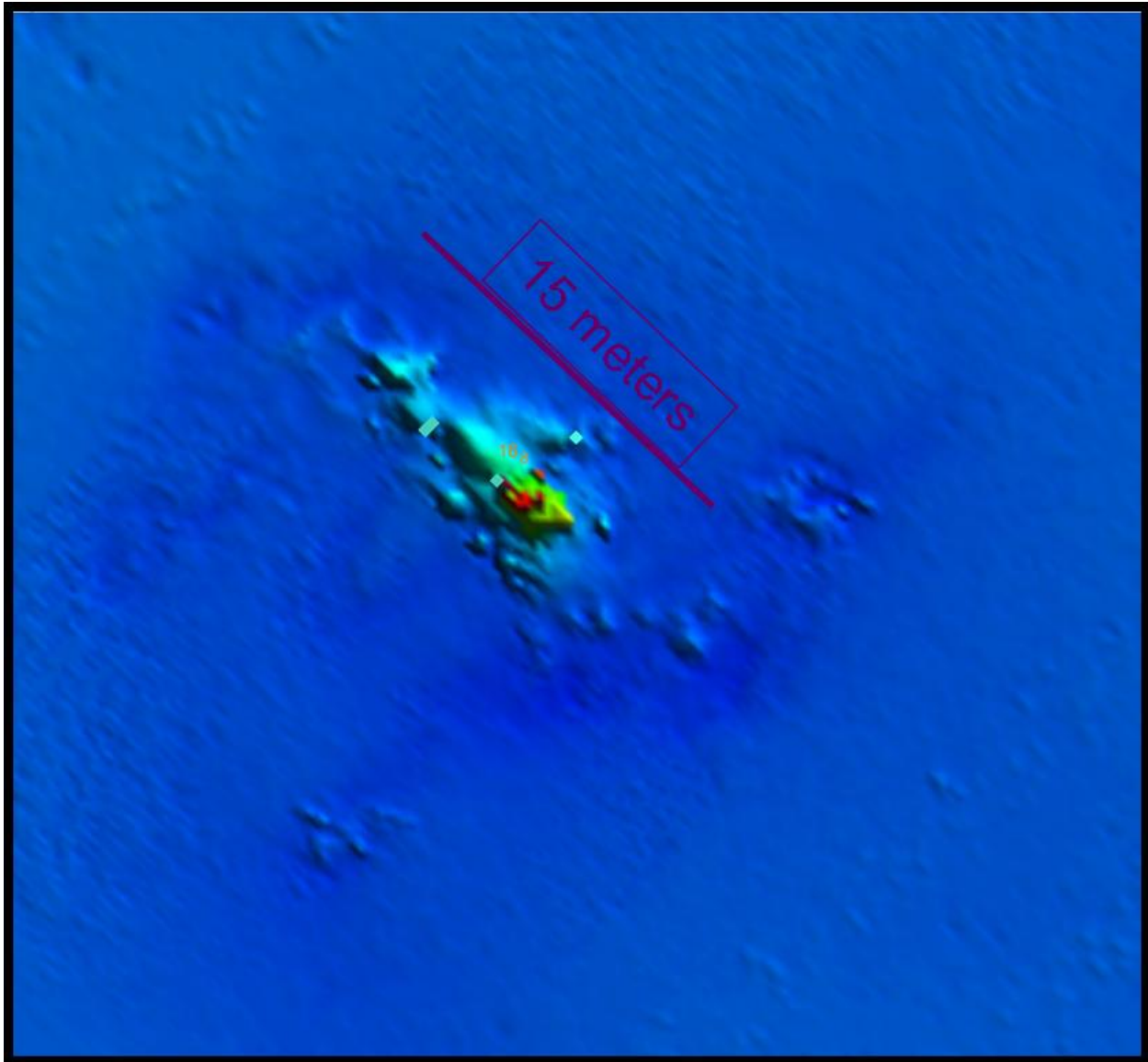
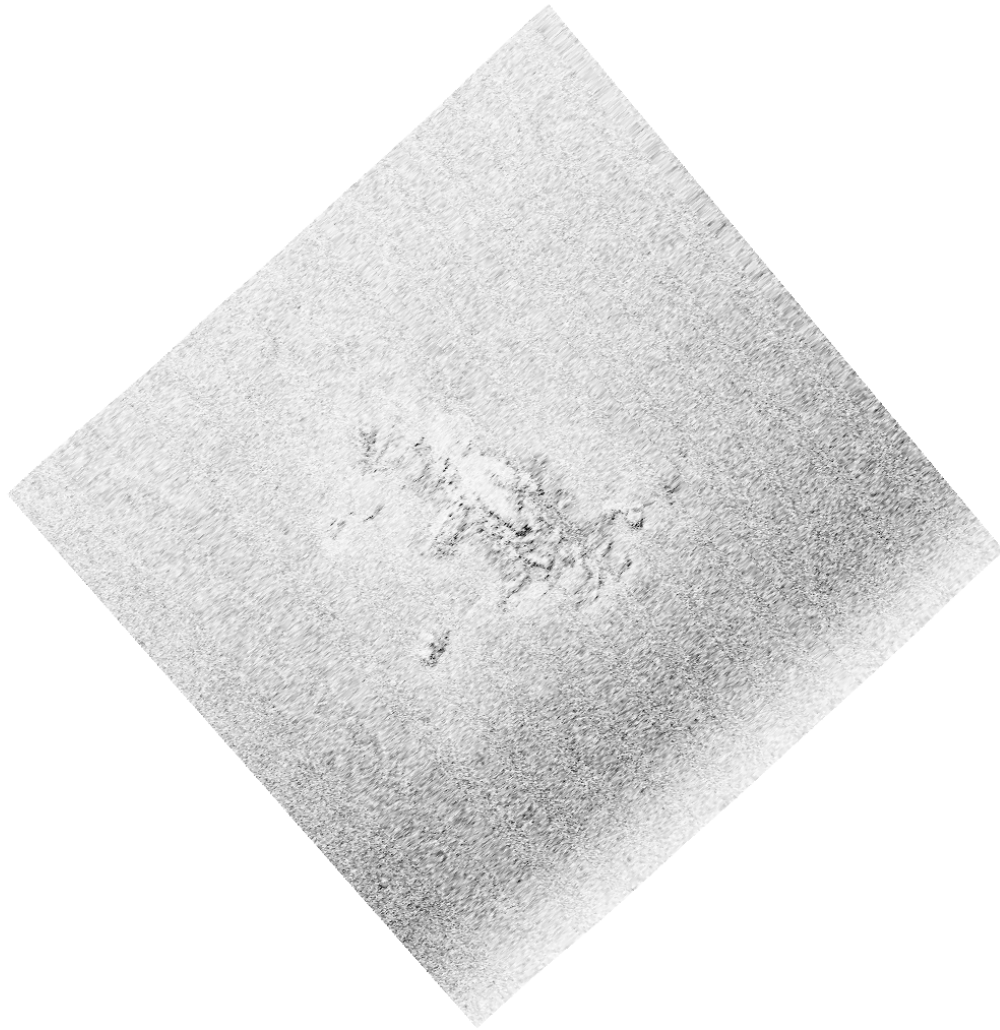


Figure 1.1.1



*Figure 1.1.2*



**Registry Number:** H11916  
**State:** New York  
**Locality:** Approaches to New York Harbor  
**Sub-locality:** Ambrose Light  
**Project Number:** OPR-B310-TJ-08  
**Survey Dates:** 06/11/2008 - 07/12/2008

### Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
12350	59th	03/01/2006	1:20,000 (12350_1)	USCG LNM: 10/28/2008 (10/21/2008) CHS NTM: None (08/29/2008) NGA NTM: 11/08/1997 (11/01/2008)
12327	101st	04/01/2008	1:40,000 (12327_1)	USCG LNM: 10/28/2008 (11/04/2008) NGA NTM: 06/17/2006 (11/15/2008)
12326	50th	05/01/2006	1:80,000 (12326_1)	USCG LNM: 10/28/2008 (10/21/2008) CHS NTM: None (08/29/2008) NGA NTM: 05/10/2003 (11/01/2008)
12300	47th	05/01/2008	1:400,000 (12300_1)	USCG LNM: 10/28/2008 (10/21/2008) CHS NTM: None (08/29/2008) NGA NTM: 05/21/2005 (11/01/2008)
13006	34th	05/01/2007	1:675,000 (13006_1)	USCG LNM: 10/28/2008 (10/21/2008) CHS NTM: 08/31/2007 (08/29/2008) NGA NTM: 08/02/2008 (11/01/2008)
5161	13th	10/01/2003	1:1,058,400 (5161_1)	[L]NTM: ?
13003	49th	04/01/2007	1:1,200,000 (13003_1)	USCG LNM: 10/28/2008 (10/21/2008) CHS NTM: 08/31/2007 (08/29/2008) NGA NTM: 08/02/2008 (11/01/2008)
14500	27th	10/01/2002	1:1,500,000 (14500_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	uncharted obstruction	Obstruction	14.74 m	40:29:21.7 N	073:52:00.8 W	---
1.2	Rocky area	Rock	10.93 m	40:31:22.0 N	073:50:34.4 W	---
1.3	Rock/Obstn 8292/88	Rock	11.42 m	40:31:17.3 N	073:50:52.5 W	---
1.4	Rocks/Obstn 104/70	Rock	10.93 m	40:31:44.6 N	073:50:27.1 W	---

1.5	Obstn 5045/6	Obstruction	10.86 m	40:31:42.2 N	073:51:02.6 W	---
1.6	Rock 81/21	Rock	9.87 m	40:31:49.2 N	073:51:33.0 W	---
1.7	uncharted rock cluster	Rock	18.73 m	40:25:51.6 N	073:53:10.3 W	---
1.8	large dredge spoil mounds	Obstruction	22.51 m	40:24:54.3 N	073:53:33.9 W	---
1.9	Obstn 2939/233	Obstruction	14.48 m	40:25:03.9 N	073:51:35.5 W	---
1.10	Spoil mound	Obstruction	17.52 m	40:25:10.1 N	073:53:23.7 W	---
1.11	Obstn - Spoil 7255/103	Obstruction	17.81 m	40:25:55.1 N	073:52:59.5 W	---
1.12	Obstn 6712/127	Obstruction	15.25 m	40:26:06.7 N	073:52:53.8 W	---
1.13	Obstn - Spoil 5010/59	Obstruction	14.80 m	40:26:19.6 N	073:53:15.6 W	---
1.14	Spoil.	Obstruction	17.48 m	40:26:49.1 N	073:54:07.8 W	---
1.15	Dump Site Obstn 1222/25	Obstruction	18.21 m	40:25:15.6 N	073:53:26.2 W	---
1.16	Rock	Rock	21.67 m	40:25:54.4 N	073:53:50.9 W	---
1.17	Obstruction	Obstruction	18.19 m	40:25:02.2 N	073:52:37.0 W	---
1.18	Small obstruction	Obstruction	17.23 m	40:25:01.5 N	073:52:27.9 W	---
1.19	Obstn 1088/233	Obstruction	19.77 m	40:26:48.5 N	073:52:57.6 W	---
1.20	Uncharted wreck	Wreck	16.13 m	40:26:21.9 N	073:53:24.5 W	---
1.21	Spoil pile	Obstruction	17.59 m	40:25:00.7 N	073:53:16.1 W	---
1.22	Spoil Pile	Obstruction	18.52 m	40:24:56.4 N	073:53:25.3 W	---
1.23	Spoil pile	Obstruction	18.17 m	40:25:00.5 N	073:53:32.0 W	---
1.24	Non-dangerous wreck	Wreck	22.30 m	40:25:50.2 N	073:50:52.5 W	---
1.25	Obstn 113/4	Obstruction	10.83 m	40:31:43.7 N	073:50:58.2 W	---
1.26	Obstn 12671/69	Obstruction	14.41 m	40:25:18.0 N	073:51:52.6 W	---
1.27	Dump Site Obstn 923/234	Obstruction	18.56 m	40:24:55.9 N	073:53:00.2 W	---
1.28	Obstn 7196/233	Obstruction	14.77 m	40:26:13.8 N	073:53:10.8 W	---
1.29	Obstn 367/254	Obstruction	16.71 m	40:26:41.0 N	073:54:03.9 W	---
1.30	8193/7	Shoal	12.75 m	40:30:10.8 N	073:52:09.6 W	---
1.31	1180/77	Shoal	12.23 m	40:30:01.4 N	073:52:52.7 W	---
1.32	2256/14	Shoal	24.13 m	40:25:34.9 N	073:50:07.0 W	---
1.33	Possible large wreck	Wreck	22.97 m	40:25:26.9 N	073:53:34.1 W	---
2.1	Charted 61ft on Rock	Rock	18.47 m	40:26:56.5 N	073:54:15.7 W	---
2.2	Charted wreck	Wreck	22.02 m	40:27:32.6 N	073:49:31.9 W	---
2.3	Wrecked barge	Wreck	15.07 m	40:26:16.2 N	073:53:10.1 W	---
2.4	Sounding	Obstruction	16.12 m	40:25:07.7 N	073:51:55.0 W	---
2.5	Spoil pile.	Obstruction	16.20 m	40:26:17.5 N	073:53:44.2 W	---
2.6	Non-dangerous wreck	Wreck	18.68 m	40:27:37.6 N	073:52:52.3 W	---
2.7	Rocks	Rock	9.79 m	40:31:47.9 N	073:52:56.7 W	---

3.1	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
3.2	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
3.3	UNKNOWN	AWOIS	[no data]	[no data]	[no data]	---
3.4	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
3.5	UNKNOWN	AWOIS	[no data]	[no data]	[no data]	---
3.6	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
3.7	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
3.8	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
3.9	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
3.10	AWOIS: 755, 4764/111	Shoal	15.26 m	40:28:38.6 N	073:52:57.8 W	755
3.11	AWOIS: 12947, 4287/124	Obstruction	13.10 m	40:30:38.2 N	073:50:37.8 W	12947
3.12	AWOIS: 4442, 8014/109	Wreck	13.47 m	40:29:45.2 N	073:52:22.9 W	4442
3.13	AWOIS: 12948, 6408/224	Wreck	13.68 m	40:30:34.6 N	073:51:03.1 W	12948
3.14	AWOIS: 7510, 10547/5	Obstruction	9.31 m	40:30:15.0 N	073:53:57.9 W	7510
3.15	AWOIS: 4298, 1180/77	Obstruction	12.23 m	40:30:01.4 N	073:52:52.7 W	4298
3.16	AWOIS: 12946, 1637/93	Rock	10.89 m	40:31:26.7 N	073:50:54.7 W	12946
3.17	AWOIS: 1609, 2061/83	Wreck	18.70 m	40:27:13.6 N	073:53:16.6 W	1609
3.18	AWOIS: 7515, 2256/14	Obstruction	24.13 m	40:25:34.9 N	073:50:07.0 W	7515
3.19	AWOIS: 7940, 13406/253	Obstruction	13.65 m	40:25:04.6 N	073:51:46.8 W	7940
3.20	AWOIS: 7938, 14410/12	Shoal	16.06 m	40:24:59.3 N	073:51:52.4 W	7938
3.21	AWOIS: 1587, 8585/26	Shoal	13.76 m	40:25:20.5 N	073:51:26.2 W	1587
3.22	AWOIS: 7928, 1609/237	Rock	17.79 m	40:24:59.8 N	073:52:03.9 W	7928
3.23	AWOIS: 1585, 4057/195	Rock	13.12 m	40:25:16.3 N	073:51:38.9 W	1585
3.24	AWOIS: 1596, 12041/7	Wreck	17.46 m	40:25:24.2 N	073:52:03.7 W	1596
3.25	AWOIS: 1595, 4624/256	Wreck	16.26 m	40:25:26.0 N	073:52:12.2 W	1595
3.26	AWOIS: 9765, 4752/255	Rock	20.90 m	40:26:10.8 N	073:54:11.4 W	9765
3.27	AWOIS: 9766, 12181/255	Obstruction	22.07 m	40:26:45.4 N	073:51:51.8 W	9766
3.28	AWOIS: 9735, 17094/51	Obstruction	20.32 m	40:27:42.3 N	073:51:45.5 W	7935
3.29	AWOIS: 9768, 7915/13	Wreck	16.96 m	40:26:02.2 N	073:52:57.8 W	9768
3.30	AWOIS: 14205, 8052/256	Obstruction	13.98 m	40:26:08.2 N	073:53:02.4 W	14205
3.31	AWOIS: 7933, 3684/219	Obstruction	13.92 m	40:25:13.1 N	073:51:34.5 W	7933
3.32	AWOIS: 4295, 3704/221	Wreck	17.18 m	40:25:38.5 N	073:51:08.1 W	4295
3.33	AWOIS: 7930, 4019/182	Wreck	19.58 m	40:25:31.4 N	073:52:34.9 W	7930
3.34	AWOIS: 701, 5134/230	Wreck	18.35 m	40:25:22.4 N	073:52:49.6 W	701
3.35	AWOIS: 1589, 5846/246	Obstruction	13.85 m	40:25:27.0 N	073:51:35.8 W	1589
3.36	AWOIS: 9705, 6718/156	Obstruction	14.46 m	40:25:35.0 N	073:51:38.1 W	9705

3.37	AWOIS: 1606, 412/160	Shoal	19.88 m	40:27:16.6 N	073:54:12.0 W	1606
3.38	AWOIS 7936: Obstn 8645/226	Obstruction	18.79 m	40:27:21.6 N	073:53:14.2 W	7936
3.39	AWOIS: 1619, 13596/13	Wreck	16.47 m	40:27:51.4 N	073:52:30.5 W	1619
3.40	AWOIS: 9737, 8916/138	Shoal	21.48 m	40:28:15.9 N	073:50:59.1 W	7937

**1 - DR\_Charted**

## 1.1) uncharted obstruction

### Survey Summary

**Survey Position:** 40:29:21.7 N, 073:52:00.8 W  
**Least Depth:** 14.74 m (= 48.35 ft = 8.058 fm = 8 fm 0.35 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.984$  m ; **TVU (TPEv)**  $\pm 0.128$  m  
**Timestamp:** 2008-169.14:50:42.845 (06/17/2008)  
**Survey Line:** h11916 / tj\_3101\_reson8125 / 2008-169 / 436\_1433  
**Profile/Beam:** 9109/111  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Small obstruction.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_3101_reson8125/2008-169/436_1433	9109/111	0.00	000.0	Primary

### Hydrographer Recommendations

[None]

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

48ft (12326\_1)  
 8fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 14.7m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 14.737 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Feature rises approx. 1m above seafloor. Recommend charting Obstrn with danger circle with least depth 48 ft.

## 1.2) Rocky area

### Survey Summary

**Survey Position:** 40:31:22.0 N, 073:50:34.4 W  
**Least Depth:** 10.93 m (= 35.85 ft = 5.976 fm = 5 fm 5.85 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.009$  m ; **TVU (TPEv)**  $\pm 0.335$  m  
**Timestamp:** 2008-176.16:06:56.731 (06/24/2008)  
**Survey Line:** h11916 / tj\_3102\_reson8101 / 2008-176 / 492\_1601  
**Profile/Beam:** 1509/5  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

#### Remarks:

Rocky area. Depth is shoal of charted sounding.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_3102_reson8101/2008-176/492_1601	1509/5	0.00	000.0	Primary
h11916/tj_3102_klein5000_sss100/2008-169/110_2037	0001	4.25	110.9	Secondary
h11916/tj_3102_reson8101/2008-176/491_1513	7358/15	62.57	070.0	Secondary (grouped)
h11916/tj_3102_klein5000_sss100/2008-169/110_2037	0003	63.75	068.3	Secondary (grouped)
h11916/tj_3102_reson8101/2008-176/494_1704	1397/46	109.05	129.1	Secondary (grouped)
h11916/tj_3102_klein5000_sss100/2008-170/111_1261	0002	111.33	130.7	Secondary (grouped)
h11916/tj_3102_reson8101/2008-176/492_1601	1687/36	144.65	068.7	Secondary (grouped)
h11916/tj_3102_klein5000_sss100/2008-170/111_1261	0004	146.06	069.7	Secondary (grouped)
h11916/tj_3102_klein5000_sss100/2008-169/110_2037	0004	149.66	068.3	Secondary (grouped)

### Hydrographer Recommendations

[None]

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

36ft (12326\_1)

6fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

10.9m (5161\_1)



## S-57 Data

**Geo object 1:** Underwater rock / awash rock (UWTROC)  
**Attributes:** QUASOU - 6:least depth known  
TECSOU - 2,3:found by side scan sonar,found by multi-beam  
VALSOU - 10.928 m  
VERDAT - 12:Mean lower low water  
WATLEV - 3:always under water/submerged

## Office Notes

Concur. Chart danger circle with least depth of 36 ft and update Obstn symbol to Obstns.

### 1.3) Rock/Obstn 8292/88

#### Survey Summary

**Survey Position:** 40:31:17.3 N, 073:50:52.5 W  
**Least Depth:** 11.42 m (= 37.45 ft = 6.242 fm = 6 fm 1.45 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.997$  m ; **TVU (TPEv)**  $\pm 0.194$  m  
**Timestamp:** 2008-176.17:57:24.941 (06/24/2008)  
**Survey Line:** h11916 / tj\_3102\_reson8101 / 2008-176 / 495\_1737  
**Profile/Beam:** 8292/88  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Rock or debris. Depth similar to chart.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_3102_reson8101/2008-176/495_1737	8292/88	0.00	000.0	Primary
h11916/tj_3102_klein5000_sss100/2008-170/111_1261	0001	1.93	358.7	Secondary
h11916/tj_3102_reson8101/2008-176/494_1704	1871/95	2.18	318.6	Secondary (grouped)
h11916/tj_3102_reson8101/2008-176/496_1803	2313/2	2.93	333.6	Secondary (grouped)

#### Hydrographer Recommendations

[None]

#### S-57 Data

**Geo object 1:** Underwater rock / awash rock (UWTROC)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 11.416 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur. Feature is approx. 1.2m high off the surrounding bottom. Chart danger circle with 37 ft least depth and Obstn symbol.

## 1.4) Rocks/Obstn 104/70

### Survey Summary

**Survey Position:** 40:31:44.6 N, 073:50:27.1 W  
**Least Depth:** 10.93 m (= 35.86 ft = 5.976 fm = 5 fm 5.86 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.991$  m ; **TVU (TPEv)**  $\pm 0.139$  m  
**Timestamp:** 2008-177.15:42:52.332 (06/25/2008)  
**Survey Line:** h11916 / tj\_3102\_reson8101 / 2008-177 / 505\_1542  
**Profile/Beam:** 104/70  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Rocky area.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_3102_reson8101/2008-177/505_1542	104/70	0.00	000.0	Primary
h11916/tj_3102_klein5000_sss100/2008-170/114_1418	0002	2.21	103.4	Secondary
h11916/tj_3102_reson8101/2008-177/503_1533	3028/7	50.27	314.4	Secondary (grouped)
h11916/tj_3102_klein5000_sss100/2008-170/115_1444	0002	100.76	113.2	Secondary (grouped)
h11916/tj_3102_reson8101/2008-177/507_1608	6931/10	102.32	111.8	Secondary (grouped)

### Hydrographer Recommendations

[None]

### S-57 Data

**Geo object 1:** Underwater rock / awash rock (UWTROC)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 10.929 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur. Chart danger circle with least depth of 36 ft.

## 1.5) Obstrn 5045/6

### Survey Summary

**Survey Position:** 40:31:42.2 N, 073:51:02.6 W  
**Least Depth:** 10.86 m (= 35.61 ft = 5.936 fm = 5 fm 5.61 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.002$  m ; **TVU (TPEv)**  $\pm 0.280$  m  
**Timestamp:** 2008-177.19:42:52.085 (06/25/2008)  
**Survey Line:** h11916 / tj\_3102\_reson8101 / 2008-177 / 517\_1930  
**Profile/Beam:** 5045/6  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Spoil pile.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_3102_reson8101/2008-177/517_1930	5045/6	0.00	000.0	Primary
h11916/tj_3102_klein5000_sss100/2008-170/117_1714	0002	3.57	174.8	Secondary

### Hydrographer Recommendations

[None]

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 10.855 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

### Office Notes

Concur. Chart danger circle with least depth of 35 ft.

## 1.6) Rock 81/21

### Survey Summary

**Survey Position:** 40:31:49.2 N, 073:51:33.0 W  
**Least Depth:** 9.87 m (= 32.37 ft = 5.395 fm = 5 fm 2.37 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.990$  m ; **TVU (TPEv)**  $\pm 0.152$  m  
**Timestamp:** 2008-178.15:40:37.886 (06/26/2008)  
**Survey Line:** h11916 / tj\_3102\_reson8101 / 2008-178 / 536\_1540  
**Profile/Beam:** 81/21  
**Charts Affected:** 12350\_1, 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

#### Remarks:

Rocky area. Minimum depth similar to chart.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_3102_reson8101/2008-178/536_1540	81/21	0.00	000.0	Primary
h11916/tj_3102_klein5000_sss100/2008-170/122_1720	0001	2.95	030.4	Secondary
h11916/tj_3102_reson8101/2008-178/535_1527	251/33	74.16	046.7	Secondary (grouped)
h11916/tj_3102_reson8101/2008-178/536_1540	368/13	149.70	055.4	Secondary (grouped)
h11916/tj_3102_klein5000_sss100/2008-170/122_1720	0003	152.86	055.2	Secondary (grouped)
h11916/tj_3102_reson8101/2008-178/534_1515	94/95	175.57	044.8	Secondary (grouped)
h11916/tj_3102_klein5000_sss100/2008-170/122_1720	0002	176.81	045.7	Secondary (grouped)

### Hydrographer Recommendations

[None]

### S-57 Data

**Geo object 1:** Underwater rock / awash rock (UWTROC)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 9.866 m  
 VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

## **Office Notes**

Concur with clarification. Update least depth and position of charted Obstn to 32 ft.



## 1.7) uncharted rock cluster

### Survey Summary

**Survey Position:** 40:25:51.6 N, 073:53:10.3 W  
**Least Depth:** 18.73 m (= 61.46 ft = 10.243 fm = 10 fm 1.46 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.020$  m ; **TVU (TPEv)**  $\pm 0.162$  m  
**Timestamp:** 2008-163.20:53:01.544 (06/11/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-163 / 984\_2042  
**Profile/Beam:** 8364/6  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

#### Remarks:

Rock cluster. Depth is shoal of charted sounding.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-163/984_2042	8364/6	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-169/513_1345	0005	9.00	140.0	Secondary
h11916/tj_s222_klein5000_sss100/2008-169/513_1345	0003	79.83	208.4	Secondary (grouped)
h11916/tj_s222_klein5000_sss100/2008-169/513_1345	0001	80.21	208.6	Secondary (grouped)
h11916/tj_s222_klein5000_sss100/2008-169/513_1345	0002	80.65	207.9	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-169/513_1342	19760/253	86.81	233.6	Secondary (grouped)
h11916/tj_s222_klein5000_sss100/2008-169/513_1345	0004	89.11	225.2	Secondary (grouped)

### Hydrographer Recommendations

[None]

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

61ft (12326\_1)

10 ¼fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

18.7m (5161\_1)

## S-57 Data

**Geo object 1:** Underwater rock / awash rock (UWTROC)  
**Attributes:** QUASOU - 6:least depth known  
TECSOU - 2,3:found by side scan sonar,found by multi-beam  
VALSOU - 18.732 m  
VERDAT - 12:Mean lower low water  
WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Not navigationally significant. Chart sounding data.

## 1.8) large dredge spoil mounds

### Survey Summary

**Survey Position:** 40:24:54.3 N, 073:53:33.9 W  
**Least Depth:** 22.51 m (= 73.86 ft = 12.311 fm = 12 fm 1.86 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.003$  m ; **TVU (TPEv)**  $\pm 0.233$  m  
**Timestamp:** 2008-163.21:21:16.925 (06/11/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-163 / 985\_2107  
**Profile/Beam:** 10375/166  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Sounding on dredge spoils. Least depth is significantly shoal of charted depth.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-163/985_2107	10375/166	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-166/445_1842	0001	4.08	118.5	Secondary (grouped)
h11916/tj_s222_klein5000_sss100/2008-166/443_1804	0001	124.61	319.3	Secondary (grouped)

### Hydrographer Recommendations

[None]

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

74ft (12326\_1)

12fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

23m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 22.514 m  
 VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

## **Office Notes**

Concur with clarification. Chart sounding data in this charted Dump Site.

## 1.9) Obstrn 2939/233

### Survey Summary

**Survey Position:** 40:25:03.9 N, 073:51:35.5 W  
**Least Depth:** 14.48 m (= 47.49 ft = 7.916 fm = 7 fm 5.49 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 1.015$  m ; TVU (TPEv)  $\pm 0.171$  m  
**Timestamp:** 2008-166.11:25:12.230 (06/14/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-166 / 426\_1122  
**Profile/Beam:** 2939/233  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Approx. 1m high obstruction located within 100-250m of charted Obstrns.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-166/426_1122	2939/233	0.00	000.0	Primary

### Hydrographer Recommendations

[None]

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

47ft (12326\_1)  
 7 <sup>3</sup>/<sub>4</sub>fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 14.5m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 14.476 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur. Recommend charting Obsn danger circle with 47 ft least depth.

## 1.10) Spoil mound

### Survey Summary

**Survey Position:** 40:25:10.1 N, 073:53:23.7 W  
**Least Depth:** 17.52 m (= 57.48 ft = 9.581 fm = 9 fm 3.48 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 1.007$  m ; TVU (TPEv)  $\pm 0.214$  m  
**Timestamp:** 2008-167.00:12:36.200 (06/15/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-167 / 501\_0010  
**Profile/Beam:** 1583/65  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Sounding on spoil pile is significantly shoal of charted depth.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-167/501_0010	1583/65	0.00	000.0	Primary

### Hydrographer Recommendations

[None]

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

57ft (12326\_1)  
 9 ½fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 17.5m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 17.521 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Chart sounding data in this charted Dump Site.



## 1.11) Obstrn - Spoil 7255/103

### Survey Summary

**Survey Position:** 40:25:55.1 N, 073:52:59.5 W  
**Least Depth:** 17.81 m (= 58.42 ft = 9.736 fm = 9 fm 4.42 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.001$  m ; **TVU (TPEv)**  $\pm 0.238$  m  
**Timestamp:** 2008-167.14:51:04.824 (06/15/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-167 / 512\_1441  
**Profile/Beam:** 7255/103  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

#### Remarks:

Sounding on spoil pile.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-167/512_1441	7255/103	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-169/511_1425	0001	116.39	297.0	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-169/510_0110	16744/256	126.73	295.5	Secondary (grouped)

### Hydrographer Recommendations

[None]

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

58ft (12326\_1)

9  $\frac{3}{4}$ fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

17.8m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 17.806 m  
 VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Chart Obstn with danger circle and least depth of 58 ft.

## Feature Images

[Image file

T:/SAR/H11916\_B310-TJ/caris/HDCS\_Data/H11916/TJ\_S222\_Klein5000\_SSS100/2008-169/511\_1425/511\_14250001\_m.tif  
does not exist.]

## 1.12) Obstrn 6712/127

### Survey Summary

**Survey Position:** 40:26:06.7 N, 073:52:53.8 W  
**Least Depth:** 15.25 m (= 50.02 ft = 8.337 fm = 8 fm 2.02 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.000$  m ; **TVU (TPEv)**  $\pm 0.242$  m  
**Timestamp:** 2008-168.22:52:01.369 (06/16/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-168 / 515\_2243  
**Profile/Beam:** 6712/127  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Obstruction found.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-168/515_2243	6712/127	0.00	000.0	Primary
h11916/tj_s222_reson7125_port/2008-168/515_2243	6698/147	5.11	021.2	Secondary (grouped)

### Hydrographer Recommendations

[None]

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

50ft (12326\_1)  
 8 ¼fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 15.2m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 15.247 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur. Chart Obstn with danger circle and least depth of 50 ft.

## Feature Images

[Image file T:/SAR/H11916\_B310-TJ/AHB\_H11916/PSS/Images/Obstns\_6712-127.jpg does not exist.]

## 1.13) Obstn - Spoil 5010/59

### Survey Summary

**Survey Position:** 40:26:19.6 N, 073:53:15.6 W  
**Least Depth:** 14.80 m (= 48.56 ft = 8.093 fm = 8 fm 0.56 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.008$  m ; **TVU (TPEv)**  $\pm 0.208$  m  
**Timestamp:** 2008-168.21:08:19.262 (06/16/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-168 / 525\_2101  
**Profile/Beam:** 5010/59  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Sounding on spoil pile.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-168/525_2101	5010/59	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-168/525_2101	0001	4.36	175.5	Secondary

### Hydrographer Recommendations

[None]

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

48ft (12326\_1)

8fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

14.8m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 14.800 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Chart danger circle with least depth of 48 ft. Change charted Obstn symbol to Obstns.

## 1.14) Spoil.

### Survey Summary

**Survey Position:** 40:26:49.1 N, 073:54:07.8 W  
**Least Depth:** 17.48 m (= 57.33 ft = 9.555 fm = 9 fm 3.33 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.009$  m ; **TVU (TPEv)**  $\pm 0.205$  m  
**Timestamp:** 2008-168.14:35:26.162 (06/16/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-168 / 549\_1404  
**Profile/Beam:** 6511/202  
**Charts Affected:** 12327\_1, 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Spoil pile. Least depth is shoal of charted contour at this location.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-168/549_1404	6511/202	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-168/549_1407	0001	14.15	139.6	Secondary

### Hydrographer Recommendations

[None]

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

57ft (12327\_1, 12326\_1)

9 ½fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

17.5m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 17.475 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur. Chart sounding data. Update contour.



## 1.15) Dump Site Obstrn 1222/25

### Survey Summary

**Survey Position:** 40:25:15.6 N, 073:53:26.2 W  
**Least Depth:** 18.21 m (= 59.74 ft = 9.956 fm = 9 fm 5.74 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 1.015$  m ; TVU (TPEv)  $\pm 0.175$  m  
**Timestamp:** 2008-178.20:56:07.346 (06/26/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-178 / 696\_2054  
**Profile/Beam:** 1222/25  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

#### Remarks:

Least depth near SSS contact. SSS contact likely to be bad data artifact. Soundings in this area are significantly shoal of chart.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-178/696_2054	1222/25	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-166/503_2019	0001	37.06	349.5	Secondary

### Hydrographer Recommendations

[None]

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

59ft (12326\_1)

10fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

18.2m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 18.208 m  
 VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Least depth is on top of spoil pile. Chart danger circle with least depth of 59 ft in this charted Dump Site. Chart Obsn symbol.

## 1.16) Rock

### Survey Summary

**Survey Position:** 40:25:54.4 N, 073:53:50.9 W  
**Least Depth:** 21.67 m (= 71.10 ft = 11.850 fm = 11 fm 5.10 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.001$  m ; **TVU (TPEv)**  $\pm 0.240$  m  
**Timestamp:** 2008-192.23:37:00.998 (07/10/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-192 / 725\_2333  
**Profile/Beam:** 2275/148  
**Charts Affected:** 12327\_1, 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

#### Remarks:

Sounding on large rock. Least depth is shoal of chart sounding.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-192/725_2333	2275/148	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-168/523_2207	0002	4.62	018.5	Secondary
h11916/tj_s222_reson7125_port/2008-163/985_2107	4779/161	57.67	083.6	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-163/985_2107	4968/73	74.34	023.5	Secondary (grouped)

### Hydrographer Recommendations

[None]

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

71ft (12327\_1, 12326\_1)

12fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

22m (5161\_1)

### S-57 Data

**Geo object 1:** Underwater rock / awash rock (UWTROC)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 21.671 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

## Office Notes

Concur. Chart sounding data.

## 1.17) Obstruction

### Survey Summary

**Survey Position:** 40:25:02.2 N, 073:52:37.0 W  
**Least Depth:** 18.19 m (= 59.68 ft = 9.947 fm = 9 fm 5.68 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.020$  m ; **TVU (TPEv)**  $\pm 0.159$  m  
**Timestamp:** 2008-166.08:53:33.448 (06/14/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-166 / 437\_0830  
**Profile/Beam:** 16869/1  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Least depth on small obstruction shoal of charted depth.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-166/437_0830	16869/1	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-166/437_1632	0003	1.26	169.1	Secondary

### Hydrographer Recommendations

[None]

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

59ft (12326\_1)  
 10fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 18.2m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 18.191 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Obstrn lies within Dump Site. Chart sounding data.

## 1.18) Small obstruction

### Survey Summary

**Survey Position:** 40:25:01.5 N, 073:52:27.9 W  
**Least Depth:** 17.23 m (= 56.52 ft = 9.419 fm = 9 fm 2.52 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.020$  m ; **TVU (TPEv)**  $\pm 0.155$  m  
**Timestamp:** 2008-170.05:45:48.890 (06/18/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-170 / 630\_0530  
**Profile/Beam:** 12888/256  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Least depth is significantly shoal of charted depth.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-170/630_0530	12888/256	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-166/435_1548	0001	5.43	133.5	Secondary

### Hydrographer Recommendations

[None]

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

56ft (12326\_1)  
 9 ¼fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 17.2m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 17.226 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Obstn lies within Dump Site. Chart sounding data.



## 1.19) Obstrn 1088/233

### Survey Summary

**Survey Position:** 40:26:48.5 N, 073:52:57.6 W  
**Least Depth:** 19.77 m (= 64.87 ft = 10.812 fm = 10 fm 4.87 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.016$  m ; **TVU (TPEv)**  $\pm 0.175$  m  
**Timestamp:** 2008-191.00:27:41.722 (07/09/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-191 / 733\_0026  
**Profile/Beam:** 1088/233  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Obstruction found.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-191/733_0026	1088/233	0.00	000.0	Primary
h11916/tj_s222_reson7125_port/2008-168/532_0157	8536/252	1.55	253.3	Secondary
h11916/tj_s222_klein5000_sss100/2008-167/531_2009	0001	7.37	287.7	Secondary (grouped)

### Hydrographer Recommendations

[None]

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

65ft (12326\_1)  
 10  $\frac{3}{4}$ fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 19.8m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 19.773 m  
 VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

## **Office Notes**

Concur with clarification. New designated sounding selected on this feature. Chart Obsn with danger circle and least depth of 65 ft.

## 1.20) Uncharted wreck

### Survey Summary

**Survey Position:** 40:26:21.9 N, 073:53:24.5 W  
**Least Depth:** 16.13 m (= 52.92 ft = 8.821 fm = 8 fm 4.92 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.016$  m ; **TVU (TPEv)**  $\pm 0.168$  m  
**Timestamp:** 2008-168.03:05:37.430 (06/16/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-168 / 528\_0237  
**Profile/Beam:** 21165/237  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Decomposed, uncharted wreck.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-168/528_0237	21165/237	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-167/529_1918	0005	1.40	056.7	Secondary

### Hydrographer Recommendations

[None]

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

53ft (12326\_1)  
 8 ¾fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 16.1m (5161\_1)

### S-57 Data

**Geo object 1:** Wreck (WRECKS)  
**Attributes:** CATWRK - 2:dangerous wreck  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 16.131 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur. Chart Wk with danger circle and least depth of 53 ft.

## Feature Images

[Image file t:/sar/h11916\_b310-tj/ahb\_h11916/pss/images/wreck\_22.jpg does not exist.]

[Image file  
t:/sar/h11916\_b310-tj/caris/hdcs\_data/h11916/tj\_s222\_klein5000\_sss100/2008-167/529\_1918/529\_19180005\_m.tif  
does not exist.]

## 1.21) Spoil pile

### Survey Summary

**Survey Position:** 40:25:00.7 N, 073:53:16.1 W  
**Least Depth:** 17.59 m (= 57.70 ft = 9.617 fm = 9 fm 3.70 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.017$  m ; **TVU (TPEv)**  $\pm 0.168$  m  
**Timestamp:** 2008-166.07:33:38.108 (06/14/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-166 / 443\_0703  
**Profile/Beam:** 18048/239  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Least depth on spoil pile is significantly shoal of charted depth.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-166/443_0703	18048/239	0.00	000.0	Primary

### Hydrographer Recommendations

[None]

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

57ft (12326\_1)  
 9 ½fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 17.6m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 17.587 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Chart sounding data in charted Dump Site.

## 1.22) Spoil Pile

### Survey Summary

**Survey Position:** 40:24:56.4 N, 073:53:25.3 W  
**Least Depth:** 18.52 m (= 60.75 ft = 10.125 fm = 10 fm 0.75 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.001$  m ; **TVU (TPEv)**  $\pm 0.241$  m  
**Timestamp:** 2008-170.01:45:07.961 (06/18/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-170 / 627\_0144  
**Profile/Beam:** 188/114  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Least depth on spoil pile is significantly shoal of charted depth.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-170/627_0144	188/114	0.00	000.0	Primary

### Hydrographer Recommendations

[None]

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

61ft (12326\_1)  
 10fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 18.5m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 18.517 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Chart sounding data in charted Dump Site.



## 1.23) Spoil pile

### Survey Summary

**Survey Position:** 40:25:00.5 N, 073:53:32.0 W  
**Least Depth:** 18.17 m (= 59.60 ft = 9.933 fm = 9 fm 5.60 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.007$  m ; **TVU (TPEv)**  $\pm 0.214$  m  
**Timestamp:** 2008-178.20:20:42.020 (06/26/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-178 / 706\_2020  
**Profile/Beam:** 344/192  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Least depth on spoil pile is significantly shoal of charted depth.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-178/706_2020	344/192	0.00	000.0	Primary

### Hydrographer Recommendations

[None]

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

59ft (12326\_1)  
 9 <sup>3</sup>/<sub>4</sub>fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 18.2m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 18.166 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Chart sounding data in charted Dump Site.

## 1.24) Non-dangerous wreck

### Survey Summary

**Survey Position:** 40:25:50.2 N, 073:50:52.5 W  
**Least Depth:** 22.30 m (= 73.15 ft = 12.191 fm = 12 fm 1.15 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.001$  m ; **TVU (TPEv)**  $\pm 0.243$  m  
**Timestamp:** 2008-166.15:05:05.557 (06/14/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-166 / 431\_1454  
**Profile/Beam:** 10019/133  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Possible decayed 67 meter long wreck.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-166/431_1454	10019/133	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-166/431_1455	0003	1.80	113.8	Secondary

### Hydrographer Recommendations

[None]

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

73ft (12326\_1)  
 12fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 22m (5161\_1)

### S-57 Data

**Geo object 1:** Wreck (WRECKS)  
**Attributes:** CATWRK - 1:non-dangerous wreck  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 22.295 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur. Chart nondangerous Wk with least depth of 73 ft.

## Feature Images

[Image file t:/sar/h11916\_b310-tj/ahb\_h11916/pss/images/wreck\_28.jpg does not exist.]

## 1.25) Obstrn 113/4

### Survey Summary

**Survey Position:** 40:31:43.7 N, 073:50:58.2 W  
**Least Depth:** 10.83 m (= 35.52 ft = 5.921 fm = 5 fm 5.52 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.012$  m ; **TVU (TPEv)**  $\pm 0.368$  m  
**Timestamp:** 2008-177.20:14:07.668 (06/25/2008)  
**Survey Line:** h11916 / tj\_3102\_reson8101 / 2008-177 / 518\_2013  
**Profile/Beam:** 113/4  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

[None]

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_3102_reson8101/2008-177/518_2013	113/4	0.00	000.0	Primary
h11916/tj_3102_klein5000_sss100/2008-170/117_1714	0003	2.24	231.7	Secondary (grouped)

### Hydrographer Recommendations

[None]

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

35ft (12326\_1)  
 5 ¾fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 10.8m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 10.828 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Found during office review. Least depth selected seems to best match the form of this feature, although from a Reson 8101 outer beam. Chart danger circle with least depth of 35ft.

## 1.26) Obstrn 12671/69

### Survey Summary

**Survey Position:** 40:25:18.0 N, 073:51:52.6 W  
**Least Depth:** 14.41 m (= 47.27 ft = 7.879 fm = 7 fm 5.27 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.006$  m ; **TVU (TPEv)**  $\pm 0.216$  m  
**Timestamp:** 2008-166.15:36:42.615 (06/14/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-166 / 433\_1519  
**Profile/Beam:** 12671/69  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

[None]

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-166/433_1519	12671/69	0.00	000.0	Primary

### Hydrographer Recommendations

[None]

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

47ft (12326\_1)  
 7 ¾fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 14.4m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 14.409 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Found during office review. Chart obstruction with danger circle and least depth of 47 ft.

## Feature Images

[Image file T:/SAR/H11916\_B310-TJ/AHB\_H11916/PSS/Images/Obstn\_12671-69.jpg does not exist.]



## 1.27) Dump Site Obstn 923/234

### Survey Summary

**Survey Position:** 40:24:55.9 N, 073:53:00.2 W  
**Least Depth:** 18.56 m (= 60.89 ft = 10.148 fm = 10 fm 0.89 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 1.016$  m ; TVU (TPEv)  $\pm 0.174$  m  
**Timestamp:** 2008-166.06:24:40.063 (06/14/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-166 / 439\_0623  
**Profile/Beam:** 923/234  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

[None]

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-166/439_0623	923/234	0.00	000.0	Primary

### Hydrographer Recommendations

[None]

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

61ft (12326\_1)  
 10fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 18.6m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 18.558 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Dump site obstruction found during office review. Chart danger circle with least depth of 61 ft and Obstn symbol.

## 1.28) Obstrn 7196/233

### Survey Summary

**Survey Position:** 40:26:13.8 N, 073:53:10.8 W  
**Least Depth:** 14.77 m (= 48.45 ft = 8.075 fm = 8 fm 0.45 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.015$  m ; **TVU (TPEv)**  $\pm 0.171$  m  
**Timestamp:** 2008-169.05:54:49.496 (06/17/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-169 / 522\_0545  
**Profile/Beam:** 7196/233  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Obstruction.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-169/522_0545	7196/233	0.00	000.0	Primary

### Hydrographer Recommendations

[None]

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

48ft (12326\_1)  
 8fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 14.8m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 14.767 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur. Chart danger circle with least depth of 48 ft. Change charted Obsn to Obsns. Obstruction next to non-dangerous wreck.

## Feature Images

[Image file T:/SAR/H11916\_B310-TJ/AHB\_H11916/PSS/Images/Obstn\_7196-233.jpg does not exist.]

## 1.29) Obstrn 367/254

### Survey Summary

**Survey Position:** 40:26:41.0 N, 073:54:03.9 W  
**Least Depth:** 16.71 m (= 54.83 ft = 9.138 fm = 9 fm 0.83 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.020$  m ; **TVU (TPEv)**  $\pm 0.156$  m  
**Timestamp:** 2008-192.19:04:39.601 (07/10/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-192 / 748\_1904  
**Profile/Beam:** 367/254  
**Charts Affected:** 12327\_1, 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

[None]

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-192/748_1904	367/254	0.00	000.0	Primary

### Hydrographer Recommendations

[None]

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

55ft (12327\_1, 12326\_1)  
 9fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 16.7m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 16.712 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Feature found during office review. Sounding on 1.7 m high (approx.) obstruction in close proximity to similar depths, but also close to new 60ft contour. Chart danger circle with least depth of 55ft and Obstn symbol.

## Feature Images

[Image file T:/SAR/H11916\_B310-TJ/AHB\_H11916/PSS/Images/Obstn\_367-254.jpg does not exist.]

**1.30) 8193/7**

**Survey Summary**

**Survey Position:** 40:30:10.8 N, 073:52:09.6 W  
**Least Depth:** 12.75 m (= 41.83 ft = 6.972 fm = 6 fm 5.83 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.990$  m ; **TVU (TPEv)**  $\pm 0.158$  m  
**Timestamp:** 2008-177.19:46:30.181 (06/25/2008)  
**Survey Line:** h11916 / tj\_3101\_reson8125 / 2008-177 / 474\_1932  
**Profile/Beam:** 8193/7  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Charted obstruction found.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11916/tj_3101_reson8125/2008-177/474_1932	8193/7	0.00	000.0	Primary

**Hydrographer Recommendations**

[None]

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

42ft (12326\_1)  
 7fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 12.8m (5161\_1)

**S-57 Data**

[None]

**Office Notes**

Concur. Revise least depth and position of charted obstruction.

**1.31) 1180/77**

**Survey Summary**

**Survey Position:** 40:30:01.4 N, 073:52:52.7 W  
**Least Depth:** 12.23 m (= 40.11 ft = 6.685 fm = 6 fm 4.11 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.992$  m ; **TVU (TPEv)**  $\pm 0.149$  m  
**Timestamp:** 2008-171.19:29:21.843 (06/19/2008)  
**Survey Line:** h11916 / tj\_3102\_reson8101 / 2008-171 / 485\_1926  
**Profile/Beam:** 1180/77  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Found during office review. Charted obstruction with least depth of 38 feet surveyed as 40 feet.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11916/tj_3102_reson8101/2008-171/485_1926	1180/77	0.00	000.0	Primary

**Hydrographer Recommendations**

[None]

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

40ft (12326\_1)  
 6 ½fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 12.2m (5161\_1)

**S-57 Data**

[None]

**Office Notes**

Concur. Update the least depth and position of charted obstruction.



**1.32) 2256/14**

**Survey Summary**

**Survey Position:** 40:25:34.9 N, 073:50:07.0 W  
**Least Depth:** 24.13 m (= 79.17 ft = 13.196 fm = 13 fm 1.17 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.019$  m ; **TVU (TPEv)**  $\pm 0.175$  m  
**Timestamp:** 2008-166.00:40:48.042 (06/14/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-166 / 419\_0036  
**Profile/Beam:** 2256/14  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

The charted 72 foot obstruction was surveyed as 79 feet.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-166/419_0036	2256/14	0.00	000.0	Primary

**Hydrographer Recommendations**

[None]

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

79ft (12326\_1)  
 13fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 24m (5161\_1)

**S-57 Data**

[None]

**Office Notes**

Concur. Insignificant. Remove obstruction from the chart. Chart sounding data.

### 1.33) Possible large wreck

#### Survey Summary

**Survey Position:** 40:25:26.9 N, 073:53:34.1 W  
**Least Depth:** 22.97 m (= 75.37 ft = 12.562 fm = 12 fm 3.37 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.002$  m ; **TVU (TPEv)**  $\pm 0.239$  m  
**Timestamp:** 2008-169.01:41:13.914 (06/17/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-169 / 510\_0110  
**Profile/Beam:** 20927/152  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Possible large (300 foot), uncharted, decomposed wreck.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-169/511_1424	3839/253	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-169/511_1424	0004	5.90	108.9	Secondary
h11916/tj_s222_reson7125_port/2008-169/510_0110	20927/152	38.54	329.2	Secondary (grouped)

#### Hydrographer Recommendations

[None]

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

- 75ft (12326\_1)
- 12fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)
- 23m (5161\_1)

#### S-57 Data

**Geo object 1:** Wreck (WRECKS)  
**Attributes:** CATWRK - 1:non-dangerous wreck  
 VALSOU - 22.974 m  
 WATLEV - 3:always under water/submerged

## Office Notes

Do not concur. Not enough evidence to suggest a wreck. Chart sounding data.

## **2 - DR\_UnCharted**

## 2.1) Charted 61ft on Rock

### Survey Summary

**Survey Position:** 40:26:56.5 N, 073:54:15.7 W  
**Least Depth:** 18.47 m (= 60.58 ft = 10.097 fm = 10 fm 0.58 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.018$  m ; **TVU (TPEv)**  $\pm 0.162$  m  
**Timestamp:** 2008-169.18:23:04.094 (06/17/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-169 / 554\_1812  
**Profile/Beam:** 9331/247  
**Charts Affected:** 12327\_1, 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Rock or obstruction, depth concurred with chart.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-169/554_1812	9331/247	0.00	000.0	Primary
ChartGPs - ENC US5NY1BM	Danger 21	6.97	175.3	Secondary (grouped)
h11916/tj_3102_klein5000_sss100/2008-178/141_1959	0002	15.02	195.2	Secondary
h11916/tj_s222_reson7125_port/2008-179/776_1705	3284/247	48.56	171.0	Secondary (grouped)
h11916/tj_3102_klein5000_sss100/2008-178/141_1959	0001	50.32	164.4	Secondary (grouped)

### Hydrographer Recommendations

[None]

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

60ft (12327\_1, 12326\_1)  
 10fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 18.5m (5161\_1)

### S-57 Data

**Geo object 1:** Underwater rock / awash rock (UWTROC)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam

VALSOU - 18.466 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

## Office Notes

Do not concur. Least depth shoal of charted sounding. Update least depth and position of charted non-dangerous rock.

## 2.2) Charted wreck

### Survey Summary

**Survey Position:** 40:27:32.6 N, 073:49:31.9 W  
**Least Depth:** 22.02 m (= 72.24 ft = 12.041 fm = 12 fm 0.24 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.021$  m ; **TVU (TPEv)**  $\pm 0.166$  m  
**Timestamp:** 2008-166.02:19:18.424 (06/14/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-166 / 446\_0219  
**Profile/Beam:** 51/2  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Charted wreck in two pieces. Least depth is shoal of charted sounding.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-166/446_0219	51/2	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-166/445_1839	0001	13.79	016.3	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-166/446_0219	78/2	14.43	033.9	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-166/445_0748	417/99	31.06	230.6	Secondary (grouped)

### Hydrographer Recommendations

[None]

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

72ft (12326\_1)  
 12fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 22m (5161\_1)

### S-57 Data

**Geo object 1:** Wreck (WRECKS)  
**Attributes:** CATWRK - 1:non-dangerous wreck  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 22.020 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

## **Office Notes**

Concur. Update least depth on nondangerous charted Wk to 72 ft.

## **Feature Images**

[Image file t:/sar/h11916\_b310-tj/ahb\_h11916/pss/images/wreck\_75.jpg does not exist.]



## 2.3) Wrecked barge

### Survey Summary

**Survey Position:** 40:26:16.2 N, 073:53:10.1 W  
**Least Depth:** 15.07 m (= 49.45 ft = 8.241 fm = 8 fm 1.45 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.017$  m ; **TVU (TPEv)**  $\pm 0.165$  m  
**Timestamp:** 2008-168.22:30:07.897 (06/16/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-168 / 523\_2204  
**Profile/Beam:** 19007/15  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Sunken barge. Rises to less than 1 meter above surrounding sea bed.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-168/523_2204	19007/15	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-168/523_2207	0001	4.75	254.8	Secondary
h11916/tj_s222_klein5000_sss100/2008-168/523_2207	0004	47.44	023.2	Secondary

### Hydrographer Recommendations

[None]

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

49ft (12326\_1)

8 ¼fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

15.1m (5161\_1)

### S-57 Data

**Geo object 1:** Wreck (WRECKS)  
**Attributes:** CATWRK - 2:dangerous wreck  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 15.072 m  
 VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

## **Office Notes**

Concur. Chart Wk and danger circle with least depth of 49 ft.

## **Feature Images**

[Image file t:/sar/h11916\_b310-tj/ahb\_h11916/pss/images/wreck\_20.jpg does not exist.]

## 2.4) Sounding

### Survey Summary

**Survey Position:** 40:25:07.7 N, 073:51:55.0 W  
**Least Depth:** 16.12 m (= 52.89 ft = 8.815 fm = 8 fm 4.89 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.004$  m ; **TVU (TPEv)**  $\pm 0.224$  m  
**Timestamp:** 2008-170.11:02:00.946 (06/18/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-170 / 613\_1051  
**Profile/Beam:** 9296/178  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Measured depth over this obstruction is significantly shoal of charted sounding.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-170/613_1051	9296/178	0.00	000.0	Primary
h11916/tj_s222_reson7125_port/2008-166/430_2246	2378/231	88.19	016.6	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-170/613_1051	9665/242	92.28	059.8	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-170/613_1051	9794/88	123.84	045.8	Secondary (grouped)

### Hydrographer Recommendations

[None]

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

53ft (12326\_1)  
 8 ¾fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)  
 16.1m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 16.120 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

## **Office Notes**

Concur with clarification. Update least depth and position of charted obstruction.

## 2.5) Spoil pile.

### Survey Summary

**Survey Position:** 40:26:17.5 N, 073:53:44.2 W  
**Least Depth:** 16.20 m (= 53.16 ft = 8.860 fm = 8 fm 5.16 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.009$  m ; **TVU (TPEv)**  $\pm 0.202$  m  
**Timestamp:** 2008-191.00:33:51.745 (07/09/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-191 / 733\_0026  
**Profile/Beam:** 5651/53  
**Charts Affected:** 12327\_1, 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Least depth on spoil pile is shoal of 60 foot contour at this location.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-191/733_0026	5651/53	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-167/531_2009	0004	4.76	291.5	Secondary

### Hydrographer Recommendations

[None]

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

53ft (12327\_1, 12326\_1)

8 ¾fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

16.2m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 16.204 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur. Chart sounding data.

## 2.6) Non-dangerous wreck

### Survey Summary

**Survey Position:** 40:27:37.6 N, 073:52:52.3 W  
**Least Depth:** 18.68 m (= 61.27 ft = 10.212 fm = 10 fm 1.27 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.017$  m ; **TVU (TPEv)**  $\pm 0.169$  m  
**Timestamp:** 2008-179.20:27:45.906 (06/27/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-179 / 772\_2016  
**Profile/Beam:** 11235/18  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Decayed wreck.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-179/772_2016	11235/18	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-168/549_1406	0004	14.38	133.5	Secondary

### Hydrographer Recommendations

[None]

### S-57 Data

**Geo object 1:** Wreck (WRECKS)  
**Attributes:** CATWRK - 1:non-dangerous wreck  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 18.676 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

### Office Notes

Concur. Chart dangerous wreck.

## Feature Images

[Image file t:/sar/h11916\_b310-tj/ahb\_h11916/pss/images/wreck\_3.jpg does not exist.]



## 2.7) Rocks

### Survey Summary

**Survey Position:** 40:31:47.9 N, 073:52:56.7 W  
**Least Depth:** 9.79 m (= 32.12 ft = 5.353 fm = 5 fm 2.12 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.985$  m ; **TVU (TPEv)**  $\pm 0.134$  m  
**Timestamp:** 2008-194.19:23:06.439 (07/12/2008)  
**Survey Line:** h11916 / tj\_3101\_reson8125 / 2008-194 / 256\_1913  
**Profile/Beam:** 8366/229  
**Charts Affected:** 12350\_1, 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Rocks. Least depth is shoal of charted depth in this area.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_3101_reson8125/2008-194/256_1913	8366/229	0.00	000.0	Primary
h11916/tj_3102_klein5000_sss100/2008-170/130_1912	0001	5.73	052.5	Secondary

### Hydrographer Recommendations

[None]

### S-57 Data

**Geo object 1:** Underwater rock / awash rock (UWTROC)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 9.789 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

### Office Notes

Concur. Chart Rk with danger circle and least depth of 32 ft.

## **Feature Images**

[Image file T:/SAR/H11916\_B310-TJ/AHB\_H11916/PSS/Images/Rocks\_8366-229.jpg does not exist.]

**3 - DR\_AWOIS**

### 3.1) AWOIS #754 - OBSTRUCTION

#### No Primary Survey Feature for this AWOIS Item

**Search Position:** 40:27:06.2 N, 073:53:43.3 W  
**Historical Depth:** 13.41 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

FE101/51(F.E. NO. 10, 1951)--WHILE INVESTIGATING WK BD 1738 (AWOIS NO.1619) i■AN UNCHARTED SHOAL WITH LEAST DEPTHS OF 44 TO 45 FEET WAS FOUND IN LAT. i■40-27-12N, LONG. 73-53-42W. SHOAL IS PROBABLY THE RESULT OF DUMPING BY SCOWS i■AND DREDGES. 44.5 FEET CLEARED SHOAL AREA. SOUNDING, CLEARED 44 FT. CHARTED i■IN LISTED POSITION.■ H10224/86--OPR-C121-WH-86;ITEM WAS DEVELOPED AND FOUND TO BE A i■SHOAL WITH AN ECHO SOUNDER LEAST DEPTH OF 48 FT IN LAT i■40-27-05.78N, LONG 73-53-44.78W (NAD27); NO EVIDENCE ANY i■REMAINDER OF WRECK WHICH WAS REMOVED; EVALUATOR RECOMMENDED THAT THE i■CHARTED WIRE DRAG DEPTH OF 44 FT BE REMOVED AND THE AREA BE i■CHARTED AS SHOWN ON PRESENT SURVEY. (UPDATED MSD 4/91)■■■ DESCRIPTION■ \*\*\*\* WK SUNK AND REPORTED REMOVED NEAR THIS POSITION IN 1925. REF. AWOIS i■ITEM NO. 1605.

### Survey Summary

**Charts Affected:** 12327\_1, 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Nothing found in the MBES or SSS record within this AWOIS search area.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AWOIS_B310-TJ-08	AWOIS # 754	0.00	000.0	Primary

### Hydrographer Recommendations

[None]

### S-57 Data

[None]

## Office Notes

Concur. AWOIS 754 search radius covered with 100% SSS and Complete MBES. Chart sounding data.

### 3.2) AWOIS #1594 - OBSTRUCTION

#### No Primary Survey Feature for this AWOIS Item

**Search Position:** 40:25:41.6 N, 073:51:49.5 W  
**Historical Depth:** 16.15 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

FE101/51WD(FE10/51WD)--CS326; WHILE SEARCHING FOR WK OF PENTLAND FIRTH (AWOIS ITEM 1595) AN OBSTR WAS LOCATED IN LAT 40-25-39N, LONG 73-51-56W; HUNG AT 47 FT; CLEARED BY 46 FT; IRREGULAR BOTTOM; EXTENSIVE DUMPING BY SCOWS AND DREDGES IN THE VICINITY; IT IS NOT KNOWN IF OBSTR IS RESULT OF DUMPING OR REMAINS OF THE WRECK; CHARTED AS BASKET SOUNDING 46 FT WITH TYPE OBSTR. (ENTERED MSM 12/85)  
 H10224/86-88--OPR-C121-WH-86-88; 200% SIDE SCAN SONAR COVERAGE OF 300M RADIUS IN 1986; 9 CONTACTS WHICH WERE DETERMINED TO BE ISOLATED AREAS OF ROCK OR RUBBLE WITH NO SIGNIFICANT HEIGHTS ABOVE THE BOTTOM; ONE CONTACT, 150M ENE OF ITEM POSITION, IN LAT 40-25-41.13N, LONG 73-51-51.09W (NAD27) WAS ASSIGNED FOR FURTHER DEVELOPMENT IN 1988; 52.5 FT SOUNDING FOUND DURING STAR PATTERN DEVELOPMENT IN LAT 40-25-41.25N, LONG 73-51-50.98W (NAD27); EVALUATOR RECOMMENDED CHARTING A 53 OBSTR AT THIS POSITION AND CHART SOUNDINGS AS SHOWN ON THE PRESENT SURVEY. (UPDATED MSD 4/91) H10683/96-- OPR-C399=RU; SIDE SCAN SONAR AND MULTIBEAM SEARCHES NEGATIVE. EVALUATOR RECOMMENDS DELETING DESCRIPTION 24 NO.600; POS. ACCURACY WITHIN 1 MILE; WD CLEARED TO 46 FT. REPORTED THROUGH H.O. CHART RECORDS, DATED 1950 SURVEY REQUIREMENTS FULL--VERIFY OR DISPROVE THROUGH 200% SIDE SCAN SONAR INVESTIGATION (300 M MINIMUM RADIUS). IF FOUND, POSITION AND CONSTANT TENSION WIRE DRAG OR DIVER LEAST DEPTH ARE REQUIRED. ASSIGNED: OPR-C121-WH-86

### Survey Summary

**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Nothing found in the MBES or SSS record within this AWOIS search area.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AWOIS_B310-TJ-08	AWOIS # 1594	0.00	000.0	Primary

## Hydrographer Recommendations

[None]

### S-57 Data

[None]

### Office Notes

Concur. AWOIS 1594 search radius covered with 100% SSS and Complete MBES. Chart sounding data.

### 3.3) AWOIS #1605 - UNKNOWN

#### No Primary Survey Feature for this AWOIS Item

**Search Position:** 40:27:10.4 N, 073:53:38.5 W  
**Historical Depth:** [None]  
**Search Radius:** 0  
**Search Technique:** [None]  
**Technique Notes:** [None]

**History Notes:**

NM33/25--BUOY ESTABLISHED TO MARK WK OF A MUDSCOW; WK COVERED BY 57 FEET OF ■OF WATER. ■ NM35/25--BUOY DISCONTINUED; WK REMOVED; WK DELETED FROM CHART. ■■ DESCRIPTION ■ 24 NO.1357, BARGE; SUNK 1925; POSITION ACCURACY WITHIN 1 MILE, 40-27-12N, ■ 73-53-35W ■ \*\*\*\* SEE AWOIS ITEM NO. 0075

#### Survey Summary

**Charts Affected:** 12327\_1, 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Nothing found in the MBES or SSS record within this AWOIS search area.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
AWOIS_B310-TJ-08	AWOIS # 1605	0.00	000.0	Primary

#### Hydrographer Recommendations

[None]

#### S-57 Data

[None]

#### Office Notes

Concur. AWOIS 1605 covered with 100% SSS and Complete MBES. Chart sounding data.



### 3.4) AWOIS #13766 - OBSTRUCTION

#### No Primary Survey Feature for this AWOIS Item

**Search Position:** 40:27:27.5 N, 073:50:03.1 W  
**Historical Depth:** 22.39 m  
**Search Radius:** 0  
**Search Technique:** [None]  
**Technique Notes:** [None]

**History Notes:**

S00003/03 -- S-B601-RU-02/03 HLS; ■Survey Position: 040° 27' 27.471" N, 73° 50' 03.050" W ■Least Depth: 22.39 m ■Timestamp: 2003-153.21:05:48.537 (06/02/2003) ■Survey Line: b601 / ru00\_mb / 2003-153 / 802\_2104 ■Profile/Beam: 454/125 ■Charts Affected: 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1 ■Remarks: Obstruction investigated with SWMB - a pipe or piling ■Note that the SWMB data indicate another such pipe 50 m SE of this contact with least depth of 79 ft that the ■hydrographer considers insignificant due to surrounding charted depths. ■Updated 9/14/2006 JCM

### Survey Summary

**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Side scan sonar Line 503\_2017 shows what appears to be a long shadow. Line 505\_2110 which covers the same spot shows what is likely to be an underwater cable or pipe lying on the sea bed. No obstruction can be seen in the MBES record.

No significant obstruction found.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AWOIS_B310-TJ-08	AWOIS # 13766	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-166/503_2017	0001	94.98	228.9	Secondary (grouped)

### Hydrographer Recommendations

[None]

## **S-57 Data**

[None]

## **Office Notes**

Concur. AWOIS 13766 covered with 100% SSS and Complete MBES. Chart sounding data. Remove Obstn from chart.

### 3.5) AWOIS #7786 - UNKNOWN

#### No Primary Survey Feature for this AWOIS Item

**Search Position:** 40:27:59.5 N, 073:52:29.7 W  
**Historical Depth:** [None]  
**Search Radius:** 1000  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

[None]

#### Survey Summary

**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Unsure of what to do with this AWOIS item. There is no supporting information included with this AWOIS report.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
AWOIS_B310-TJ-08	AWOIS # 7786	0.00	000.0	Primary

#### Hydrographer Recommendations

[None]

#### S-57 Data

[None]

#### Office Notes

Concur with field assessment. No supporting AWOIS database information available for comparison. AWOIS 7786 search conducted with 100% SSS and Complete MBES. Chart sounding data.

### 3.6) AWOIS #7923 - OBSTRUCTION

#### No Primary Survey Feature for this AWOIS Item

**Search Position:** 40:28:57.1 N, 073:50:40.4 W  
**Historical Depth:** 19.81 m  
**Search Radius:** 50  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

H10224/86--OPR-C121-WH-86; AN OBSTRUCTION, A CONCRETE BEAM, WITH A PNEUMATIC DEPTH GAUGE LEAST DEPTH OF 65 FT WAS FOUND IN LAT 40-28-56.76N, LONG 73-50-41.97W (NAD27); SINCE THIS IS 37M APART FROM ITEM 7924, AND CONSIDERING THE CHART SCALE, THE EVALUATOR RECOMMENDED NOT CHARTING THIS ITEM. (ENTERED MSD 4/91)

#### Survey Summary

**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Side scan and multi beam data show no significant contact within this AWOIS circle.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
AWOIS_B310-TJ-08	AWOIS # 7923	0.00	000.0	Primary

#### Hydrographer Recommendations

[None]

#### S-57 Data

[None]

#### Office Notes

Concur. AWOIS 7923 search conducted with 100% SSS and Complete MBES. Chart sounding data.

### 3.7) AWOIS #7924 - OBSTRUCTION

#### No Primary Survey Feature for this AWOIS Item

**Search Position:** 40:28:56.4 N, 073:50:39.2 W  
**Historical Depth:** 19.51 m  
**Search Radius:** 50  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

H10224/86--OPR-C121-WH-86; AN OBSTRUCTION, A ROCK, WITH A PNEUMATIC DEPTH GAUGE LEAST DEPTH OF 64 FT, WAS FOUND IN LAT 40-28-56.04N, LONG 73-50-40.69W (NAD27); 37M FROM ITEM 7923; EVALUATOR RECOMMENDED CHARTING A 64 RK AS SHOWN ON PRESENT SURVEY. (ENTERED MSD 4/91)

#### Survey Summary

**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Side scan and multi beam data show no significant contact within this AWOIS circle.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
AWOIS_B310-TJ-08	AWOIS # 7924	0.00	000.0	Primary

#### Hydrographer Recommendations

[None]

#### S-57 Data

[None]

#### Office Notes

Concur. AWOIS 7924 (Charted Rk) search radius covered with 100% SSS and Complete MBES. Chart sounding data. Remove danger circle and Rk symbol from chart.

### 3.8) AWOIS #4297 - OBSTRUCTION

#### No Primary Survey Feature for this AWOIS Item

**Search Position:** 40:29:20.4 N, 073:51:20.9 W  
**Historical Depth:** 15.54 m  
**Search Radius:** 50  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

HISTORY ■ FE215/76WD(FE1/76WD)--HANG 5; DIVER INVESTIGATION OF HANG IN LAT  
 i ■ 40-29-20.4N, LONG 73-51-22.2W REVEALED A LARGE OLD STYLE STOCK ANCHOR; i ■ DIVER  
 GUAGE LEAST DEPTH OF 47 FT; CLEARED BY 44 FT. (ENTERED MSM 1/86) ■  
 H10224/86--OPR-C121-WH-86; AN ANCHOR WAS LOCATED IN LAT 40-29-20.04N, i ■ LONG 73-51-22.41W  
 (NAD27) WITH A PNEUMATIC DEPTH GAUGE LEAST DEPTH OF 51 i ■ FT; AN OLD STYLE STOCK  
 ANCHOR, 95% EXPOSED, LAYING IN A i ■ NORTH-SOUTH DIRECTION WITH THE TIP OF ONE FLUKE  
 BURIED 8-10 i ■ INCHES IN THE SAND; THE ANCHOR CROWN WAS PERPENDICULAR TO THE  
 i ■ OCEAN BOTTOM, 6FT 6IN FROM SAND BOTTOM TO UPPER FLUKE; SHANK i ■ LENGTH OF 11FT,  
 STOCK LENGH 9FT 5IN, CROWN LENGTH 8FT 6IN; i ■ EVALUATOR RECOMMENDED THAT CHARTED  
 SYMBOL BE REVISED TO 51 i ■ OBSTN IN POSITION DETERMINED BY PRESENT SURVEY. (UPDATED  
 MSD i ■ 4/91) ■ H10668/97-- OPR-C399-RU; 200% SIDE SCAN SONAR SEARCH LOCATED ONE  
 SIGNIFICANT CONTACT WITH LITTLE HEIGHT. EVALUATOR RECOMMENDS RETAINING. (UP  
 12/22/04, SJV)

### Survey Summary

**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Nothing found in the MBES or SSS record within this AWOIS search area.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
AWOIS_B310-TJ-08	AWOIS # 4297	0.00	000.0	Primary

### Hydrographer Recommendations

[None]

## **S-57 Data**

[None]

## **Office Notes**

Concur. AWOIS 4297 search conducted with 100% SSS and Complete MBES. Chart sounding data. Remove danger circle and Obsn symbol from chart.

### 3.9) AWOIS #14204 - OBSTRUCTION

#### No Primary Survey Feature for this AWOIS Item

**Search Position:** 40:28:40.5 N, 073:52:16.6 W  
**Historical Depth:** [None]  
**Search Radius:** 50  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

Unknown charting source. Submerged obstruction with least depth of 49 feet.

#### Survey Summary

**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Nothing found in the MBES or SSS record within this AWOIS search area.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
AWOIS_B310-TJ-08	AWOIS # 14204	0.00	000.0	Primary

#### Hydrographer Recommendations

[None]

#### S-57 Data

[None]

#### Office Notes

Concur. AWOIS 14204 search conducted with 100% SSS and Complete MBES. Chart sounding data. Remove danger circle and Obsn symbol from chart.



### 3.10) AWOIS: 755, 4764/111

#### Primary Feature for AWOIS Item #755

**Search Position:** 40:28:38.4 N, 073:53:11.5 W  
**Historical Depth:** 12.80 m  
**Search Radius:** 50  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

CL776/50--SPECIAL REPORT ON WRECK OF FORT VICTORIA, ITEM 2 OF SUPPLEMENTAL INSTRUCTIONS CS-326. DATED 26 JULY, 1950. OBSTRUCTION LOCATED; PRELIMINARY INFO. FE101/51(F.E. NO. 10, 1951)--WHILE SEARCHING FOR THE FORT VICTORIA (SEE AWOIS NO. 01626) AN OBSTRUCTION WAS HUNG AT AN EFFECTIVE DEPTH OF 43.0 FT. CLEARED TO AN EFFECTIVE DEPTH OF 42.0 FT. (PREDICTED TIDES). IN POS. LAT. 40-28-38N, LONG. 73-53-13W. OBSTRUCTION, CLEARED BY 42 FT. CHARTED IN LISTED POSITION. H10224/86--OPR-C121-WH-86; AREA WAS DEVELOPED WITH NEGATIVE RESULTS; DIVER INVESTIGATION FOUND THAT THE AREA CONSISTS OF DEBRIS THAT PROTRUDES NO MORE THAN 2 1/2 FT ABOVE THE BOTTOM; PRESENT SURVEY DEPTHS IN AREA ARE 48-50 FT; EVALUATOR RECOMMENDED DELETING CHARTED SYMBOL AND CHARTING AREA AS SHOWN ON PRESENT SURVEY. (UPDATED MSD 4/91)

#### Survey Summary

**Survey Position:** 40:28:38.6 N, 073:52:57.8 W  
**Least Depth:** 15.26 m (= 50.07 ft = 8.345 fm = 8 fm 2.07 ft)  
**TPU (±1.96σ):** THU (TPEh) ±0.984 m ; TVU (TPEv) ±0.130 m  
**Timestamp:** 2008-169.18:52:09.507 (06/17/2008)  
**Survey Line:** h11916 / tj\_3101\_reson8125 / 2008-169 / 429\_1843  
**Profile/Beam:** 4764/111  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Sounding outside of channel. No signs of wreckage were found in this area by the MBES data. There has been considerable recent dredging.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_3101_reson8125/2008-169/429_1843	4764/111	0.00	000.0	Primary

AWOIS_B310-TJ-08	AWOIS # 755	323.74	088.9	Secondary (grouped)
h11916/tj_3102_klein5000_sss100/2008-168/150_1750	0002	466.34	113.3	Secondary (grouped)

## Hydrographer Recommendations

[None]

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

50ft (12326\_1)

8 ¼fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

15.3m (5161\_1)

## S-57 Data

[None]

## Office Notes

Concur. AWOIS 755 search radius covered with 100% SSS and Complete MBES. Chart sounding data.

### 3.11) AWOIS: 12947, 4287/124

#### Primary Feature for AWOIS Item #12947

**Search Position:** 40:30:38.3 N, 073:50:37.9 W  
**Historical Depth:** 12.80 m  
**Search Radius:** 50  
**Search Technique:** S2, MB  
**Technique Notes:** [None]

#### History Notes:

H10668/97-- OPR-C399-RU; UNCHARTED OBSTRUCTION LOCATED BY SIDE SCAN SONAR. SWMB LD OF 12.8 METERS (42 FEET) IN LAT. 40-30-38.27N, LONG. 73-50-37.93W. EVALUATOR RECOMMENDS CHARTING A 42 OBSTN AS SURVEYED. (ENT 12/22/04, SJV)

#### Survey Summary

**Survey Position:** 40:30:38.2 N, 073:50:37.8 W  
**Least Depth:** 13.10 m (= 42.99 ft = 7.165 fm = 7 fm 0.99 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPE<sub>h</sub>)**  $\pm 0.983$  m ; **TVU (TPE<sub>v</sub>)**  $\pm 0.122$  m  
**Timestamp:** 2008-171.19:49:45.517 (06/19/2008)  
**Survey Line:** h11916 / tj\_3101\_reson8125 / 2008-171 / 458\_1941  
**Profile/Beam:** 4287/124  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

#### Remarks:

Obstruction. Least depth compares well with chart.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_3101_reson8125/2008-171/458_1941	4287/124	0.00	000.0	Primary
h11916/tj_3102_klein5000_sss100/2008-169/101_1553	0002	3.45	038.0	Secondary (grouped)
AWOIS_B310-TJ-08	AWOIS # 12947	3.55	118.2	Secondary (grouped)

## Hydrographer Recommendations

[None]

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

43ft (12326\_1)

7fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

13.1m (5161\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
TECSOU - 2,3:found by side scan sonar,found by multi-beam  
VALSOU - 13.103 m  
VERDAT - 12:Mean lower low water  
WATLEV - 3:always under water/submerged

### Office Notes

Concur with clarification. Update least depth and position of charted obstruction.

**3.12) AWOIS: 4442, 8014/109****Primary Feature for AWOIS Item #4442**

**Search Position:** 40:29:45.2 N, 073:52:23.0 W  
**Historical Depth:** 13.11 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

FE215/76WD(FE1/76WD)--OPR-515; HANG NO 16; PROBABLY WRECKAGE OF USS TURNER; ■DIVED ON BY COE 7/3/75 SO NOT INVESTIGATED BY RU/HE; CLEARED BY 40 FT. ■(ENTERED MSM 6/86)■ H10668/97-- OPR-C399-RU; 200% SIDE SCAN SONAR SEARCH LOCATED AN OBSTRUCTION WITH A SWMB LD OF 43 FEET IN LAT. 40-29-45.179N, LONG. 73-52-23.027W. EVALUATOR RECOMMENDS DELETING CHARTED WRECK CLEARED BY WIRE DRAG TO 40 FEET AND CHARTING A 43 OBSTN AS SURVEYED. (UP 12/22/04,SJV)■ ■ DESCRIPTION■ \*\*\*\* REF AWOIS ITEM 1641.

**Survey Summary**

**Survey Position:** 40:29:45.2 N, 073:52:22.9 W  
**Least Depth:** 13.47 m (= 44.19 ft = 7.364 fm = 7 fm 2.19 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 0.983$  m ; TVU (TPEv)  $\pm 0.124$  m  
**Timestamp:** 2008-176.13:51:17.138 (06/24/2008)  
**Survey Line:** h11916 / tj\_3101\_reson8125 / 2008-176 / 460\_1338  
**Profile/Beam:** 8014/109  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Debris, probable decomposed remains of a wreck. Least depth consistent with chart.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11916/tj_3101_reson8125/2008-176/460_1338	8014/109	0.00	000.0	Primary
AWOIS_B310-TJ-08	AWOIS # 4442	3.32	057.5	Secondary
h11916/tj_3102_klein5000_sss100/2008-169/101_1552	0002	42.86	265.8	Secondary (grouped)
h11916/tj_3101_reson8125/2008-171/459_2039	6742/170	44.33	275.3	Secondary (grouped)
h11916/tj_3101_reson8125/2008-171/459_2039	6769/138	52.99	260.5	Secondary (grouped)

## Hydrographer Recommendations

[None]

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

44ft (12326\_1)

7 ¼fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

13.5m (5161\_1)

## S-57 Data

**Geo object 1:** Wreck (WRECKS)  
**Attributes:** CATWRK - 2:dangerous wreck  
TECSOU - 2,3:found by side scan sonar,found by multi-beam  
VALSOU - 13.468 m  
VERDAT - 12:Mean lower low water  
WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Update least depth and position of charted Wk.

## Feature Images

[Image file t:/sar/h11916\_b310-tj/ahb\_h11916/pss/images/wreck\_awois\_4442.jpg does not exist.]

**3.13) AWOIS: 12948, 6408/224****Primary Feature for AWOIS Item #12948**

**Search Position:** 40:30:32.5 N, 073:51:03.8 W  
**Historical Depth:** 13.11 m  
**Search Radius:** 50  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

H10668/97-- OPR-C399-RU; UNCHARTED OBSTRUCTION LOCATED BY SIDE SCAN SONAR. SWMB LD OF 13.3 METERS (43 FEET) IN LAT. 40-30-32.47N, LONG. 73-51-03.82W. EVALUATOR RECOMMENDS CHARTING A 43 OBSTN AS SURVEYED. (ENT 12/22/04, SJV)

**Survey Summary**

**Survey Position:** 40:30:34.6 N, 073:51:03.1 W  
**Least Depth:** 13.68 m (= 44.89 ft = 7.482 fm = 7 fm 2.89 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.990$  m ; **TVU (TPEv)**  $\pm 0.153$  m  
**Timestamp:** 2008-176.17:18:32.373 (06/24/2008)  
**Survey Line:** h11916 / tj\_3101\_reson8125 / 2008-176 / 465\_1708  
**Profile/Beam:** 6408/224  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Charted obstruction appears to be a wreck.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11916/tj_3101_reson8125/2008-176/465_1708	6408/224	0.00	000.0	Primary
h11916/tj_3102_klein5000_sss100/2008-169/103_1657	0001	5.74	329.7	Secondary
AWOIS_B310-TJ-08	AWOIS # 12948	67.72	014.0	Secondary (grouped)

## Hydrographer Recommendations

[None]

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

45ft (12326\_1)

7 ½fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

13.7m (5161\_1)

### S-57 Data

**Geo object 1:** Wreck (WRECKS)

**Attributes:** CATWRK - 2:dangerous wreck

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

VALSOU - 13.683 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

### Office Notes

Concur with clarification. AWOIS 12948 found with 100% SSS and Complete MBES. Recommend to remove obstruction symbol and chart dangerous wreck with least depth and position from this survey.

### Feature Images

[Image file t:/sar/h11916\_b310-tj/ahb\_h11916/pss/images/wreck\_awois-12948.jpg does not exist.]



**3.14) AWOIS: 7510, 10547/5****Primary Feature for AWOIS Item #7510**

**Search Position:** 40:30:15.2 N, 073:53:57.9 W  
**Historical Depth:** 8.84 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

FE312SS/88--OPR-C121-WH-88; HEAD BOAT "APACHE V" PROVIDED LORAN C RATES; 200% SSS COVERAGE, 50M LINE SPACING; DIVER INVESTIGATION; LOCATED DUMPSITE CONSISTING OF ROCKS RANGING IN SIZE FROM 6 INCHES TO 4 FT., AS WELL AS BRICKS, SMALL PIECES OF WOOD AND PIECES OF OLD TRAWL NET; ESTIMATED TO BE 70 FT. LONG AND 40 FT. WIDE; EVALUATOR AND HYDROGRAPHER RECOMMENDED CHARTING AN OBSTRUCTION WITH LEAST DEPTH OF 29 FT. (ENTERED MSM 10/89)

**Survey Summary**

**Survey Position:** 40:30:15.0 N, 073:53:57.9 W  
**Least Depth:** 9.31 m (= 30.56 ft = 5.094 fm = 5 fm 0.56 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 0.985$  m ; TVU (TPEv)  $\pm 0.136$  m  
**Timestamp:** 2008-193.15:57:13.412 (07/11/2008)  
**Survey Line:** h11916 / tj\_3101\_reson8125 / 2008-193 / 232\_1544  
**Profile/Beam:** 10547/5  
**Charts Affected:** 12327\_1, 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Spoil area. Least depth consistant with chart.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11916/tj_3101_reson8125/2008-193/232_1544	10547/5	0.00	000.0	Primary
AWOIS_B310-TJ-08	AWOIS # 7510	5.45	158.0	Secondary
ChartGPs - ENC US5NY1BM	Danger 15	8.20	187.1	Secondary (grouped)
h11916/tj_3101_reson8125/2008-193/230_1510	10943/190	151.10	025.5	Secondary (grouped)
h11916/tj_3102_klein5000_sss100/2008-170/116_1507	0001	151.47	025.1	Secondary (grouped)

## Hydrographer Recommendations

[None]

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

30ft (12327\_1, 12326\_1)

5fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

9.3m (5161\_1)

## S-57 Data

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

**Attributes:** QUASOU - 6:least depth known

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

VALSOU - 9.315 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

## Office Notes

Concur. Update least depth and position of charted obstruction.

**3.15) AWOIS: 4298, 1180/77****Primary Feature for AWOIS Item #4298**

**Search Position:** 40:30:02.2 N, 073:52:54.5 W  
**Historical Depth:** 11.58 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

HISTORY ■ FE215/76WD(FE1/76WD)--HANGS 8 AND 9; HUNG IN LAT 40-30-01.2N, LONG 73-53-03.6W ■ CLEARED BY 36 FT; NO DIVER INVESTIGATION. (ENTERED MSM 1/86) ■ H10668/97--OPR-C399-RU; 200% SIDE SCAN SONAR SEARCH LOCATED TWO CONTACTS NEAR AWOIS POSITION. SHOALEST CONTACT WITH AN ES LD OF 38 FEET IN LAT. 40-30-02.204N, LONG. 73-52-54.449W. EVALUATOR RECOMMENDS DELETING CHARTED 36-FOOT WIRE DRAG CLEARED DEPTH AND CHARTING A 38 OBSTN AS SURVEYED. (UP 12/22/04, SJV)

**Survey Summary**

**Survey Position:** 40:30:01.4 N, 073:52:52.7 W  
**Least Depth:** 12.23 m (= 40.11 ft = 6.685 fm = 6 fm 4.11 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 0.992$  m ; TVU (TPEv)  $\pm 0.149$  m  
**Timestamp:** 2008-171.19:29:21.843 (06/19/2008)  
**Survey Line:** h11916 / tj\_3102\_reson8101 / 2008-171 / 485\_1926  
**Profile/Beam:** 1180/77  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Obstructions, possible spoil. The least depth is deeper than the charted sounding.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11916/tj_3102_reson8101/2008-171/485_1926	1180/77	0.00	000.0	Primary
h11916/tj_3102_klein5000_sss100/2008-169/107_1903	0001	2.48	063.8	Secondary (grouped)
AWOIS_B310-TJ-08	AWOIS # 4298	47.91	121.4	Secondary (grouped)
h11916/tj_3102_reson8101/2008-171/481_1621	10912/41	149.07	322.4	Secondary (grouped)
h11916/tj_3102_reson8101/2008-171/480_1546	4404/76	196.40	301.2	Secondary (grouped)

h11916/tj_3102_klein5000_sss100/2008-169/108_1936	0001	228.51	085.1	Secondary (grouped)
h11916/tj_3102_reson8101/2008-176/489_1404	2369/85	231.94	083.0	Secondary (grouped)

## Hydrographer Recommendations

[None]

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

40ft (12326\_1)

6 ½fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

12.2m (5161\_1)

## S-57 Data

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

**Attributes:** QUASOU - 6:least depth known

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

VALSOU - 12.226 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

## Office Notes

Concur. Chart sounding data. Remove danger circle from chart.

### 3.16) AWOIS: 12946, 1637/93

#### Primary Feature for AWOIS Item #12946

**Search Position:** 40:31:26.6 N, 073:50:54.7 W  
**Historical Depth:** 10.67 m  
**Search Radius:** 50  
**Search Technique:** MB, S2  
**Technique Notes:** [None]

**History Notes:**

H10668/97-- OPR-C399-RU; UNCHARTED OBSTRUCTION LOCATED BY SIDE SCAN SONAR. SWMB LD OF 10.8 METERS (35 FEET) IN LAT. 40-31-26.65N, LONG. 73-50-54.67W. EVALUATOR RECOMMENDS CHARTING A 35 OBSTN AS SURVEYED. (ENT 12/22/04, SJV)

#### Survey Summary

**Survey Position:** 40:31:26.7 N, 073:50:54.7 W  
**Least Depth:** 10.89 m (= 35.73 ft = 5.955 fm = 5 fm 5.73 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 1.000$  m ; **TVU (TPEv)**  $\pm 0.240$  m  
**Timestamp:** 2008-177.13:55:11.009 (06/25/2008)  
**Survey Line:** h11916 / tj\_3102\_reson8101 / 2008-177 / 502\_1351  
**Profile/Beam:** 1637/93  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Rock. Least depth agrees with chart.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_3102_reson8101/2008-177/502_1351	1637/93	0.00	000.0	Primary
h11916/tj_3102_klein5000_sss100/2008-170/113_1354	0001	0.18	180.0	Secondary (grouped)
AWOIS_B310-TJ-08	AWOIS # 12946	1.30	307.0	Secondary

## Hydrographer Recommendations

[None]

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

35ft (12326\_1)

6fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

10.9m (5161\_1)

## S-57 Data

**Geo object 1:** Underwater rock / awash rock (UWTROC)  
**Attributes:** QUASOU - 6:least depth known  
TECSOU - 2,3:found by side scan sonar,found by multi-beam  
VALSOU - 10.891 m  
VERDAT - 12:Mean lower low water  
WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Update position of charted obstruction.

**3.17) AWOIS: 1609, 2061/83****Primary Feature for AWOIS Item #1609**

**Search Position:** 40:27:13.7 N, 073:53:16.7 W  
**Historical Depth:** 19.40 m  
**Search Radius:** 50  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

NM22/46--DERRICK BARGE WRECK LIGHTED BUOY 3, BLACK, QK FL GREEN, ESTABLISHED IN 62 FT., 1.75 MILES, 63 DEG. FROM SCOTLAND LIGHT VESSEL. BUOY LOCATED 200 FEET EAST OF SUNKEN WRECK WHICH LIES IN A SE-NW DIRECTION. APPROX. POS. LAT. 40-27-24N, LONG. 73-53-06W. NM23/46--WK BUOY 3 HAS BEEN DISCONTINUED AND REPLACED WITH A BUOY LOCATED 20 FT OFF SE CORNER OF WK; WK HAS ABOUT 30 FT WATER OVER IT. NM36/47--WK BUOY WILL BE DISCONTINUED; SEARCH FAILED TO LOCATE WK. NM41/47--DERRICK BARGE WRECK LIGHTED BUOY, HAS BEEN DISCONTINUED. CL347/58--NON-DANGEROUS WRECK ADDED TO CHART IN APPROX. POS. LAT. 40-27-24N, LONG. 73-53-06W DUE TO NEW CHARTING POLICY. H10224/86--OPR-C121-WH-86; MAIN SCHEME HYDROGRAPHY AND SIDE SCAN SONAR INVESTIGATION REVEALED WHAT APPEARED TO BE A WRECK IN FOUR PIECES 447M SW OF WRECK; FOUR DIVES WERE PERFORMED IN 1987; FOUND A BARGE, APPROXIMATELY 50X120 FT WITH A PNEUMATIC DEPTH GAUGE LEAST DEPTH OF 63 FT TAKEN IN LAT 40-27-12.99N, LONG 73-53-18.36W (NAD27); 0-5 FT VISIBILITY; A STRUCTURE SIMILAR TO A DERRICK CRANE WAS FOUND; HYDROGRAPHER AND EVALUATOR RECOMMENDED DELETING CHARTED SYMBOL AND ADDING 63 WK AS SHOWN ON PRESENT SURVEY. (UPDATED MSD 4/91) DESCRIPTION 24 NO. 1350; BARGE, SUNK 5/30/46; POS. ACCURACY WITHIN 1 MILE; SUBSEQUENTLY FAILED TO LOCATE; 40-27-24N, 73-53-06W. S00003/03 -- S-B601-RU-02/03 HLS; Survey Position: 040° 27' 13.706" N, 73° 53' 16.676" W Least Depth: 19.40 m Timestamp: 2003-153.21:43:04.682 (06/02/2003) SWMB Investigation of charted wreck (AWOIS 1609) Wreck found, approxiamtely 80m due W of charted location. Hydrographer Recommendations: Reposition charted wreck Updated 9/7/2006 JCM

**Survey Summary**

**Survey Position:** 40:27:13.6 N, 073:53:16.6 W  
**Least Depth:** 18.70 m (= 61.34 ft = 10.223 fm = 10 fm 1.34 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 1.004$  m ; TVU (TPEv)  $\pm 0.228$  m  
**Timestamp:** 2008-163.20:08:03.433 (06/11/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-163 / 983\_2005  
**Profile/Beam:** 2061/83  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Remains of wreck.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-163/983_2005	2061/83	0.00	000.0	Primary
AWOIS_B310-TJ-08	AWOIS # 1609	3.97	139.5	Secondary

### Hydrographer Recommendations

[None]

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

61ft (12326\_1)

10 ¼fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

18.7m (5161\_1)

### S-57 Data

- Geo object 1:** Wreck (WRECKS)
- Attributes:**
  - CATWRK - 2:dangerous wreck
  - TECSOU - 2,3:found by side scan sonar,found by multi-beam
  - VALSOU - 18.695 m
  - VERDAT - 12:Mean lower low water
  - WATLEV - 3:always under water/submerged

### Office Notes

Concur. Update position and least depth on charted Wk to 61 ft.

### Feature Images

[Image file t:/sar/h11916\_b310-tj/ahb\_h11916/pss/images/wreck\_awois-1609.jpg does not exist.]



### 3.18) AWOIS: 7515, 2256/14

#### Primary Feature for AWOIS Item #7515

**Search Position:** 40:25:35.3 N, 073:50:06.8 W  
**Historical Depth:** 21.95 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

FE312SS/88--OPR-C121-WH-88; WHILE SEARCHING FOR AWOIS ITEM #2110, AN OBSTRUCTION WAS FOUND IN LAT 40-25-34.94N, LONG #73-50-08.34W; DIVER INVESTIGATION FOUND A PILE OF COMPRESSED #SHIPYARD DEBRIS; 10 FT. TALL, 20 FT. WIDE AND SURROUNDED BY SCRAP #IRON AND VARIOUS OTHER UNIDENTIFIABLE METALLIC DEBRIS; PILE #CONSISTED OF OLD MARINE HATCHES, LARGE AND SMALL PIECES OF METAL, #WELDING RODS, TUBING, WIRE AND APPEARED TO HAVE BEEN COMPRESSED #INTO A LARGE BLOCK; PILE HAD SEVERAL OLD LOBSTER POT LINES #WRAPPED AROUND IT AND A LOBSTER POT WAS FOUND AT THE BASE; DIVER #LEAST DEPTH OF 72 FT.; EVALUATOR RECOMMENDED CHARTING AN #OBSTRUCTION WITH A 72 FT. SOUNDING. (ENTERED MSM 10/89)

#### Survey Summary

**Survey Position:** 40:25:34.9 N, 073:50:07.0 W  
**Least Depth:** 24.13 m (= 79.17 ft = 13.196 fm = 13 fm 1.17 ft)  
**TPU (±1.96σ):** THU (TPEh) ±1.019 m ; TVU (TPEv) ±0.175 m  
**Timestamp:** 2008-166.00:40:48.042 (06/14/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-166 / 419\_0036  
**Profile/Beam:** 2256/14  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Sounding on large rock or debris. Appears to be deeper than charted sounding.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-166/419_0036	2256/14	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-164/419_1048	0001	3.02	237.8	Secondary (grouped)
h11916/tj_s222_klein5000_sss100/2008-164/418_0707	0001	8.47	338.6	Secondary (grouped)

AWOIS_B310-TJ-08	AWOIS # 7515	12.44	194.9	Secondary (grouped)
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## Hydrographer Recommendations

[None]

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

79ft (12326\_1)

13fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

24m (5161\_1)

## S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
TECSOU - 2,3:found by side scan sonar,found by multi-beam  
VALSOU - 24.132 m  
VERDAT - 12:Mean lower low water  
WATLEV - 3:always under water/submerged

## Office Notes

Concur. Chart sounding data.

### 3.19) AWOIS: 7940, 13406/253

#### Primary Feature for AWOIS Item #7940

**Search Position:** 40:25:04.5 N, 073:51:47.0 W  
**Historical Depth:** 14.02 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

#### History Notes:

H10224/86-88--OPR-C121-WH-86-88; SIDE SCAN SONAR AND DIVER INVESTIGATION OF CONTACT SHOWING DEFINITE WRECK CHARACTERISTICS; DIVERS FOUND A DETERIORATED WOODEN VESSEL WITH ROTTED WOODEN DECK PLANKING WHICH WAS MOSTLY SILTED OVER BY SAND; ONLY LARGE DECK TIMBERS REMAIN; NO MACHINERY FOUND; RIBS WERE OBSERVED RISING UP OFF THE BOTTOM ALONG THE EASTERN SIDE OF WRECK; DIVER GAUGE LEAST DEPTH TAKEN ON TOWING BITS AT THE NORTHERN END OF WRECK; LARGE DECK TIMBERS WERE SEEN ON WESTERN SIDE OF WRECK; 50 FT SW OF MAIN WRECKAGE, DIVERS FOUND WHAT APPEARS TO BE A PORTION OF THE SAME WRECK, RUNNING NW-SE, WOODEN RAIL-LIKE TIMBERS STICKING UP OFF THE BOTTOM 6-8 INCHES; ALSO APPEARS TO BE DETERIORATED; ON SECOND DIVE, A PILE WAS DISCOVERED ABOUT HALFWAY DOWN THE WRECK AND A PNEUMATIC DEPTH GAUGE LEAST DEPTH OF 46 FT WAS TAKEN ON IT IN LAT 40-25-04.11N, LONG 73-51-48.51W (NAD27); BEAM MEASURED 40 FT; LENGTH WAS 120 FT; HYDROGRAPHER AND EVALUATOR RECOMMENDED CHARTING 46 WK AS SHOWN ON PRESENT SURVEY. (ENTERED MSD 4/91)

#### Survey Summary

**Survey Position:** 40:25:04.6 N, 073:51:46.8 W  
**Least Depth:** 13.65 m (= 44.79 ft = 7.465 fm = 7 fm 2.79 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 1.019$  m ; TVU (TPEv)  $\pm 0.151$  m  
**Timestamp:** 2008-166.11:13:23.355 (06/14/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-166 / 428\_1056  
**Profile/Beam:** 13406/253  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

#### Remarks:

Least depth shoal of chart.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-166/428_1056	13406/253	0.00	000.0	Primary
AWOIS_B310-TJ-08	AWOIS # 7940	5.95	054.5	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-178/693_1656	1428/209	103.44	059.4	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-170/610_0029	8897/190	103.92	059.2	Secondary (grouped)

### Hydrographer Recommendations

[None]

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

45ft (12326\_1)

7 ½fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

13.7m (5161\_1)

### S-57 Data

- Geo object 1:** Obstruction (OBSTRN)
- Attributes:**
  - QUASOU - 6:least depth known
  - TECSOU - 2,3:found by side scan sonar,found by multi-beam
  - VALSOU - 13.652 m
  - VERDAT - 12:Mean lower low water
  - WATLEV - 3:always under water/submerged

### Office Notes

Concur with clarification. Update position and least depth on charted Obsn/Wk to 45 ft.

### 3.20) AWOIS: 7938, 14410/12

#### Primary Feature for AWOIS Item #7938

**Search Position:** 40:24:57.9 N, 073:51:55.5 W  
**Historical Depth:** 14.94 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

H10224/86-88--OPR-C121-WH-86-88; DEVELOPMENT 240; PREVIOUSLY UNCHARTED WRECK INVESTIGATED WITH 50M RANGE SIDE SCAN SONAR AND DIVER; DIVERS FOUND A BADLY DETERIORATED WOODEN 140X40 FT BARGE, SITTING UPRIGHT ON A SAND BOTTOM; ALTHOUGH THE SOUTHEAST END OF WRECK IS MORE INTACT, THE LEAST DEPTH WAS LOCATED ON THE NORTHWEST END; 49 FT PNEUMATIC DEPTH GAUGE LEAST DEPTH TAKEN ON THE TOP OF A WOODEN SUPPORT RIB AT LAT 40-24-57.56N, LONG 73-51-57.01W (NAD27); HYDROGRAPHER AND EVALUATOR RECOMMENDED CHARTING 49 WK AS SHOWN ON PRESENT SURVEY. (ENTERED MSD 4/91)

#### Survey Summary

**Survey Position:** 40:24:59.3 N, 073:51:52.4 W  
**Least Depth:** 16.06 m (= 52.69 ft = 8.781 fm = 8 fm 4.69 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 1.018$  m ; TVU (TPEv)  $\pm 0.162$  m  
**Timestamp:** 2008-166.11:14:15.661 (06/14/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-166 / 428\_1056  
**Profile/Beam:** 14410/12  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Shoal sounding, no visible wreck in immediate area.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-166/428_1056	14410/12	0.00	000.0	Primary
AWOIS_B310-TJ-08	AWOIS # 7938	83.77	059.4	Secondary

## Hydrographer Recommendations

[None]

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

52ft (12326\_1)

8 ¾fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

16.1m (5161\_1)

### S-57 Data

**Geo object 1:** Sounding (SOUNDG)  
**Attributes:** QUASOU - 6:least depth known  
TECSOU - 3:found by multi-beam  
VERDAT - 12:Mean lower low water

### Office Notes

Concur. Search radius covered with 100% SSS and Complete MBES. Chart sounding data. Remove danger circle from chart.

### 3.21) AWOIS: 1587, 8585/26

#### Primary Feature for AWOIS Item #1587

**Search Position:** 40:25:23.2 N, 073:51:28.0 W  
**Historical Depth:** 13.41 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

FE101/51WD(FE10/51WD)--CS-326;WHILE DRAGGING FOR WK G.L.78 (ITEM 4295) A SHOAL AREA WAS LOCATED SW OF WK; AREA APPARENTLY HAS BEEN FILLED BY DUMPING FROM DREDGES AND SCOWS; THERE ARE NUMEROUS RIDGES WITH DEPTHS OF 43 FT; MIN DEPTH OF 41 FT LOCATED IN LAT 40-25-20N, LONG 73-51-53W; GROUNDED AT 42FT; WD CLEARED AFTER TOWING BOTTOM; RECOMMENDED CHARTING 41FT SDG; CHARTED AS BASKET SNDG 41 FT WITH TYPE OBSTR; SEE ITEM 1589. (ENTERED MSM 12/85) H10224/86--OPR-C121-WH-86; MAIN SCHEME HYDROGRAPHY FOUND 2 SHOAL SOUNDINGS WHICH WERE DEVELOPED; ONE SHOAL AREA WAS DEVELOPED APPROXIMATELY 400M NE OF THE AWOIS ITEM AND AN OBSTRUCTION WITH A DEPTH OF 44 FT WAS LOCATED IN LAT 40-25-22.81N, LONG 73-51-29.56W (NAD27); EVALUATOR RECOMMENDED DELETING CHARTED SYMBOL AND ADDING 44 OBSTN AS SHOWN ON SURVEY. (UPDATED MSD 4/91) DESCRIPTION 24 NO.602; LOCATED 1905(SOURCE UNK) POS. ACCURACY WITHIN 1 MILE; WD CLEARED TO 41 FT.(FE101/51WD); REPORTED THRU HO CHART RECORDS DATED 1950

#### Survey Summary

**Survey Position:** 40:25:20.5 N, 073:51:26.2 W  
**Least Depth:** 13.76 m (= 45.14 ft = 7.523 fm = 7 fm 3.14 ft)  
**TPU (±1.96σ):** THU (TPEh) ±1.014 m ; TVU (TPEv) ±0.173 m  
**Timestamp:** 2008-166.23:32:03.688 (06/14/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-166 / 429\_2319  
**Profile/Beam:** 8585/26  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Least depth agrees with chart. No specific object visible in the sidescan record.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-166/429_2319	8585/26	0.00	000.0	Primary

AWOIS_B310-TJ-08	AWOIS # 1587	93.66	152.1	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-166/430_2246	5347/216	94.48	154.9	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-170/610_0029	5531/73	121.54	253.5	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-170/635_1003	2276/207	176.45	209.2	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-170/611_0940	6319/18	285.31	228.6	Secondary (grouped)

## Hydrographer Recommendations

[None]

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

45ft (12326\_1)

7 ½fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

13.8m (5161\_1)

## S-57 Data

**Geo object 1:** Sounding (SOUNDG)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 3:found by multi-beam  
 VERDAT - 12:Mean lower low water

## Office Notes

Concur. Search radius covered with 100% SSS and Complete MBES. Recommend to remove obstruction from the chart and chart sounding data.



### 3.22) AWOIS: 7928, 1609/237

#### Primary Feature for AWOIS Item #7928

**Search Position:** 40:24:59.7 N, 073:52:03.7 W  
**Historical Depth:** 17.98 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

H10224/86--OPR-C121-WH-86; AN OBSTRUCTION, A LARGE CONCRETE BLOCK, 7FT LONG, 7FT WIDE AND 4 FT TALL; SURROUNDING AREA FOUND TO CONSIST OF SMALL ROCKS, 6-12 INCHES, ON A SAND AND SILT BOTTOM; A PNEUMATIC DEPTH GAUGE LEAST DEPTH OF 59 FT, WAS LOCATED IN LAT 40-24-59.33N, LONG 73-52-05.25W (NAD27); EVALUATOR RECOMMENDED THAT IF CHART SCALE PERMITTED, A 59 OBSTR BE CHARTED AS SHOWN ON PRESENT SURVEY. (ENTERED MSD 4/91)

#### Survey Summary

**Survey Position:** 40:24:59.8 N, 073:52:03.9 W  
**Least Depth:** 17.79 m (= 58.36 ft = 9.727 fm = 9 fm 4.36 ft)  
**TPU (±1.96σ):** THU (TPEh) ±1.016 m ; TVU (TPEv) ±0.171 m  
**Timestamp:** 2008-166.22:48:27.587 (06/14/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-166 / 430\_2246  
**Profile/Beam:** 1609/237  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Rock cluster

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-166/430_2246	1609/237	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-166/430_2246	0007	2.03	102.9	Secondary (grouped)
AWOIS_B310-TJ-08	AWOIS # 7928	3.82	300.1	Secondary (grouped)

## Hydrographer Recommendations

[None]

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

58ft (12326\_1)

9 ¾fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

17.8m (5161\_1)

### S-57 Data

**Geo object 1:** Underwater rock / awash rock (UWTROC)  
**Attributes:** QUASOU - 6:least depth known  
TECSOU - 2,3:found by side scan sonar,found by multi-beam  
VALSOU - 17.789 m  
VERDAT - 12:Mean lower low water  
WATLEV - 3:always under water/submerged

### Office Notes

Concur with clarification. The 59 foot danger circle 200m northeast of this feature may be the charted version of this item. Recommend to remove the 59 foot obstruction 200m northeast of this location, and to chart the 58 foot obstruction in this location.

### 3.23) AWOIS: 1585, 4057/195

#### Primary Feature for AWOIS Item #1585

**Search Position:** 40:25:14.6 N, 073:51:40.4 W  
**Historical Depth:** 12.50 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

#### History Notes:

CL632/50--CGS; SPECIAL WK REPORT FROM PROJECT CS-326; WIRE DRAG HUNG AT 44FT ON AN OBSTR IN LAT 40-25-08N, LONG 73-51-33 IN DEPTHS OF 48-52 FT; CLEARED BY 42FT; BASKET SNDG 42 FT OBSTR CHARTED. FE101/51WD(FE10/51WD)--CS-326; VERIFIED REPORT REVISED ABOVE DATA TO HUNG AT 43FT IN LAT 40-25-10N, LONG 73-51-33W; CLEARED BY 41FT; CHART REVISED ACCORDINGLY. (ENTERED MSM 12/85) H10224/86--OPR-C121-WH-86; 200% SIDE SCAN SONAR FOR 300M RADIUS REVEALED ELEVEN CONTACTS RISING 3-4 FT OFF THE BOTTOM; DIVER INVESTIGATIONS WERE NOT PERFORMED DUE TO LIMITED TIME FOR PROJECT COMPLETION; HYDROGRAPHER AND EVALUATOR RECOMMENDED RETAINING 41 FT CLEARED DEPTH AND ADDING ONE OBSTRUCTION AS SHOWN ON SURVEY; ALSO SEE ITEMS 7933 AND 7934. (UPDATED MSD 4/91) H10683/96-- OPR-C399;RU; 3 SIGNIFICANT CONTACTS DETECTED IN SEARCH AREA. SHOALEST SOUNDING OF 43.3 FEET (MB) (13.2 METERS) IN LAT. 40-25-14.605N, LONG. 73-51-40.446W. EVALUATOR RECOMMENDS CHARTING A 43 OBSTN AS SURVEYED. DOES NOT MENTION DELETING CHARTED OBSTRUCTION. (UP 2/19/97, SJV) DESCRIPTION 24 NO.603; POS. ACCURACY WITHIN 1 MILE; WD CLEARED TO 41 FT.(FE101/51WD) REPORTED THROUGH H.O. CHART RECORDS, DATED 1950

#### Survey Summary

**Survey Position:** 40:25:16.3 N, 073:51:38.9 W  
**Least Depth:** 13.12 m (= 43.06 ft = 7.176 fm = 7 fm 1.06 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 1.007$  m ; TVU (TPEv)  $\pm 0.210$  m  
**Timestamp:** 2008-166.22:51:11.660 (06/14/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-166 / 430\_2246  
**Profile/Beam:** 4057/195  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

#### Remarks:

Rock cluster. Least depth agrees with chart.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-166/430_2246	4057/195	0.00	000.0	Primary
AWOIS_B310-TJ-08	AWOIS # 1585	63.73	033.9	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-165/430_2003	13139/17	65.07	032.9	Secondary (grouped)
h11916/tj_s222_klein5000_sss100/2008-166/430_2246	0006	68.93	031.8	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-170/612_1027	5176/207	139.91	252.0	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-163/983_2005	16264/246	178.43	260.9	Secondary (grouped)

### Hydrographer Recommendations

[None]

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

43ft (12326\_1)

7fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

13.1m (5161\_1)

### S-57 Data

- Geo object 1:** Underwater rock / awash rock (UWTROC)
- Attributes:**
  - QUASOU - 6:least depth known
  - TECSOU - 2,3:found by side scan sonar,found by multi-beam
  - VALSOU - 13.124 m
  - VERDAT - 12:Mean lower low water
  - WATLEV - 3:always under water/submerged

### Office Notes

Concur with clarification. Recommend to update the position of the charted obstruction.

**3.24) AWOIS: 1596, 12041/7****Primary Feature for AWOIS Item #1596**

**Search Position:** 40:25:22.5 N, 073:52:04.2 W  
**Historical Depth:** 17.68 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

NM4/26--BUOY ESTABLISHED TO MARK WK OF A COAL BARGE SUNK 6 MILES SE OF SANDY HOOK LIGHT STATION; 3 MASTS SHOWING ABOUT 6 FT ABOVE WATER. NM32/26--BUOY DISCONTINUED; WRECK REMOVED; WK DELETED FROM CHART. FE101/51WD; COE STATES BARGE SANK IN LAT 40-25-40N, LONG 73-53-00W AND WAS REMOVED UNDER CONTRACT TO A DEPTH OF 50 FT; 1 MILE RADIUS WIRE DRAG FROM 41-61 FT WITH NEGATIVE RESULTS; HYDROGRAPHER RECOMMENDED NO FURTHER SEARCH BE MADE FOR THIS WK. CL347/58--CGS; MEMO FROM CHIEF, CHART DIVISION ESTABLISHING NEW POLICY CONCERNING CHARTING OF WKS; WK ADDED TO CHARTS AS 55 FT BASKET SNDG. (ENTERED MSM 1/86) H10224/86--OPR-C121-WH-86; WRECK WAS LOCATED IN LAT 40-25-22.14N, LONG 73-52-05.77W (NAD27) WITH A PNEUMATIC DEPTH GAUGE LEAST DEPTH OF 58 FT; TWO DIVES TO VERIFY IDENTITY, POSITION AND LEAST DEPTH; 5-10 FT VISIBILITY; 40X90 FT WOODEN BARGE SITTING SLIGHTLY TILTED INTO A SAND BOTTOM; LEAST DEPTH WAS ON THE SOUTHEAST CORNER WHERE VESSEL REMAINS STUCK UP 2 1/2 FT ABOVE THE BOTTOM; NO EVIDENCE OF ANY SUPERSTRUCTURE OR THE THREE MASTS MENTIONED IN NM4/26; COAL FOUND WITHIN INTERIOR OF WRECK; 1392M SE OF AWOIS POSITION, BUT BELIEVED TO BE THE ITEM; NO INDICATION AT AWOIS POSITION; 216M FROM AWOIS ITEM 1595; EVALUATOR RECOMMENDED THAT, DUE TO CHART SCALE, THE TWO ITEMS BE COMBINED AND CHART 52 WKS IN POSITION OF ITEM 1595; DELETE CHARTED SYMBOL. (UPDATED MSD 4/91) DESCRIPTION 24 NO.1355; BARGE; SUNK 1926; POSITION ACCURACY WITHIN 1 MILE

**Survey Summary**

**Survey Position:** 40:25:24.2 N, 073:52:03.7 W  
**Least Depth:** 17.46 m (= 57.29 ft = 9.548 fm = 9 fm 3.29 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 1.019$  m ; TVU (TPEv)  $\pm 0.158$  m  
**Timestamp:** 2008-166.16:48:19.970 (06/14/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-166 / 437\_1630  
**Profile/Beam:** 12041/7  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Charted wrecked barge, no part rises more than 1/2 meter off sea bed.

## Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-166/437_1630	12041/7	0.00	000.0	Primary
h11916/tj_s222_reson7125_port/2008-166/437_1630	12066/67	16.26	117.3	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-170/619_0424	3289/224	50.49	035.5	Secondary (grouped)
AWOIS_B310-TJ-08	AWOIS # 1596	53.63	014.7	Secondary (grouped)
h11916/tj_s222_klein5000_sss100/2008-166/437_1632	0002	54.02	044.1	Secondary (grouped)

## Hydrographer Recommendations

[None]

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

57ft (12326\_1)

9 ½fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

17.5m (5161\_1)

## S-57 Data

**Geo object 1:** Wreck (WRECKS)

**Attributes:** CATWRK - 2:dangerous wreck  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 17.461 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Wreck is not navigationally significant compared with AWOIS 1595. Update size of danger circle to correlate with AWOIS 1595 and chart sounding data.

## Feature Images

[Image file t:/sar/h11916\_b310-tj/ahb\_h11916/pss/images/wreck\_awois\_1596.jpg does not exist.]

**3.25) AWOIS: 1595, 4624/256****Primary Feature for AWOIS Item #1595**

**Search Position:** 40:25:26.0 N, 073:52:12.2 W  
**Historical Depth:** 15.85 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

NM38/42--DANGEROUS WK SUNK ABOUT 2.9 MILES 229 DEGREES FROM AMBROSE LIGHT  
 VESSEL; BUOY ESTABLISHED 400 FT SSW OF WK. NM39/42--BUOY RELOCATED 500 FT EAST OF  
 WK. NM29/43--BUOY DISCONTINUED WK HAVING BEEN CLEARED TO 49 FT; SUPPLEMENT TO  
 NOTICE DATED 9/30/43 REVISED CLEARANCE TO 50 FT; CHARTED AS 50 FT WITH DANGER  
 CURVE; LATER REVISED THRU INSPECTION TO DANG. SUBM WK SYMBOL WITH NOTE (50 FT  
 REP) FE101/51WD(FE10/51WD)--CS-326; ITEM 50; EXTENSIVE DUMPING IN VICINITY OF  
 POSITION OF WK; SEVERAL OBSTR FOUND BUT IT IS NOT KNOWN IF THEY ARE PART OF WK OR  
 RESULT OF DUMPING; AT RECOMMENDATION OF THE HYDROGRAPHER WK SYMBOL WAS  
 DELETED AND SEVERAL CLEARED DEPTHS OF OBSTRS WERE ADDED IN THE VICINITY (REF.  
 AWOIS ITEMS 1589 AND 1594); HYDROGRAPHER RECOMMENDED THAT NO FURTHER SEARCH BE  
 MADE FOR WK. (ENTERED MSM 12/85) H10224/86--OPR-C121-WH-86; WRECK WAS FOUND IN LAT  
 40-25-25.58N, LONG 73-52-13.77W (NAD27) WITH A PNEUMATIC DEPTH GAUGE LEAST DEPTH OF  
 52 FT; WRECK WAS OF A METAL HULLED VESSEL APPROXIMATELY 110 FT LONG AND LAYING  
 ON A PORT LIST INTO A SAND AND GRAVEL BOTTOM; IN APPROXIMATELY THE CENTER OF THE  
 WRECK DIVERS FOUND A LARGE METALLIC CYLINDER LYING ON ITS SIDE WITH A SMALLER  
 ONE EXTENDING UPWARDS FROM IT; LARGE AMOUNTS OF BENT AND TWISTED DECK  
 PLATING, PIPING AND METAL BEAMS FOUND; DUE TO CHART SCALE, EVALUATOR  
 RECOMMENDS COMBINING WITH ITEM 1596 AND CHARTING 52 WKS IN SURVEY POSITION.  
 (UPDATED MSD 4/91) DESCRIPTION 24 NO.342; PATROL, 900 GT; SUNK 9/19/42 BY MARINE  
 CASUALTY, POSITION ACCURACY 1 MILE LOCATED 1950; WD CLEAR TO 45FT.; REPORTED  
 DEMOLISHED BY UNKNOWN AUTHORITY. 27 NO.577; PATROL, 500 GT SUNK 9/22/42. WRECK  
 CLEARED TO LD OF 50 FT AT LOW WATER. POS. LAT.40-25-19N, LONG.73-52-05W. 195 LORAN C  
 RATES PROVIDED BY MR. RICHARD TARACKA, GREENWICH, CT. POLICE DEPARTMENT, TEL NO  
 203-622-8020; 9960-X 26922.4, 9960-Y 43682.2. (ENTERED MSM 4/90)

**Survey Summary**

**Survey Position:** 40:25:26.0 N, 073:52:12.2 W  
**Least Depth:** 16.26 m (= 53.35 ft = 8.892 fm = 8 fm 5.35 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 1.020$  m ; TVU (TPEv)  $\pm 0.153$  m  
**Timestamp:** 2008-166.17:08:32.757 (06/14/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-166 / 439\_1702  
**Profile/Beam:** 4624/256

**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Wreck was surveyed with 100% MBES and 100% SSS coverage. Center section of wreck rises nearly 3 meters above surrounding sea bottom.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-166/439_1702	4624/256	0.00	000.0	Primary
AWOIS_B310-TJ-08	AWOIS # 1595	1.61	002.7	Secondary
h11916/tj_s222_klein5000_sss100/2008-166/439_1702	0003	35.77	298.3	Secondary

### Hydrographer Recommendations

[None]

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

53ft (12326\_1)

8 ¾fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

16.3m (5161\_1)

### S-57 Data

**Geo object 1:** Wreck (WRECKS)

**Attributes:** CATWRK - 2:dangerous wreck  
 SORIND - US,US,Nsurf,H11916  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 16.261 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

### Office Notes

Concur with clarification. Reposition danger circle to current position and update least depth of charted Wk to 53 ft.



## Feature Images

[Image file t:/sar/h11916\_b310-tj/ahb\_h11916/pss/images/wreck\_awois\_1595.jpg does not exist.]

### 3.26) AWOIS: 9765, 4752/255

#### Primary Feature for AWOIS Item #9765

**Search Position:** 40:26:10.6 N, 073:54:12.4 W  
**Historical Depth:** 19.20 m  
**Search Radius:** 50  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

H10224/86-87-- OPR-C121-WH; WHILE SEARCHING FOR AWOIS ITEM #1597, A SIDE SCAN SONAR CONTACT WAS DEVELOPED WITH A FATHO. LD OF #63.7 FEET IN 70 FEET IN LAT. 40-26-10.60N, LONG. 73-54-12.41W. #EVALUATOR RECOMMENDS CHARTING A 63 OBSTR AS SURVEYED. CHARTED AS #63 OBSTNS SINCE THERE ARE A NUMBER OF SMALLER CONTACTS IN THE #VICINTY. (ENT 5/30/96, SJV)

#### Survey Summary

**Survey Position:** 40:26:10.8 N, 073:54:11.4 W  
**Least Depth:** 20.90 m (= 68.57 ft = 11.428 fm = 11 fm 2.57 ft)  
**TPU (±1.96σ):** THU (TPEh) ±1.021 m ; TVU (TPEv) ±0.166 m  
**Timestamp:** 2008-167.22:18:54.950 (06/15/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-167 / 535\_2144  
**Profile/Beam:** 4752/255  
**Charts Affected:** 12327\_1, 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Rocks or dredge spoil. Least depth deeper than charted depth.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-167/535_2144	4752/255	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-167/535_2147	0002	14.92	247.0	Secondary (grouped)
AWOIS_B310-TJ-08	AWOIS # 9765	24.22	074.0	Secondary
ChartGPs - ENC US5NY1BM	Danger 7	36.25	068.8	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-181/735_0008	616/244	51.13	311.5	Secondary (grouped)
h11916/tj_s222_klein5000_sss100/2008-167/535_2147	0001	53.17	311.9	Secondary (grouped)

## Hydrographer Recommendations

[None]

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

68ft (12327\_1, 12326\_1)

11fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

20.9m (5161\_1)

## S-57 Data

**Geo object 1:** Underwater rock / awash rock (UWTROC)  
**Attributes:** QUASOU - 6:least depth known  
TECSOU - 2,3:found by side scan sonar,found by multi-beam  
VALSOU - 20.900 m  
VERDAT - 12:Mean lower low water  
WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Item investigated with 100% SSS and Complete MBES. Update position and least depth on charted Obstn to 68 ft.

**3.27) AWOIS: 9766, 12181/255**

**Primary Feature for AWOIS Item #9766**

**Search Position:** 40:26:45.0 N, 073:51:53.2 W  
**Historical Depth:** 21.03 m  
**Search Radius:** 50  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

H10224/86-88-- OPR-C121-WH; SIDE SCAN SONAR CONTACT. DIVERS i■DESCRIBE A SUNKEN NAVIGATION BUOY (13 FEET LONG, 10 FEET HIGH) IN i■LAT. 40-26-45.04N, LONG. 73-51-53.24W. LD OF 69 FEET. EVALUATOR i■RECOMMENDS CHARTING A 69-FOOT OBSTR (BUOY) AS SURVEYED. ITEM IS i■IN 80 FEET. (ENT 5/30/96, SJV)

**Survey Summary**

**Survey Position:** 40:26:45.4 N, 073:51:51.8 W  
**Least Depth:** 22.07 m (= 72.42 ft = 12.071 fm = 12 fm 0.42 ft)  
**TPU (±1.96σ):** THU (TPEh) ±1.022 m ; TVU (TPEv) ±0.172 m  
**Timestamp:** 2008-168.22:58:57.248 (06/16/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-168 / 515\_2243  
**Profile/Beam:** 12181/255  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Charted obstruction. Least depth deeper than charted depth.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-168/515_2243	12181/255	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-168/515_2245	0001	3.87	088.7	Secondary (grouped)
AWOIS_B310-TJ-08	AWOIS # 9766	36.12	072.3	Secondary (grouped)

## Hydrographer Recommendations

[None]

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

72ft (12326\_1)

12fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

22m (5161\_1)

## S-57 Data

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

**Attributes:** QUASOU - 6:least depth known

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

VALSOU - 22.075 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Item investigated with 100% SSS and Complete MBES. Update charted non-dangerous Obstn position and least depth to 72 ft.

### 3.28) AWOIS: 9735, 17094/51

#### Primary Feature for AWOIS Item #7935

**Search Position:** 40:27:42.6 N, 073:51:45.1 W  
**Historical Depth:** 16.15 m  
**Search Radius:** 50  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

H10224/86-88--OPR-C121-WH-86-88; DEVELOPMENT 110; A CONTACT ENCOUNTERED IN 1986, WAS DEVELOPED WITH ECHOSOUNDER AND SIDE SCAN SONAR IN 1986-1987; DIVERS DETERMINED THAT OBSTRUCTION IS THE RESULT OF CONSTRUCTION DEBRIS DUMPING; CONSISTED ENTIRELY OF BROKEN CONCRETE BEAMS, BLOCKS, RUBBLE, AND REINFORCEMENT RODS; PNEUMATIC DEPTH GAUGE LEAST DEPTH OF 53 FT IN LAT 40-27-42.23N, LONG 73-51-46.58W (NAD27); HYDROGRAPHER AND EVALUATOR RECOMMENDED CHARTING AS 53 OBSTR. (ENTERED MSD 4/91)

#### Survey Summary

**Survey Position:** 40:27:42.3 N, 073:51:45.5 W  
**Least Depth:** 20.32 m (= 66.67 ft = 11.112 fm = 11 fm 0.67 ft)  
**TPU (±1.96σ):** THU (TPEh) ±1.010 m ; TVU (TPEv) ±0.202 m  
**Timestamp:** 2008-168.05:30:50.618 (06/16/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-168 / 534\_0512  
**Profile/Beam:** 17094/51  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Obstruction. Least depth greater than chart.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-168/534_0512	17094/51	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-167/535_2145	0002	9.10	286.8	Secondary
AWOIS_B310-TJ-08	AWOIS # 7935	14.35	229.1	Secondary (grouped)

## Hydrographer Recommendations

[None]

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

66ft (12326\_1)

11fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

20.3m (5161\_1)

### S-57 Data

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

**Attributes:** QUASOU - 6:least depth known

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

VALSOU - 20.322 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

**Geo object 2:** Sounding (SOUNDG)

### Office Notes

Concur with clarification. Update position and least depth on charted Obsn to 66 ft.

### 3.29) AWOIS: 9768, 7915/13

#### Primary Feature for AWOIS Item #9768

**Search Position:** 40:26:00.4 N, 073:52:59.4 W  
**Historical Depth:** 16.15 m  
**Search Radius:** 50  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

H10224/86-88-- OPR-C121-WH; SIDE SCAN SONAR CONTACT. DIVERS DESCRIBE A WRECK SITE 250' X 50' CONTAINING THE REMAINS OF WHAT APPEARED TO BE A WOODEN VESSEL (DECK MACHINERY, 3-FOOT DIA. METAL CYLINDER, LARGE TIMBERS REENFORCED WITH METAL PLATES). LD (PNEUMO) OF 53 FEET IN LAT. 40-26-00.53N, LONG. 73-52-59.41W. EVALUATOR RECOMMENDS CHARTING A 53 WK AS SURVEYED. (ENT 5/30/96, SJV)

#### Survey Summary

**Survey Position:** 40:26:02.2 N, 073:52:57.8 W  
**Least Depth:** 16.96 m (= 55.63 ft = 9.272 fm = 9 fm 1.63 ft)  
**TPU (±1.96σ):** THU (TPEh) ±1.018 m ; TVU (TPEv) ±0.163 m  
**Timestamp:** 2008-169.02:05:42.645 (06/17/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-169 / 514\_0154  
**Profile/Beam:** 7915/13  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Charted wreck, large wooden vessel with scattered timbers in wreck site.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-169/514_0154	7915/13	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-168/515_2244	0001	20.31	000.3	Secondary
AWOIS_B310-TJ-08	AWOIS # 9768	68.05	033.8	Secondary (grouped)



## Hydrographer Recommendations

[None]

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

55ft (12326\_1)

9 ¼fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

17.0m (5161\_1)

## S-57 Data

**Geo object 1:** Wreck (WRECKS)

**Attributes:** CATWRK - 2:dangerous wreck

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

VALSOU - 16.956 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Feature found with deeper least depth than charted. Update position and least depth of charted Wk to 55 ft.

## Feature Images

[Image file t:/sar/h11916\_b310-tj/ahb\_h11916/pss/images/wreck\_awois-9768.jpg does not exist.]

### 3.30) AWOIS: 14205, 8052/256

#### Primary Feature for AWOIS Item #14205

**Search Position:** 40:26:10.1 N, 073:52:59.4 W  
**Historical Depth:** [None]  
**Search Radius:** 50  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

Unknown charting source. Submerged obstruction with least depth of 45 feet. Appeared on chart sometime between 1992 and 1996.

#### Survey Summary

**Survey Position:** 40:26:08.2 N, 073:53:02.4 W  
**Least Depth:** 13.98 m (= 45.87 ft = 7.644 fm = 7 fm 3.87 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 1.019$  m ; TVU (TPEv)  $\pm 0.148$  m  
**Timestamp:** 2008-169.04:11:27.947 (06/17/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-169 / 518\_0401  
**Profile/Beam:** 8052/256  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Rocky area, possibly spoil pile. Least depth agrees with chart.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-169/518_0401	8052/256	0.00	000.0	Primary
AWOIS_B310-TJ-08	AWOIS # 14205	92.86	229.8	Secondary (grouped)
h11916/tj_s222_klein5000_sss100/2008-168/519_1841	0003	142.97	201.4	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-168/519_1841	3581/35	144.15	186.3	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-180/703_1833	798/55	145.69	202.7	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-180/703_1833	840/212	150.71	212.0	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-180/702_0042	4424/173	224.86	234.2	Secondary (grouped)
h11916/tj_s222_klein5000_sss100/2008-168/517_2025	0001	226.23	234.9	Secondary (grouped)

## Hydrographer Recommendations

[None]

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

46ft (12326\_1)

7 ½fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

14.0m (5161\_1)

## S-57 Data

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

**Attributes:** QUASOU - 6:least depth known

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

VALSOU - 13.980 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Found with 100% SSS and Complete MBES. Update position and least depth of charted Obstn to 46 ft.

### 3.31) AWOIS: 7933, 3684/219

#### Primary Feature for AWOIS Item #7933

**Search Position:** 40:25:11.6 N, 073:51:35.3 W  
**Historical Depth:** 13.41 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

H10224/86--OPR-C121-WH-86; WHILE INVESTIGATING AWOIS ITEM 1585, A SIDE SCAN SONAR CONTACT WAS FOUND; DESCRIBED AS ROCKS AND RUBBLE WITH AN ESTIMATED LEAST DEPTH OF 44 FT IN LAT 40-25-11.25N, LONG 73-51-36.80W (NAD27); 100M WEST OF ITEM 1585 AND HYDROGRAPHER BELIEVES THIS MAY BE THAT ITEM; DUE TO LIMITED TIME FOR PROJECT COMPLETION, NO DIVER INVESTIGATION WAS PERFORMED ON THIS ITEM; SHOWN ON PRESENT SURVEY AS 44 OBSTR (A); EVALUATOR RECOMMENDED THAT THIS ITEM NOT BE CHARTED. (ENTERED MSD 4/91)

#### Survey Summary

**Survey Position:** 40:25:13.1 N, 073:51:34.5 W  
**Least Depth:** 13.92 m (= 45.68 ft = 7.613 fm = 7 fm 3.68 ft)  
**TPU (±1.96σ):** THU (TPEh) ±1.012 m ; TVU (TPEv) ±0.186 m  
**Timestamp:** 2008-170.09:44:13.420 (06/18/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-170 / 611\_0940  
**Profile/Beam:** 3684/219  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Sounding on rock. Least depth agrees with charted depth.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-170/611_0940	3684/219	0.00	000.0	Primary
AWOIS_B310-TJ-08	AWOIS # 7933	49.15	022.9	Secondary (grouped)

## Hydrographer Recommendations

[None]

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
TECSOU - 2,3:found by side scan sonar,found by multi-beam  
VALSOU - 13.923 m  
VERDAT - 12:Mean lower low water  
WATLEV - 3:always under water/submerged

### Office Notes

Concur. Chart sounding data due to proximity of shoaler feature.

### 3.32) AWOIS 4295, 3704/221

#### Primary Feature for AWOIS Item #4295

**Search Position:** 40:25:37.4 N, 073:51:07.9 W  
**Historical Depth:** 15.85 m  
**Search Radius:** 50  
**Search Technique:** s2  
**Technique Notes:** [None]

#### History Notes:

FE101/51WD(FE10/51WD)--CS-326; WK PROBABLY DUMP SCOW SUNK IN 1937 WAS LOCATED IN LAT 40-25-40N, LONG 73-51-10W; 47 FT SNDG TAKEN ON WK IN 62 FT DEPTHS; CLEARED BY 45 FT; CHARTED AS 45 FT SNDG WITH BASKET AND TYPE WRECK. (ENTERED MSM 12/85) H10224/86--OPR-C121-WH-86; MAIN SCHEME HYDROGRAPHY AND SIDE SCAN SONAR FOUND WRECK; DIVER INVESTIGATION REVEALED A WOODEN HULLED VESSEL BROKEN INTO TWO SEPARATE SECTIONS, LAYING UPRIGHT ON A SAND AND GRAVEL BOTTOM; TWO SECTIONS SEPARATED BY 20-30 FT OF SCATTERED DEBRIS; EVIDENCE OF INTERNAL MACHINERY AND DRIVE SHAFTS; BEAM ESTIMATED TO BE ABOUT 50 FT; KEEL BLOCK AND INTERNAL FRAMING WERE MOSTLY INTACT; AT THE SOUTHERN END OF WRECK ONLY OCCASIONAL WOODEN RIBS WERE OBSERVED EXENDING UPWARDS FROM WRECKAGE; NORTHERN SECTION OF THE WRECK WAS COMPOSED OF WOODEN AND METALLIC BEAMS, PIPES AND OTHER DEBRIS; POOR VISIBILITY; PNEUMATIC DEPTH GAUGE LEAST DEPTH OF 52 FT TAKEN ON TOP OF WOODEN POST STICKING 8-10 FT UP FROM BOTTOM IN LAT 40-25-37.05N, LONG 73-51-09.45W (NAD27); BELIEVED TO BE A MOTOR DRIVEN BARGE OR SCOW WHICH BROKE APART AND SANK; HYDROGRAPHER AND EVALUATOR RECOMMENDED DELETING CHARTED SYMBOL AND ADDING 52 WK TO CHART AS SHOWN ON PRESENT SURVEY. (UPDATED MSD 4/91) H10683/96--OPR-C399-RU; WRECK LOCATED WITHIN THE SEARCH RADIUS FOR AWOIS #9705. EVALUATOR RECOMMENDS DELETING AWOIS ITEM 4295 FROM CHART. (UP 2/19/97, SJV)

#### Survey Summary

**Survey Position:** 40:25:38.5 N, 073:51:08.1 W  
**Least Depth:** 17.18 m (= 56.37 ft = 9.395 fm = 9 fm 2.37 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 1.013$  m ; TVU (TPEv)  $\pm 0.186$  m  
**Timestamp:** 2008-170.10:56:50.172 (06/18/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-170 / 613\_1051  
**Profile/Beam:** 3704/221  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

#### Remarks:

[None]

## Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-170/613_1051	3704/221	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-166/431_1455	0002	12.97	349.3	Secondary
h11916/tj_s222_reson7125_port/2008-170/634_1014	187/162	28.81	222.6	Secondary
h11916/tj_s222_klein5000_sss100/2008-166/430_2246	0003	29.61	341.9	Secondary
AWOIS_B310-TJ-08	AWOIS # 4295	32.70	352.7	Secondary
h11916/tj_s222_klein5000_sss100/2008-166/431_1455	0001	35.29	333.1	Secondary
h11916/tj_s222_klein5000_sss100/2008-166/430_2246	0005	78.36	278.2	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-166/430_2246	8152/150	82.92	267.9	Secondary (grouped)
h11916/tj_s222_reson7125_port/2008-166/430_2246	8187/111	88.01	261.2	Secondary (grouped)

## Hydrographer Recommendations

[None]

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

56ft (12326\_1)

9 ¼fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

17.2m (5161\_1)

## S-57 Data

**Geo object 1:** Wreck (WRECKS)

**Attributes:** CATWRK - 2:dangerous wreck

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

VALSOU - 17.181 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

## Office Notes

AWOIS 4295 found with charted least depth. Update position of charted wreck.

## Feature Images

[Image file t:/sar/h11916\_b310-tj/ahb\_h11916/pss/images/wreck\_awois-4295.jpg does not exist.]



### 3.33) AWOIS: 7930, 4019/182

#### Primary Feature for AWOIS Item #7930

**Search Position:** 40:25:31.3 N, 073:52:34.6 W  
**Historical Depth:** 19.51 m  
**Search Radius:** 50  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

H10224/86--OPR-C121-WH-86; AN OBSTRUCTION, DETERMINED TO BE DEBRIS; CONSISTS OF A LARGE CONCRETE SLAB (10 FT LONG, 3 FT WIDE AND 2 FT THICK), STICKING OUT OF A PILE OF SMALL ROCKS, BRICKS WOODEN TIMBERS, CABLE, PIECES OF METAL AND ASSORTED RUBBLE, AT A 45 DEGREE ANGLE; SITE IS APPROXIMATELY 60 FT LONG AND 40 FT WIDE; A PNEUMATIC DEPTH GAUGE LEAST DEPTH OF 64 FT, WAS TAKEN ON THE SLAB IN LAT 40-25-30.90N, LONG 73-52-36.13W (NAD27); TOTAL OF THREE OBSTRUCTIONS WITHIN AN AREA OF APPROXIMATELY 160-300M; DUE TO CHART SCALE, EVALUATOR RECOMMENDED COMBINING WITH ITEMS 7929 AND 7931, AND CHARTING 64 OBSTRS IN POSITION OF THIS ITEM. (ENTERED MSD 4/91)

#### Survey Summary

**Survey Position:** 40:25:31.4 N, 073:52:34.9 W  
**Least Depth:** 19.58 m (= 64.25 ft = 10.709 fm = 10 fm 4.25 ft)  
**TPU (±1.96σ):** THU (TPEh) ±1.005 m ; TVU (TPEv) ±0.222 m  
**Timestamp:** 2008-170.01:31:46.601 (06/18/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-170 / 628\_0126  
**Profile/Beam:** 4019/182  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Decomposed wreck. Appears to be about 100 foot barge.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-170/628_0126	4019/182	0.00	000.0	Primary
AWOIS_B310-TJ-08	AWOIS # 7930	8.03	308.2	Secondary
h11916/tj_s222_klein5000_sss100/2008-166/445_1841	0002	34.92	004.3	Secondary (grouped)

h11916/tj_s222_reson7125_port/2008-166/444_0129	5838/36	142.39	231.7	Secondary (grouped)
AWOIS_B310-TJ-08	AWOIS # 7929	153.17	119.1	Secondary (grouped)

### Hydrographer Recommendations

[None]

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

64ft (12326\_1)

10 ¾fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

19.6m (5161\_1)

### S-57 Data

**Geo object 1:** Wreck (WRECKS)

**Attributes:** CATWRK - 2:dangerous wreck  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 19.584 m  
 VERDAT - 12:Mean lower low water  
 WATLEV - 3:always under water/submerged

### Office Notes

Concur. Recommend to remove obstruction symbol and add wreck symbol in the updated position.

### Feature Images

[Image file t:/sar/h11916\_b310-tj/ahb\_h11916/pss/images/wreck\_awois-7930.jpg does not exist.]

### 3.34) AWOIS: 701, 5134/230

#### Primary Feature for AWOIS Item #701

**Search Position:** 40:25:22.1 N, 073:52:49.7 W  
**Historical Depth:** 19.20 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

LN47/73--TUG, 53 FT L, SALVAGED FROM POS.40-34-06N, 73-59-48W AND SUNK AT POS.40-25-18N, 73-52-54W IN 70 FT OF WATER. SUPERSTRUCTURE COLLAPSED IN TRANSIT. PROJECTS APPROX 8 FT ABOVE BOTTOM. (CHARTED SYMBOL HAS NOTE, "62 FT REP") H10224/86--OPR-C121-WH-86; WRECK LOCATED APPROXIMATELY 160M NNE OF REPORTED POSITION WITH PNEUMATIC DEPTH GAUGE LEAST DEPTH OF 63 FT IN LAT 40-25-21.72N, LONG 73-52-51.20W (NAD27); SITTING UPRIGHT ON SANDY BOTTOM; COLLAPSED REMAINS OF SUPERSTRUCTURE LOCATED LYING ON THE BOTTOM IMMEDIATELY NORTH OF THE VESSEL; EVALUATOR RECOMMENDED DELETING CHARTED SYMBOL AND NOTE, AND ADDING 63 WK AS SHOWN ON PRESENT SURVEY. (UPDATED MSD 4/91)

#### Survey Summary

**Survey Position:** 40:25:22.4 N, 073:52:49.6 W  
**Least Depth:** 18.35 m (= 60.22 ft = 10.036 fm = 10 fm 0.22 ft)  
**TPU (±1.96σ):** THU (TPEh) ±1.015 m ; TVU (TPEv) ±0.178 m  
**Timestamp:** 2008-170.01:33:17.759 (06/18/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-170 / 628\_0126  
**Profile/Beam:** 5134/230  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Charted wreck. Least depth is shoal of charted depth.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-170/628_0126	5134/230	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-166/445_1841	0001	1.30	079.3	Secondary (grouped)
AWOIS_B310-TJ-08	AWOIS # 701	10.11	005.5	Secondary (grouped)

## Hydrographer Recommendations

[None]

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

60ft (12326\_1)

10fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

18.4m (5161\_1)

## S-57 Data

**Geo object 1:** Wreck (WRECKS)

**Attributes:** CATWRK - 2:dangerous wreck

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

VALSOU - 18.354 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Update least depth and position of charted wreck.

## Feature Images

[Image file t:/sar/h11916\_b310-tj/ahb\_h11916/pss/images/wreck\_awois-701.jpg does not exist.]

### 3.35) AWOIS: 1589, 5846/246

#### Primary Feature for AWOIS Item #1589

**Search Position:** 40:25:25.7 N, 073:51:37.4 W  
**Historical Depth:** 14.02 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

FE101/51WD(FE10/51WD)--CS-326; WHILE INVESTIGATING WK OF PENTLAND FIRTH (AWOIS ITEM NO. 1595), AN OBSTRUCTION WAS LOCATED IN LAT 40-25-26N, LONG 73-51-49W; HUNG AT 44 FT; CLEARED BY 41 FT IN DEPTHS OF 51 FT. (ENTERED MSM 12/86)  
 H10224/86-88--OPR-C121-WH-86-88; EXAMINATION OF SIDE SCAN SONARGRAMS REVEALED SCATTERED DEBRIS REPRESENTING A DUMPSITE; IN 1986 TWO CONTACTS WERE FOUND IN LAT 40-25-23.61N, LONG 73-51-39.86W AND LAT 40-25-25.51N, LONG 73-51-38-83W (NAD27); DUE TO LIMITED TIME FOR PROJECT, DIVER LEAST DEPTH WAS NOT ACQUIRED; FURTHER ECHOSOUNDER DEVELOPMENT IN 1988 DETERMINED 46 FT LEAST DEPTH IN LAT 40-25-25.31N, LONG 73-51-38.94W (NAD27); EVALUATOR RECOMMENDED CHARTING 46 OBSTRS AS SHOWN ON PRESENT SURVEY. (UPDATED MSD 4/91) DESCRIPTION 24 NO.601; POS. ACCURACY WITHIN 1 MILE; WD CLEARED TO 41 FT.(FE101) REPORTED THROUGH H.O. CHART RECORDS, DATED 1950

#### Survey Summary

**Survey Position:** 40:25:27.0 N, 073:51:35.8 W  
**Least Depth:** 13.85 m (= 45.45 ft = 7.574 fm = 7 fm 3.45 ft)  
**TPU (±1.96σ):** THU (TPEh) ±1.017 m ; TVU (TPEv) ±0.157 m  
**Timestamp:** 2008-170.07:19:55.993 (06/18/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-170 / 631\_0712  
**Profile/Beam:** 5846/246  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Shoal, Least depth agrees with chart.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-170/631_0712	5846/246	0.00	000.0	Primary

AWOIS_B310-TJ-08	AWOIS # 1589	56.17	043.5	Secondary
h11916/tj_s222_reson7125_port/2008-170/633_0953	687/3	125.48	277.7	Secondary (grouped)

### Hydrographer Recommendations

[None]

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

45ft (12326\_1)

7 ½fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

13.9m (5161\_1)

### S-57 Data

- Geo object 1:** Obstruction (OBSTRN)
- Attributes:**
  - QUASOU - 6:least depth known
  - TECSOU - 2,3:found by side scan sonar,found by multi-beam
  - VALSOU - 13.852 m
  - VERDAT - 12:Mean lower low water
  - WATLEV - 3:always under water/submerged

### Office Notes

Do not concur. Least depth shoal of charted depth. Update least depth and position of charted obstruction.

### 3.36) AWOIS: 9705, 6718/156

#### Primary Feature for AWOIS Item #9705

**Search Position:** 40:25:35.0 N, 073:51:38.1 W  
**Historical Depth:** [None]  
**Search Radius:** 50  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

LNM50/92-- ADD SUBMERGED OBSTRUCTION (REP 1992) IN PA LAT. i■40-25-50N, LONG. 73-51-30W. (ENT 3/22/96, SJV)■ H10683/96-- OPR-C399-RU; 14 SIGNIFICANT CONTACTS DETECTED IN SEARCH AREA. 3 OTHER CONTACTS DETECTED "JUST TO THE EAST". SHOALEST SOUNDING (MB) OF 46.6 FEET (14.2 METERS) IN LAT. 40-25-35.011N, LONG. 73-51-38.067W. ONE DIVE ON A MAN-MADE OBJECT JUST OUTSIDE AWOIS CIRCLE OBTAINED A LD (PNEUMATIC DEPTH GAUGE) OF 56.1 FEET (17.1 METERS) IN LAT. 40-25-38.222N, LONG. 73-51-07.892W. EVALUATOR RECOMMENDS CHARTING A 56WK AS SURVEYED AND DELETING CHARTED OBSTRUCTION. CHART A 46OBSTN AS SURVEYED. (UP 2/19/97, SJV)

#### Survey Summary

**Survey Position:** 40:25:35.0 N, 073:51:38.1 W  
**Least Depth:** 14.46 m (= 47.44 ft = 7.906 fm = 7 fm 5.44 ft)  
**TPU (±1.96σ):** THU (TPEh) ±1.001 m ; TVU (TPEv) ±0.236 m  
**Timestamp:** 2008-166.15:55:37.319 (06/14/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-166 / 435\_1548  
**Profile/Beam:** 6718/156  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Rock or spoil pile. Least depth agrees with chart.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-166/435_1548	6718/156	0.00	000.0	Primary
AWOIS_B310-TJ-08	AWOIS # 9705	1.75	205.9	Secondary
h11916/tj_s222_klein5000_sss100/2008-166/435_1548	0002	6.91	335.8	Secondary
AWOIS_B310-TJ-08	AWOIS # 7926	175.53	265.8	Secondary (grouped)

## Hydrographer Recommendations

[None]

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

47ft (12326\_1)

7 ¾fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

14.5m (5161\_1)

## S-57 Data

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

**Attributes:** QUASOU - 6:least depth known

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

VALSOU - 14.459 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

## Office Notes

Do not concur. Least depth is deeper than charted depth. Update least depth and position of charted obstruction.



### 3.37) AWOIS: 1606, 412/160

#### Primary Feature for AWOIS Item #1606

**Search Position:** 40:27:14.8 N, 073:54:14.6 W  
**Historical Depth:** 19.20 m  
**Search Radius:** 100  
**Search Technique:** s2  
**Technique Notes:** [None]

#### History Notes:

NM9/25--MUDSCOW B.B. 14 WRECK GAS BUOY ESTABLISHED IN 12.5 FATHOMS i75 YDS. SSE OF WRECK WHICH IS PARTLY AWASH. LOCATED IN APPROX. POS. iLAT. 40-27-15N, LONG. 73-54-10W. NM10/25--WRECK BUOY DISCONTINUED. WRECK DISAPPEARED. CL776/50--SPECIAL REPORT ON WRECK OF DUMP SCOW B.B. 14. WRECK IS ITEM NO. 4 iOF SUPPLEMENTAL INSTRUCTIONS FOR PROJECT CS-326, DATED 26 JULY, 1950. iCOE, NEW YORK STATED THAT DUMP SCOW B.B. 14 SANK IN 1925 IN LAT. 40-27-15N, iLONG. 73-54-20W. POSITION DOUBTFUL. AREA COVERED BY WIRE DRAG SET AT iEFFECTIVE DEPTHS FROM 41 TO 55 FEET. NO OBSTRUCTIONS FOUND, BUT AREA IS iCONSIDERABLY SHOALER THAN CHARTED DEPTHS, PROBABLY THE RESULT OF DUMPING iOPERATIONS. SOUNDING OF 44 FT. OBTAINED IN LAT. 40-28-19.8N, iLONG. 73-54-30.0N. CLEARED BY 42.0 FT, SOUNDINGS OF 42 TO 46 FT. OBTAINED iIN LAT. 40-26-42.0W, LONG. 73-54-48.0W. CLEARED BY 41 FT. DEPTHS BASED iON PREDICTED TIDES. FE101/51--(FE 10/51WD)--CS-326; NO OBSTRUCTIONS FOUND, HOWEVER SEVERAL iBOTTOM HANGS OBTAINED IN VICINITY OF ITEM NO. 4 IN LAT. 40-27-15N, iLONG. 73-54-20W; CLEARED 40.0 FT. H10224/86-87--OPR-C121-WH-86-87; MAIN SCHEME HYDROGRAPHY AND iSIDE SCAN SONAR INVESTIGATION REVEALED 5 CONTACTS IN CLOSE iPROXIMITY TO EACH OTHER; CONTACTS INTERPRETED TO BE A WRECK; iDIVER INVESTIGATION IN 1987 FOUND SEVERAL PINNACLES OF WOOD AND iCORRODED METAL PROTRUDING 3-5 FT ABOVE THE BOTTOM; ALSO, A METAL iSTRUCTURE 5 FT TALL WITH A 5 FT BASE, A 20 FT LONG WOODEN BEAM iWITH 1 FT PEGS LYING IN A EAST-WEST DIRECTION ON THE BOTTOM AND iTHREE 4-5 FT TALL METAL PILINGS; PNEUMATIC DEPTH GAUGE LEAST iDEPTH OF 63FT TAKEN ON ONE OF THE PILINGS IN LAT 40-27-14.42N, LONG i73-54-16.11W (NAD27); NO EVIDENCE OF 44 FT SOUNDING; HYDROGRAPHER iAND EVALUATOR RECOMMENDED CHARTED SYMBOL BE DELETED AND CHART 63 iOBSTR (WRECKAGE) IN SURVEY POSITION. (UPDATED MSD 4/91) iDESCRIPTION 24 NO. 605; BARGE; SUNK 1925 BY MARINE CASUALTY; POSITION ACCURACY WITHIN i1 MILE; REPORTED THRU HO CHART RECORDS IN 1950; WD CLEARED TO 40 FT IN i1950

#### Survey Summary

**Survey Position:** 40:27:16.6 N, 073:54:12.0 W  
**Least Depth:** 19.88 m (= 65.22 ft = 10.870 fm = 10 fm 5.22 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 1.002$  m ; TVU (TPEv)  $\pm 0.235$  m  
**Timestamp:** 2008-193.13:56:48.834 (07/11/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-193 / 949\_1356  
**Profile/Beam:** 412/160

**Charts Affected:** 12327\_1, 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

No sign of charted wreck in this data set. This is, however, the very western edge of the current survey. More data should be collected to the west before determination is made regarding AWOIS 1606.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-193/949_1356	412/160	0.00	000.0	Primary
ChartGPs - ENC US5NY1BM	Danger 8	72.89	055.4	Secondary (grouped)
AWOIS_B310-TJ-08	AWOIS # 1606	82.88	047.5	Secondary

**Hydrographer Recommendations**

[None]

**S-57 Data**

- Geo object 1:** Sounding (SOUNDG)
- Attributes:**
  - QUASOU - 6:least depth known
  - TECSOU - 3:found by multi-beam
  - VERDAT - 12:Mean lower low water

**Office Notes**

Concur. Search radius not completely covered. Chart sounding data.

### 3.38) AWOIS 7936: Obstn 8645/226

#### Primary Feature for AWOIS Item #7936

**Search Position:** 40:27:21.7 N, 073:53:14.3 W  
**Historical Depth:** 18.93 m  
**Search Radius:** 50  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

H10224/86-88--OPR-C121-WH-86-88; DEVELOPMENT 156A; SIDE SCAN SONAR LINES IDENTIFIED CONTACTS IN THE MIDDLE OF THE SHEET REQUIRING DEVELOPMENT; OBSTRUCTION FOUND IN LAT 40-27-21.06N, LONG 73-53-15.73W (NAD27) WITH 62 FT ECHOSOUNDER DEPTH; TIME DID NOT ALLOW DIVER INVESTIGATION; HYDROGRAPHER AND EVALUATOR RECOMMENDED CHARTING 62 OBSTR AS SHOWN ON PRESENT SURVEY. (ENTERED MSD 4/91) S00003/03 -- S-B601-RU-02/03 HLS; Survey Position: 040° 27' 21.645" N, 73° 53' 14.250" W Least Depth: 18.93 m Timestamp: 2003-153.21:33:21.575 (06/02/2003) Charted Obstn developed with SWMB - Similar "deposits" exist between this contact and Sandy hook Channel. The hydrographer believes that these are dump sites or spoils of some kind. Updated 9/11/2006 JCM

#### Survey Summary

**Survey Position:** 40:27:21.6 N, 073:53:14.2 W  
**Least Depth:** 18.79 m (= 61.65 ft = 10.275 fm = 10 fm 1.65 ft)  
**TPU (±1.96σ):** THU (TPEh) ±1.014 m ; TVU (TPEv) ±0.182 m  
**Timestamp:** 2008-179.20:24:56.466 (06/27/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-179 / 772\_2016  
**Profile/Beam:** 8645/226  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Spoil pile. Minimum depth similar to charted depth.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-179/772_2016	8645/226	0.00	000.0	Primary
AWOIS_B310-TJ-08	AWOIS # 7936	0.59	116.7	Secondary (grouped)
h11916/tj_s222_klein5000_sss100/2008-168/549_1406	0001	2.90	207.0	Secondary (grouped)

## Hydrographer Recommendations

[None]

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

61ft (12326\_1)

10 ¼fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

18.8m (5161\_1)

## S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
TECSOU - 2,3:found by side scan sonar,found by multi-beam  
VALSOU - 18.791 m  
VERDAT - 12:Mean lower low water  
WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Update least depth and position of charted obstruction.

### 3.39) AWOIS: 1619, 13596/13

#### Primary Feature for AWOIS Item #1619

**Search Position:** 40:27:51.3 N, 073:52:30.2 W  
**Historical Depth:** 15.85 m  
**Search Radius:** 50  
**Search Technique:** s2  
**Technique Notes:** [None]

#### History Notes:

HISTORY ■ FE101/51(F.E. NO. 10, 1951)--CS-326; ITEM 85 OF SUPPLEMENTAL INSTRUCTIONS ■ FOR PROJECT CS-326, DATED 12 DEC. 1950; WRECK, BELIEVED TO BE DERRICK BARGE ■ B.D. 1738 LOCATED IN LAT. 40-27-54N, LONG. 73-52-34W. HUNG AT AN ■ EFFECTIVE DEPTH OF 55.2 FT. CLEARED TO AN EFFECTIVE DEPTH OF 49 FT. CHARTED ■ AS WRECK CLEARED 49 FT. ECHO SOUNDER DEPTH OBTAINED DURING RECON. HYDRO. OF ■ 57 FT. IN 60 TO 63 FT. ■ CL776/50--ABOVE INFO. MADE INTO CHART LETTER ■ H10224/86--OPR-C121-WH-86; WRECKAGE WITH 52 FT PNEUMATIC DEPTH ■ GAUGE LEAST DEPTH, WHICH IS BELIEVED TO BE THIS ITEM, WAS LOCATED ■ IN LAT 40-27-50.94N, LONG 73-52-31.72W (NAD27), APPROXIMATELY 100M SW OF ■ AWOIS POSITION; DIVERS FOUND THE WRECK OF A BARGE, APPROXIMATELY ■ 20X45 M; THREE BOILERS AND NUMEROUS OTHER TYPES OF SHIPYARD DEBRIS ■ WERE FOUND STREWN OVER AN AREA OF 360X165 FT; IN THE NW CORNER OF THE ■ SITE THE REMAINS OF ANOTHER WRECK WAS FOUND WITH ONLY THE SHELL PLATING ■ AND FLOOR FRAMING REMAINING; APPROXIMATELY 200FT LONG, 27FT BEAM ■ AND SHELL PLATING EXTENDING 5FT ABOVE THE BOTTOM; BOTH ENDS OF ■ THE WRECK TAPERED INTO THE SAND WITH NO BOW OR STERN VISIBLE; ONE ■ OBJECT CONSISTING OF GUARD RAIL TYPE METAL, APPROXIMATELY 2 FT ■ WIDE, 3/8 INCH THICK, AND 40 FT LONG, FORMING A 60 DEGREE ARCH ■ WITH THE MIDDLE STANDING 10 FT OFF THE BOTTOM; SITE CONSISTED OF ■ TWO WRECKS AND SHIPYARD DEBRIS, INCLUDING A BOOM CRANE; LEAST ■ DEPTH TAKEN ON THE TOP OF THE BOILER LOCATED AT THE NORTHEAST ■ SECTION OF SITE; EVALUATOR RECOMMENDED DELETING CHARTED SYMBOL, AND ■ CHARTING 52WK AS SHOWN ON PRESENT SURVEY. (UPDATED MSD 4/91) ■ ■ DESCRIPTION ■ 24 NO. 562; BARGE, SUNK 1946 BY MARINE CASUALTY; POS. ACCURACY WITHIN ■ 1 MILE; WD CLEARANCE ■ TO 50 FEET. (SOURCE UNKNOWN).

#### Survey Summary

**Survey Position:** 40:27:51.4 N, 073:52:30.5 W  
**Least Depth:** 16.47 m (= 54.03 ft = 9.005 fm = 9 fm 0.03 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 1.018$  m ; TVU (TPEv)  $\pm 0.162$  m  
**Timestamp:** 2008-179.20:30:24.064 (06/27/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-179 / 772\_2016  
**Profile/Beam:** 13596/13  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

100 meter long wreck. Current survey shows the least depth to agree with the chart.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-179/772_2016	13596/13	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-168/549_1405	0002	2.78	231.5	Secondary
AWOIS_B310-TJ-08	AWOIS # 1619	8.16	280.0	Secondary (grouped)

**Hydrographer Recommendations**

[None]

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

54ft (12326\_1)

9fm (12300\_1, 13006\_1, 13003\_1, 14500\_1)

16.5m (5161\_1)

**S-57 Data**

**Geo object 1:** Wreck (WRECKS)

**Attributes:** CATWRK - 2:dangerous wreck

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

VALSOU - 16.468 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

**Office Notes**

Do not concur. Least depth deeper than charted sounding. Update least depth and position of charted wreck.

**Feature Images**

[Image file t:/sar/h11916\_b310-tj/ahb\_h11916/pss/images/wreck\_awois\_1619.jpg does not exist.]

### 3.40) AWOIS: 9737, 8916/138

#### Primary Feature for AWOIS Item #7937

**Search Position:** 40:28:16.7 N, 073:50:56.9 W  
**Historical Depth:** 21.34 m  
**Search Radius:** 50  
**Search Technique:** s2  
**Technique Notes:** [None]

**History Notes:**

H10224/86-88--OPR-C121-WH-86-88; DEVELOPMENT 169; SIDE SCAN SONAR, ECHOSOUNDER AND DIVER INVESTIGATION OF CONTACT FOUND IN 1987; DIVERS FOUND A FULL LENGTH OF ANCHOR CHAIN WITH 15 INCH STUD LINKS; KNOT IN MIDDLE OF CHAIN STANDING 2.5 FT ABOVE THE SURROUNDING SAND BOTTOM; ECHOSOUNDER LEAST DEPTH OF 70 FT IN LAT 40-28-16.27N, LONG 73-50-58.41W (NAD27); HYDROGRAPHER AND EVALUATOR RECOMMENDED CHARTING 70 OBSTR AS SHOWN ON PRESENT SURVEY. (ENTERED MSD 4/91)

#### Survey Summary

**Survey Position:** 40:28:15.9 N, 073:50:59.1 W  
**Least Depth:** 21.48 m (= 70.47 ft = 11.745 fm = 11 fm 4.47 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 1.001$  m ; TVU (TPEv)  $\pm 0.242$  m  
**Timestamp:** 2008-168.06:24:10.984 (06/16/2008)  
**Survey Line:** h11916 / tj\_s222\_reson7125\_port / 2008-168 / 536\_0612  
**Profile/Beam:** 8916/138  
**Charts Affected:** 12326\_1, 12300\_1, 13006\_1, 5161\_1, 13003\_1, 14500\_1

**Remarks:**

Debris, possible anchor. Insignificant.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11916/tj_s222_reson7125_port/2008-168/536_0612	8916/138	0.00	000.0	Primary
h11916/tj_s222_klein5000_sss100/2008-167/535_2144	0002	7.13	348.0	Secondary (grouped)
AWOIS_B310-TJ-08	AWOIS # 7937	57.69	247.7	Secondary (grouped)
h11916/tj_s222_klein5000_sss100/2008-167/535_2144	0001	160.59	226.0	Secondary (grouped)

## Hydrographer Recommendations

[None]

### S-57 Data

**Geo object 1:** Sounding (SOUNDG)  
**Attributes:** QUASOU - 6:least depth known  
TECSOU - 3:found by multi-beam  
VERDAT - 12:Mean lower low water

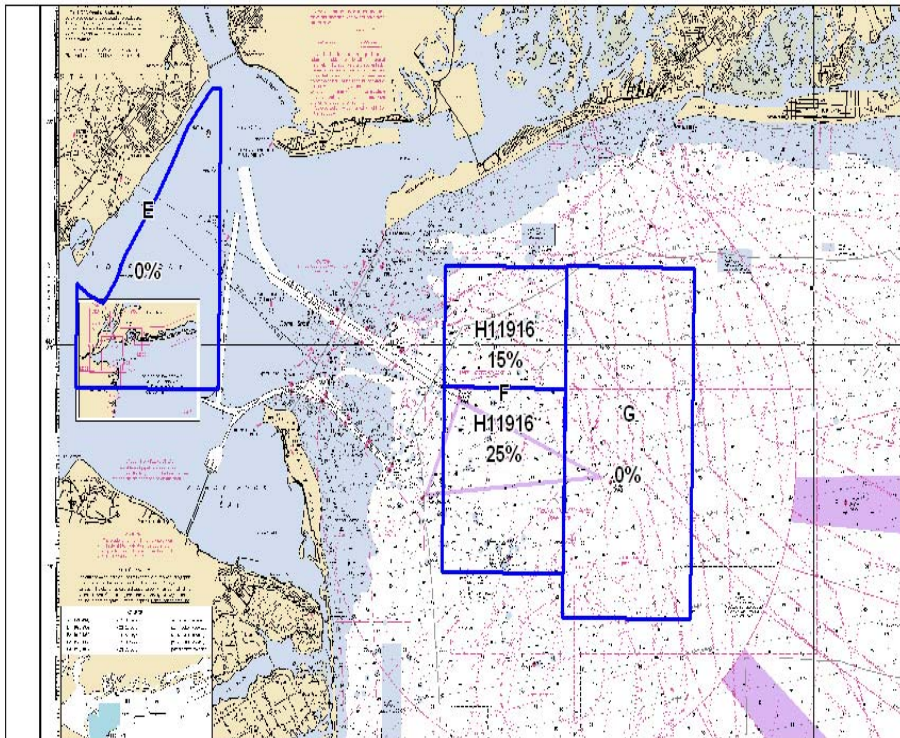
### Office Notes

Concur. Chart sounding data.



# Appendix III

## Progress Sketch



Project	Sheet_Letter	H_num	HQ_Est_SNM	CumlPercCompPrev	CumlPercCompCu	SNM_CompCur	CumSNMcom
B310-TJ-08	G		30	0	0	0	0
B310-TJ-08	E		17	0	0	0	0
B310-TJ-08	F	H11916	15	75	25	4	100
B310-TJ-08		H11916	10	85	15	2	100

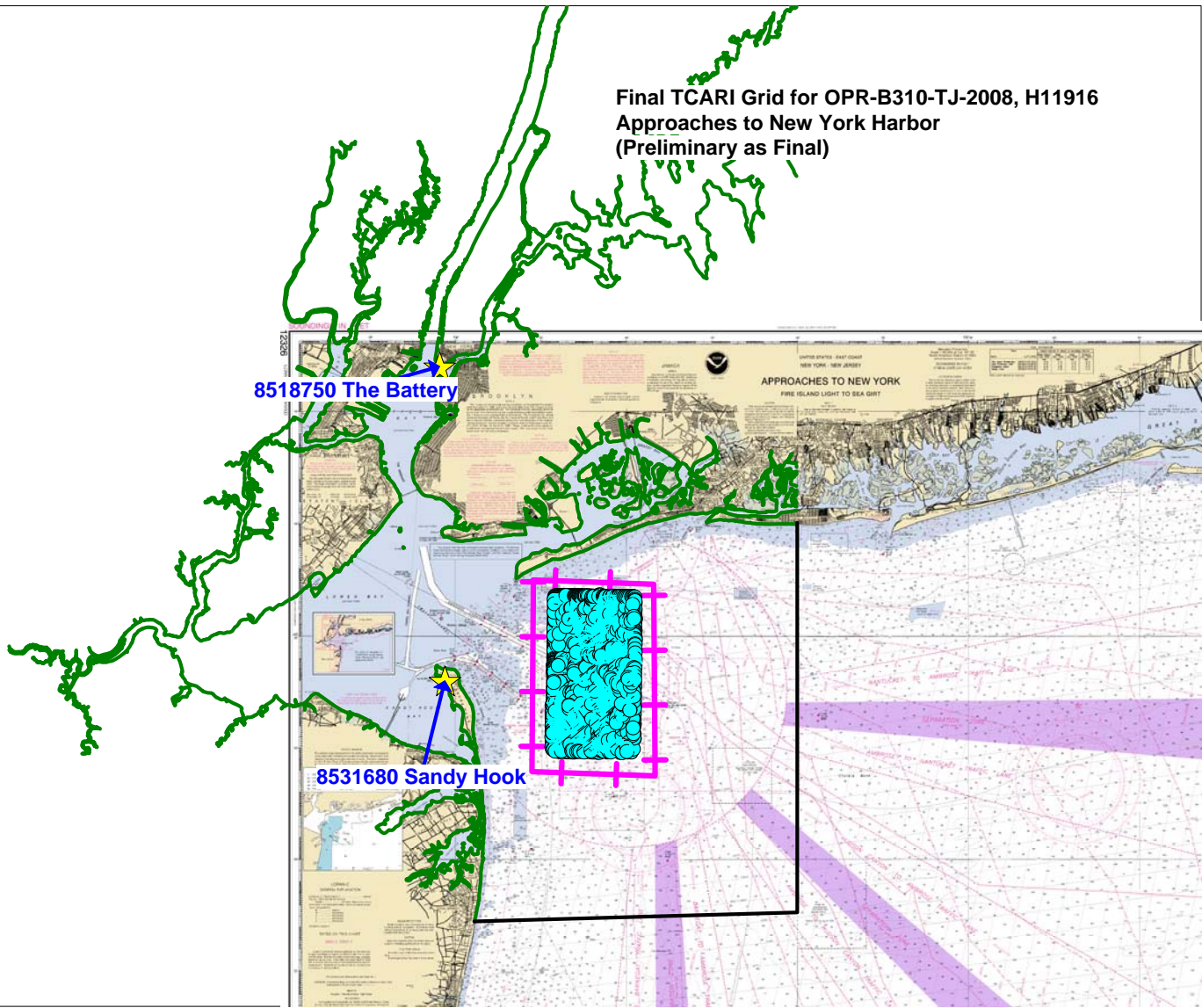
Progress Sketch OPR-B310-TJ-08  
July 2008



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



**Final TCARI Grid for OPR-B310-TJ-2008, H11916  
Approaches to New York Harbor  
(Preliminary as Final)**



**ATLANTIC HYDROGRAPHIC BRANCH  
EVALUATION REPORT to ACCOMPANY  
SURVEY H11916 (2008)**

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

**A. AREA SURVEYED**

No changes from DR.

**B. DATA ACQUISITION AND PROCESSING**

**B.1 DATA PROCESSING**

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

HSTP PYDRO version 8.7 r2537  
CARIS HIPS/SIPS version 6.1 SP2  
CARIS Bathy Manager version 2.1 SP1  
DKART INSPECTOR, version 5.0 Build 732 SP1  
CARIS HOM version 3.3 SP3  
CARIS S57 Composer version 2.0  
FLEDERMAUS version 6.7

**B.2. QUALITY CONTROL**

**B.2.1. H-Cell**

The final bathymetric resolution CUBE surface from the review of this survey was 2-meters, broken up into 6 different areas to facilitate manageable data handling. In addition, a single combined surface was generated at 5-meter resolution. This combined surface was used for product surface generalization.

The dense sounding selection was generated from this product surface at a 100m shoal-biased radius. In order to create depth contours, first a TIN was made from the dense sounding selection. A surface was interpolated from this TIN at a 50m resolution, and this interpolated surface was then shifted by a factor of -0.229 to account for NOAA's rounding practices when creating contours. Finally, the contours were generated from this shifted, interpolated, TIN surface. The chart soundings were then selected from the dense sounding selection with the aid of the contours, and using AHB best practices.

Another set of contours were generated directly from the product surface, but these contours were not used. However the area object created from this contour

generation was used to define the boundaries of the meta objects M\_COVR and M\_QUAL. This area object was also used to define the feature area object DEPARE.

The very northern border of the survey area slightly overlaps with the 1:20,000 scale chart 12350, but this area of overlap is minimal enough such that compilation of the H-Cell at a 1:20,000 scale is not justified – only a few, if any, of the soundings from chart 12350 would be superseded. However, a significant portion of the survey area is encompassed by the 1:40,000 scale chart 12327, while the remainder is encompassed by the 1:80,000 scale chart 12326. Hence, the H-Cell was compiled at a 1:40,000 scale, and a M\_CSCL meta object was created to represent the portion of the survey area to be applied at a scale of 1:80,000.

The pre-compilation components of the H-cell include the sounding selection and chart sounding selection (SOUNDG), features (SBDARE, DEPARE, DEPCNT, OBSTRN, UWTRC, WRECKS), meta objects (M\_COVR, M\_QUAL, M\_CSCL), and cartographic blue notes (\$CSYMB). All the components with the exception of the dense sounding selection were inserted into one feature layer, and this layer was exported into S-57 format in order to create the H-Cell deliverable. Similarly, the dense sounding selection was exported into S-57 format separately, and then both S-57 files were processed in CARIS HOM to convert the metric units to feet. The final products are two S-57 files, one that contains the chart soundings, all the features, meta objects, and blue notes (H11916\_CS.000), and one that contains the dense sounding selection (H11916\_SS.000). Finally, quality assurance checks were made utilizing both DKART Inspector version 5.0 and CARIS S-57 Composer version 2.0 validation checks.

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

**The H11916 CARIS H-Cell final deliverables include the following products:**

H11916_CS.000	1: <u>40</u> ,000 Scale	H11916 H-Cell with Chart Scale Selected Soundings
H11916_SS.000	1: <u>10</u> ,000 Scale	H11916 Selected Soundings (Survey Scale)

**B.22. Junctions**

Survey H11916 junctions with 2007 *Thomas Jefferson* survey H11709 to the west, adequately explained in section B 2.4 of the DR.

**C. VERTICAL AND HORIZONTAL CONTROL**

Final corrections were applied by the field unit and no other tidal corrections were required.

**D. RESULTS AND RECOMMENDATIONS**

## **D.1 CHART COMPARISON**

### **Chart 12350, 59th Edition, 03/01/2006**

Corrected through NM 11/01/2008  
Corrected through LNM 10/21/2008  
Scale 1:20,000

### **Chart 12327, 101<sup>st</sup> Edition, 04/01/2008**

Corrected through NM 11/15/2008  
Corrected through LNM 11/04/2008  
Scale 1:40,000

### **Chart 12326, 50<sup>th</sup> Edition, 05/01/2006**

Corrected through NM 10/25/2008  
Corrected through LNM 10/21/2008  
Scale 1:80,000

## **ENC Comparison**

### **US5NY50M**

Jamaica Bay and Rockaway Inlet  
Edition 7  
Application Date 2008-02-07  
Issue Date 2008-12-09  
Chart 12350

### **US5NY1BM**

New York Harbor  
Edition 17  
Application Date 2008-11-18  
Issue Date 2008-11-18  
Chart 12327

### **US4NY1AM**

Approaches to New York Fire Island Light to Sea  
Girt  
Edition 12  
Application Date 2008-10-27  
Issue Date 2008-10-29  
Chart 12326

Note: The largest scale raster chart listed above is chart 12350, and this scale is 1:20,000. As explained above, only a very minimal area of chart 12350 overlaps with the northern boundary of the survey limits of H11916. The area is minimal such that very few, or perhaps none, of the charted soundings of 12350 would be superseded. For this reason, the compilation scale for this H-Cell was chosen to be 1:40,000, which is the scale of the next largest scale raster chart, 12327. There is very significant overlap between chart 12327 and the survey area, which easily justifies usage of this compilation scale.

### **D.1.1 Hydrography**

## **D.2. ADDITIONAL RESULTS**

One area of particular interest during both the survey and the review was the Dump Site for dredged material located in the southeastern portion of the survey area. Obstructions in this area are significant, in excess of 10 feet of the bottom. To avoid cluttering the chart with obstructions, it was recommended during the review that just the sounding data be charted in this area. This is the course of action recommended for the chart, and is justified by the fact that this is already an area of caution and an established dumping site. In addition, chart 1326 note B designates this area as a danger area, open to unrestricted surface navigation, but all vessels are cautioned neither to anchor, dredge, trawl, lay cables, bottom nor conduct any other similar type of operation. The least depths from all of the obstructions present in this area are represented in the sounding selection.

There were two charted obstructions that were not addressed, obstructions at 40°30'10.84"N, 73°52'09.64"W and 40°30'01.39"N, 73°52'52.70"W. Both obstructions were found, however neither was deemed significant for charting. Blue notes were added in the locations of these obstructions to mark the recommendations for removal from the chart.

Bottom samples were only taken in the northern side of the survey area. These bottom samples will be used to update the charted bottom types. For the southern end of the survey area, it is recommended to retain the previously charted bottom types. The SBDARE feature objects representing the bottom types to be retained were imported from the ENC and reside in the H-Cell deliverable.

### **D.2.1. Aids to Navigation**

All Aids to Navigation should be retained as charted. See section D.4 of the DR.

## **D.3. MISCELLANEOUS**

Chart compilation was done by Atlantic Hydrographic Branch personnel, in Norfolk, Virginia. Compilation data will be forwarded to Marine Chart Division, Silver Spring, Maryland. See Section D.1. of this report for a list of the Raster Charts and Electronic Navigation Charts (ENC) used for compiling the present survey:

## **D.4. ADEQUACY OF SURVEY**

The present survey is adequate to supersede the charted bathymetry within the common area. Any features not specifically addressed either in the H-Cell BASE Cell File or the Blue Notes should be retained as charted. Refer to the Descriptive Report for further recommendations by the hydrographer.

**APPROVAL SHEET**  
**H11916**

**Initial Approvals:**

The completed survey has been inspected with regard to survey coverage, delineation of depth curves, representation of critical depths, cartographic symbolization, and verification or disproval of charted data. All revisions and additions made to the H-Cell files during survey processing have been entered in the digital data for this survey. The survey records and digital data comply with National Ocean Service and Office of Coast Survey requirements except where noted in the Descriptive Report and the Evaluation Report.

All final products have undergone a comprehensive reviews per the Hydrographic surveys Division Office Processing Manual and are verified to be accurate and complete except where noted.

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**Matthew J. Wilson**  
Physical Scientist  
Atlantic Hydrographic Branch

I have reviewed the H-Cell files, accompanying data, and reports. This survey and accompanying Marine Chart Division deliverables meet National Ocean Service requirements and standards for products in support of nautical charting except where noted.

Approved: \_\_\_\_\_  
**Shepard Smith**  
Commander, NOAA  
Chief, Atlantic Hydrographic Branch