

**H11512**

NOAA FORM 76-35A	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
<b>DESCRIPTIVE REPORT</b>	
<i>Type of Survey:</i>	<b>Basic Navigable Area</b>
<i>Registry Number:</i>	<b>H11512</b>
<b>LOCALITY</b>	
<i>State:</i>	MS
<i>General Locality:</i>	Gulf of Mexico
<i>Sub-locality:</i>	Horn Island Pass and Approaches
<b>2005</b>	
CHIEF OF PARTY <b>CAPT Emily B. Christman, NOAA</b>	
DATE	LIBRARY & ARCHIVES

NOAA FORM 77-28  
(11-72)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

REGISTRY NUMBER:

**HYDROGRAPHIC TITLE SHEET****H11512**

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

State: **Mississippi**

General Locality: **Gulf of Mexico**

Sub-Locality: **Horn Island Pass and Approaches**

Scale: **1:10,000** Date of Survey: **09/09/05 to 09/20/05**

Instructions Dated: **09/07/05** Project Number: **OPR-J376-TJ-05**

Change No.1 Dated: **N/A**

Change No.2 Dated: **N/A**

Vessel: **NOAA Ship THOMAS JEFFERSON, S-222**

Chief of Party: **CAPT Emily B. Christman, NOAA**

Surveyed by: **THOMAS JEFFERSON Personnel**

Soundings by: **Reson SeaBat 8101 multibeam sonar**  
**Reson SeaBat 8125 multibeam sonar**

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

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

Verification by: **Atlantic Hydrographic Branch**

Soundings in: **Meters *Feet* at MLLW**

## Remarks:

- 1) ***All Times are UTC.***
- 2) ***This is a Basic Navigable Area Hydrographic Survey.***
- 3) ***Projection is UTM Zone 16.***

***Bold italic red notes in the Descriptive Report were made during office processing.***

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**DESCRIPTIVE REPORT**  
to accompany  
HYDROGRAPHIC SURVEY H11512

Scale of Survey: 1:10,000  
Year of Survey: 2005  
NOAA Ship THOMAS JEFFERSON  
CAPT Emily B. Christman, Commanding

## A. AREA SURVEYED

This hydrographic survey was conducted in accordance with Hydrographic Survey Letter Instructions for project OPR-J376-TJ-05\*, Gulf of Mexico, Mississippi. The original instructions are dated September 7, 2005. \* *Data filed at the Atlantic Hydrographic Branch.*

This Descriptive Report pertains to sheet "A" of project H11512, which includes Horn Island Pass and approaches. The assigned registry number for this sheet is H11512, as prescribed in the Letter Instruction.

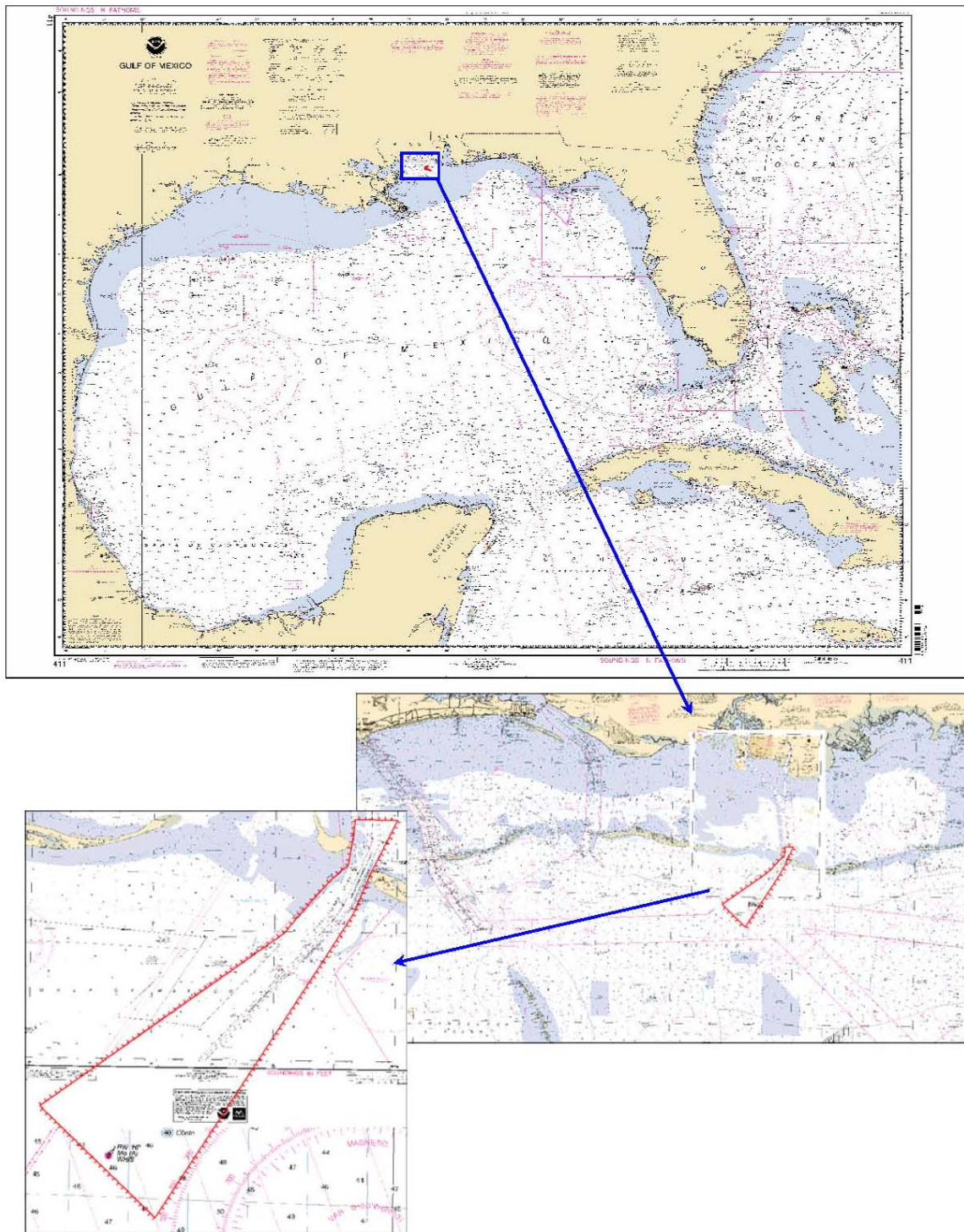
The purpose of CY 2005 survey operations in the Gulf of Mexico is as follows: (1) to address a specific request for updated surveys in the vicinity following hurricane activity and, (2) to provide contemporary surveys to update National Ocean Service (NOS) nautical charts.

For complete survey limits, see figure A-1 on the following page.

Linear nautical miles of single beam only sounding lines - mainscheme only	0
Linear nautical miles of multibeam only sounding lines - mainscheme only	752
Linear nautical miles of side scan sonar only lines - mainscheme only	134
Linear nautical miles of any combination of the above techniques	0
Linear nautical miles of crosslines from single beam and multibeam combined	19
Linear nautical miles of developments other than mainscheme lines	0
Linear nautical miles of shoreline/nearshore investigation	0
Number of bottom samples collected	0
Number of items investigated that required additional time/effort in the field beyond the above survey operations	0
Total square nautical miles	8

Dates of acquisition 9/9/2005 to 9/20/2005

Figure A-1. Overview of survey limits.



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

*See also Evaluation Report.*

### **EQUIPMENT**

Data were acquired by NOAA Launches 3101 and 3102. Both launches are NOAA's newly acquired 9.44-meter aluminum hulled Metalcraft Marine vessels with a typical 0.7-meter transducer draft.

Launch 3101 acquired shallow-water multibeam (SWMB) data. A Reson SeaBat 8125 multibeam system was used for SWMB hydrography. All positioning and attitude were determined with a TSS POS/MV 320 (version 4) GPS-aided inertial navigation system.

Launch 3102 acquired SWMB and side scan SONAR (SSS) data. A Klein 5000 SSS was hull mounted during data acquisition, and a Reson SeaBat 8101 multibeam system was used for SWMB hydrography. Positioning and attitude were determined with a TSS POS/MV 320 (version 3) GPS-aided inertial navigation system.

No unusual vessel configurations or problems were encountered. Refer to the Data Acquisition and Processing Report (DAPR)\* for detailed equipment and vessel configuration information.

*\* Data filed at the Atlantic Hydrographic Branch.*

### **QUALITY CONTROL**

#### **Side Scan Sonar Quality Control**

Daily confidence checks were made by observing the outer ranges of the side scan sonar images. A good check consisted of distinguishing contacts or sand waves across the entire range of the side scan trace. No unusual problems were encountered.

## Shallow Water Multibeam Quality Control

Four problems were encountered during SWMB acquisition and processing. (1) The United States Army Corps of Engineers began dredging operations in the survey area near Horn Island Pass on DN 260. The presence of the dredge inhibited completion of the entire project area and introduced depth differences in the data related to the removal of dredged material (Figure B-1). (2) There existed sounding discrepancies between the 8101 and 8125. In areas where there was coverage overlap between the platforms the 8125 consistently returned soundings up to 40 cm shallower than those of the 8101 (Figure B-2). However it was also noted that along the edges of the channel and on hard substratum, e.g. buoy blocks the discrepancy was not as prevalent (Figure B-3). The difference in frequency between the two systems may have resulted in slight penetration of a semi-aqueous bottom leading to the incongruity between platforms. The difference may also have been caused by an unresolved offset inaccuracy. The data were within IHO specifications. (3) Sixteen lines were omitted from the dataset (Table B-1). These data, acquired by launch 3101, were believed to be spurious. Positioning information was of suspect quality due to frequent loss of differential correctors and high HDOP at the time of acquisition. (4) There was at times unexplained loss of data or “stutter” in coverage (Figure B-4) this may have been caused by overloading the ISIS CPU with tasks during acquisition, e.g. downloading a CTD cast, saving the acquisition log and etc. while actively acquiring data.

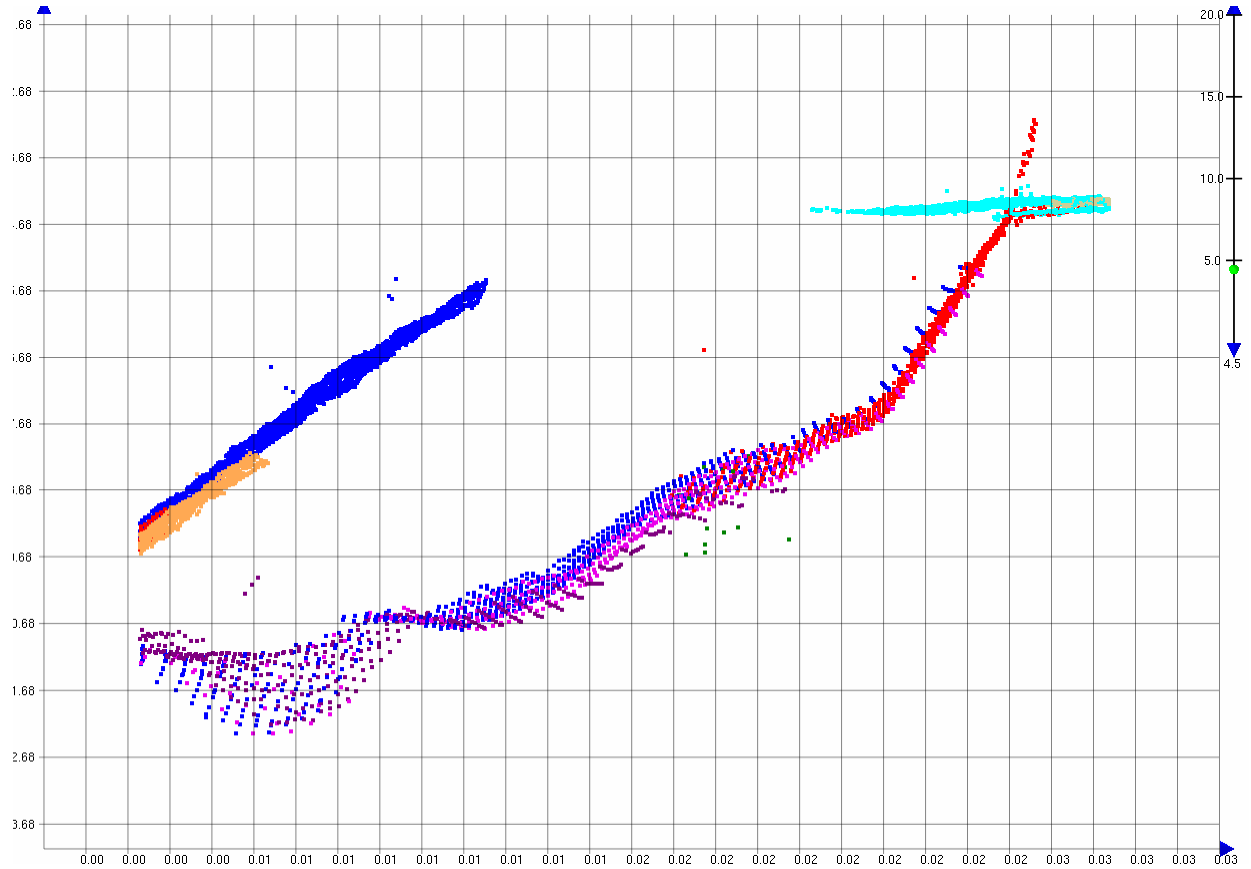
For detailed discussion of SWMB system calibrations, data acquisition, and data processing refer to this project’s DAPR.\*

***\* Data filed at the Atlantic Hydrographic Branch.***

Table B-1. List of lines omitted from dataset.

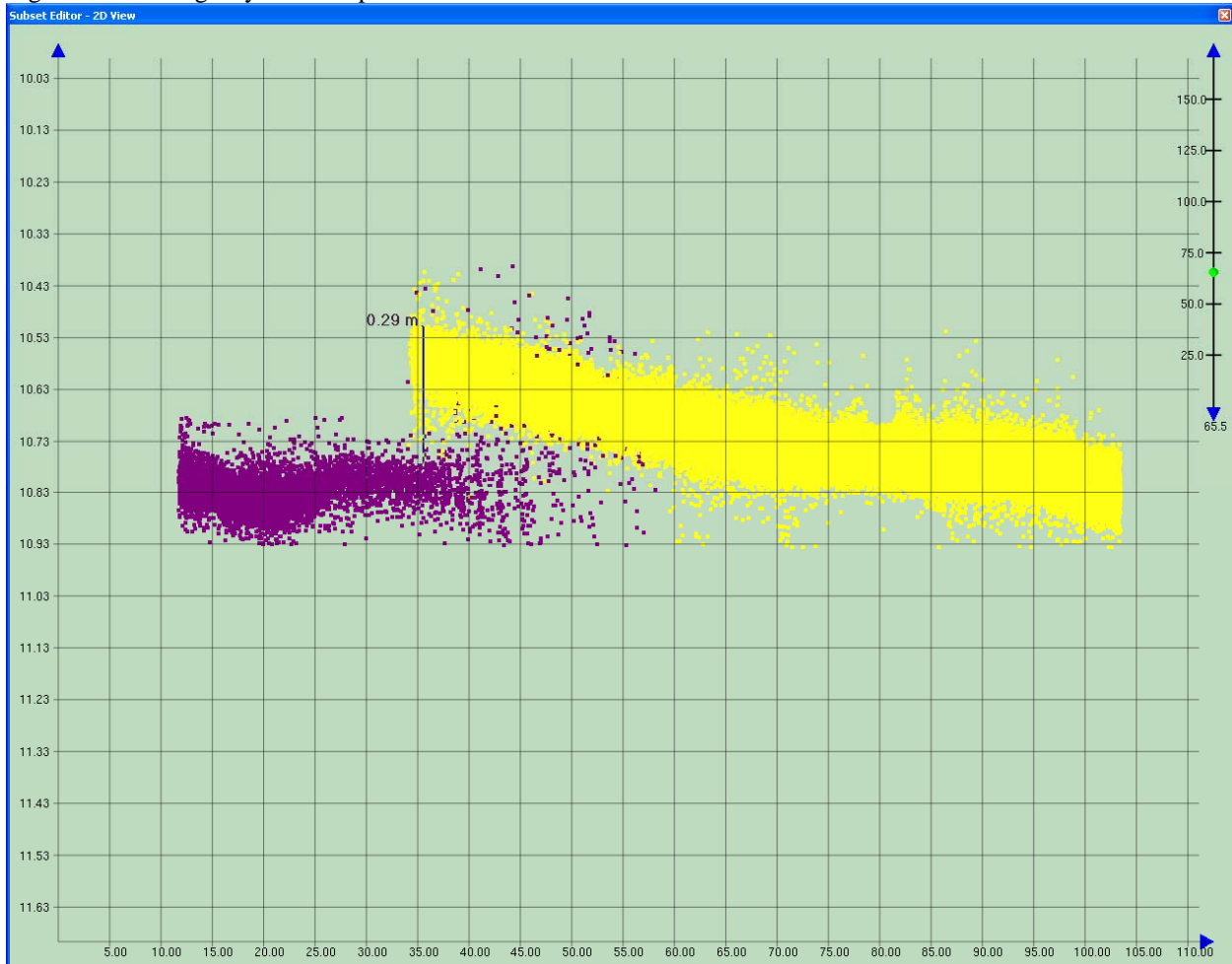
Vessel and SONAR	Day	Line
TJ_3101_RESON8125	2005-262	193_1338
TJ_3101_RESON8125	2005-262	194_1345
TJ_3101_RESON8125	2005-262	195_1353
TJ_3101_RESON8125	2005-262	196_1401
TJ_3101_RESON8125	2005-262	197_1409
TJ_3101_RESON8125	2005-262	198_1417
TJ_3101_RESON8125	2005-262	199_1443
TJ_3101_RESON8125	2005-262	200_1452
TJ_3101_RESON8125	2005-262	201_1506
TJ_3101_RESON8125	2005-262	202_1513
TJ_3101_RESON8125	2005-262	203_1521
TJ_3101_RESON8125	2005-262	204_1529
TJ_3101_RESON8125	2005-262	205_1536
TJ_3101_RESON8125	2005-262	206_1638
TJ_3101_RESON8125	2005-262	288_1458

Figure B-1: Dredge operations in Horn Island Pass



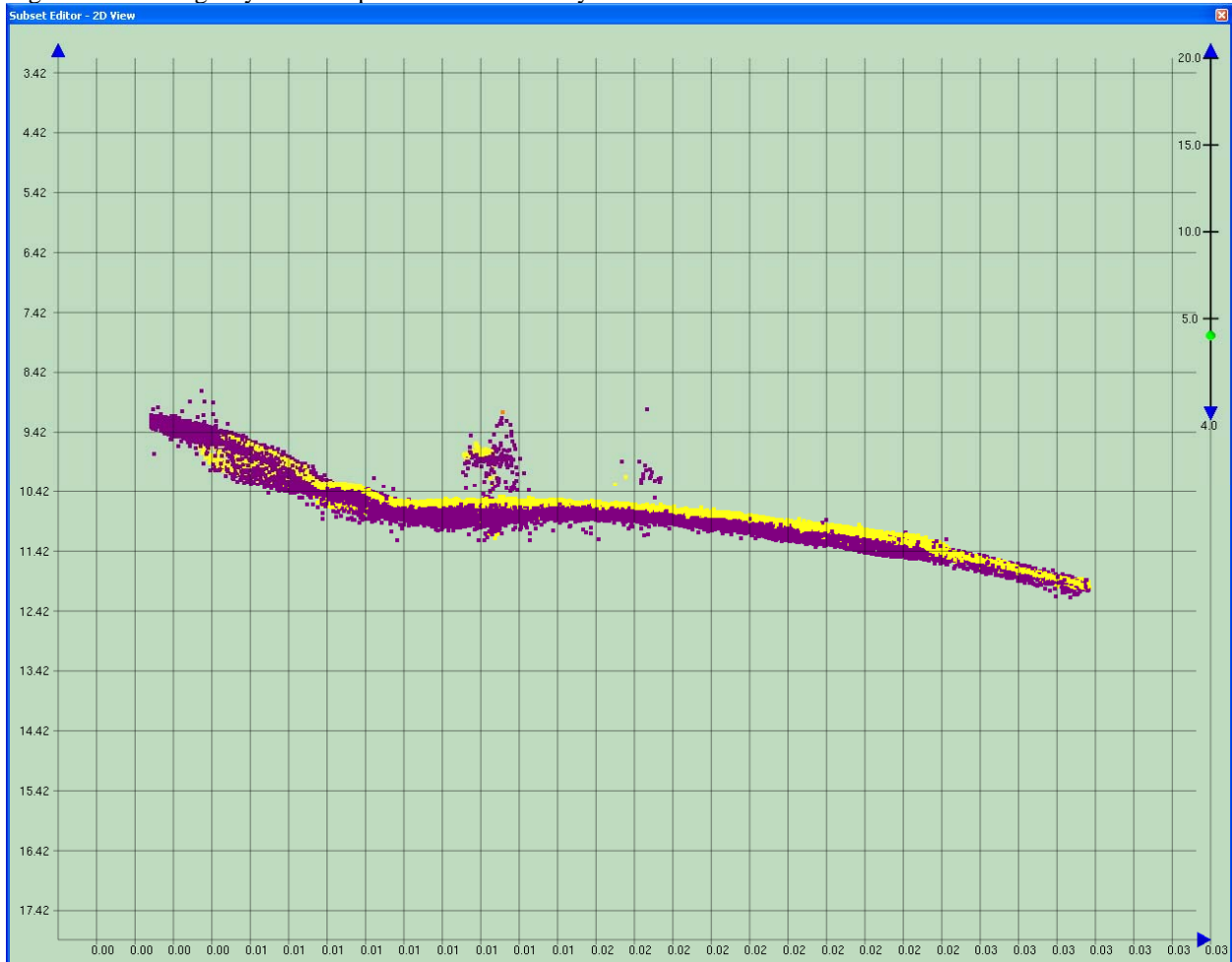
Bathymetry data from Horn Island Pass - in cross section; the depth differences are caused by dredge operations in the area.

Figure B-2: Incongruity between platforms – over flat surface



Here data from the 8125 (yellow) returns soundings approximately 30cm shallower than those of the 8101. The above is approximately 56% of the allowable error for IHO S-44 order 1.

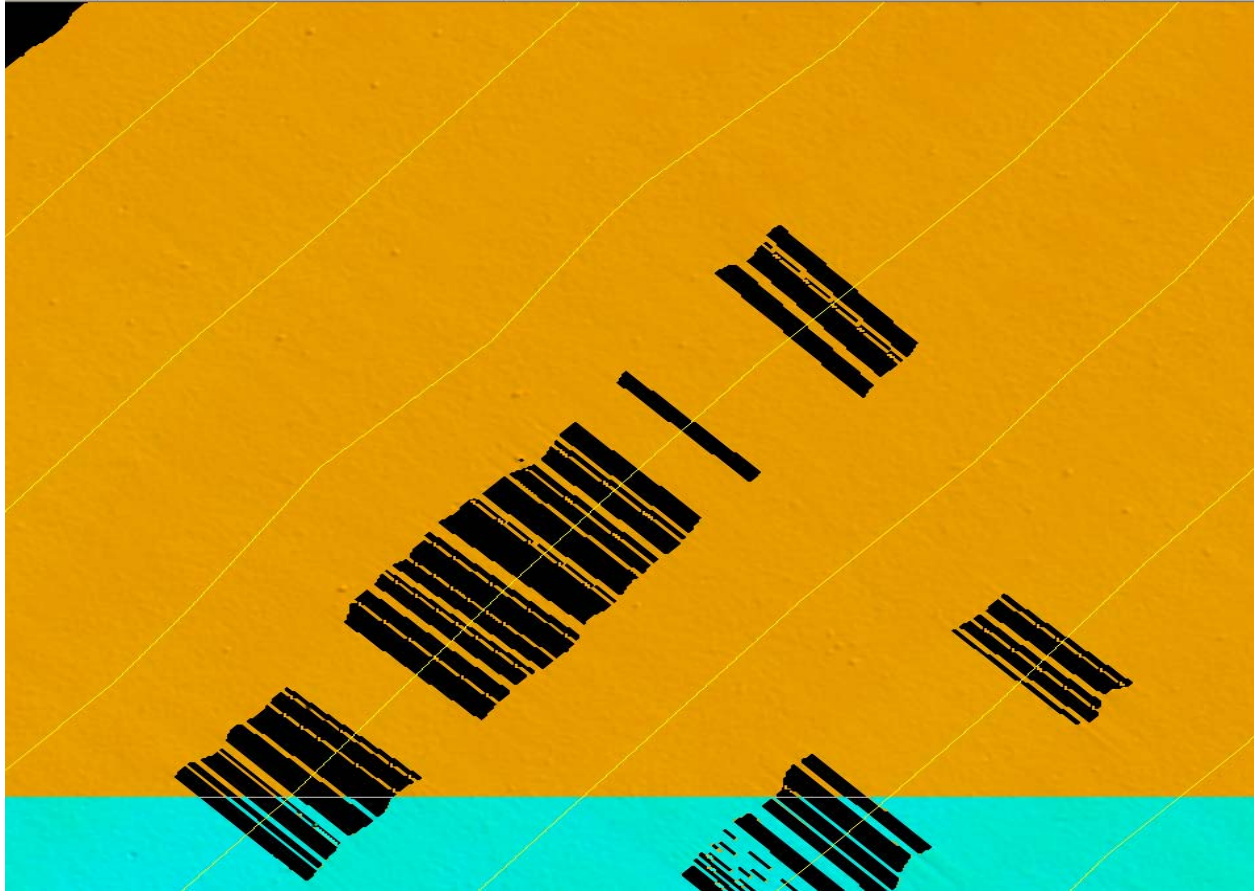
Figure B-3: Incongruity between platforms – over buoy block



Shown here at the edge of a dredged channel and over a buoy block, the discrepancy between the two SONARs is almost nil.



Figure B-4: Data dropout



Intermittent loss of data believed to be caused by overloading the acquisition computer.

### **CUBE Surfaces**

Caris HIPS CUBE (Combined Uncertainty Bathymetry Estimator) surfaces were created using cube parameters provided by LCDR Shepard M. Smith on November 22, 2005. Surfaces using 8101 data were created at 80cm resolution; surfaces using 8125 data were created at 40cm resolution. In the area around Horn Island pass fieldsheets were made at 40cm resolution for both 8101 and 8125 data. The surfaces were combined at 2m resolution. See table B-2 for a complete listing of fieldsheets and resolutions.

### **Crosslines**

Crosslines from the same platform agreed with mainscheme lines (appx 10% of allowed error IHO order 1) however, as is stated above, crosslines from differing platforms disagreed by as much as 40cm. This was, however, within the error budget (appx 77% of allowed error for IHO order 1). *Concur.*



## Junctions

No contemporary surveys were available for junction comparisons.

## **CORRECTIONS TO ECHO SOUNDING**

All methods or instruments used were as described in the project DAPR\*. All sound velocity casts are included in Pydro PSS.

*\* Data filed at the Atlantic Hydrographic Branch.*

Table B-2: A complete listing of all fieldsheets and the resolutions of the surfaces contained therein.

FieldSheet	Resolution
<b>H11512_Combined1_2m</b>	2m
H11512_1	40cm
H11512_2	40cm
<b>H11512_Combined2_2m</b>	2m
H11512_3_2	40cm
H11512_3_3_1	40cm
H11512_3_3_2	40cm
H11512_3_4	40cm
<b>H11512_Combined3_2m</b>	2m
H11512_3_1	40 + 80cm
H11512_4_1	40 + 80cm
H11512_4_2	40 + 80cm
H11512_5_1	40 + 80cm
H11512_5_2	40 + 80cm
<b>H11512_Combined4_2m</b>	2m
H11512_6	40 + 80cm
H11512_7_1	40 + 80cm
H11512_7_2	40 + 80cm
H11512_8_1	40cm
H11512_8_2	40cm
<b>H11512_Combined5_2m</b>	2m
H11512_9_1	40cm
H11512_9_2	40 + 80cm
H11512_9_3	40 + 80cm
H11512_10_1	40cm
H11512_10_2	40cm
H11512_10_3	40cm
H11512_11_1	40cm
H11512_11_2	40cm
H11512_12_1	40cm
H11512_12_2	40cm

FieldSheet	Resolution
<b>H11512_Combined6_2m</b>	2m
H11512_13_1	80cm
H11512_13	80cm
H11512_14_1	40+80cm
H11512_14_2	40+80cm
H11512_15_1	40cm
H11512_15_2	40cm
H11512_16_1	40cm
H11512_16_2	40cm
H11512_17	40cm
<b>H11512_Combined7_2m</b>	2m
H11512_18	80cm
H11512_19_1	80cm
H11512_19_2	80cm
H11512_20_1	40 + 80cm
H11512_20_2	40 + 80cm
H11512_21_1	40 + 80cm
H11512_21_2	40cm
H11512_22	40cm
<b>H11512_Combined8_2m</b>	2m
H11512_23	40+80cm
H11512_24_1	40+80cm
H11512_24_2	40+80cm
H11512_25_1	40cm
H11512_25_2	40cm
H11512_26	40cm
<b>H11512_Combined9_2m</b>	2m
H11512_27	40cm
H11512_28	40cm
H11512_29	40cm

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

### **VERTICAL CONTROL**

The tidal datum for this project is Mean Lower Low Water (MLLW). A Tertiary gauge at Pascagoula Point, MS (874-1533) served as control for datum determination. A temporary gauge at Dauphin Island, AL (873-5181) provided ancillary tide data.

A Request for Approved Tides letter was sent to N/OPS1 on September 26, 2005 (Appendix IV). Verified tides from the N/OPS1 CO-OPS website were downloaded on March 6, 2006, and applied to all sounding data. *Concur*

### **HORIZONTAL CONTROL**

The horizontal datum used for this survey is the North American Datum of 1983 (NAD 83), projected using UTM zone 16.

Sounding positional control was determined using the Global Positioning System (GPS) corrected by U.S. Coast Guard differential GPS (DGPS) beacon stations. The primary and secondary DGPS beacons used for this survey were Mobile Point, AL and English Turn, LA respectively. No horizontal control stations were established for this survey, and leveling was not performed

Horizontal dilution of precision (HDOP) was monitored daily on both launches. That value did not exceeded 2.5, and adequate satellite coverage was maintained throughout the survey period. *Concur*

## D. RESULTS AND RECOMMENDATIONS

### CHART COMPARISON

There are ~~two~~ *three* charts affected by this survey:

11373

*11374*

11375

### General Agreement with Charted soundings

Sounding data generally agreed with charted depths. Discrete differences are addressed in the “AWOIS Item Investigations”, “Dangers to Navigation” and “Charted Features” sections of appendix 2.

### AWOIS Items and Significant Contacts

There were 18 AWOIS items within the survey limits, 10 full investigation and 8 informational. Of the 10 full investigation items 7 were disproved. Section 1 of Appendix 2 addresses the full investigation items. *Concur*

### Dangers to Navigation

There were no DTONs in this sheet.

### Charted Features

There are no wire drag items, or any other charted features, that needed disproving on this survey. All other point features are addressed in section 2 of Appendix 2. *Concur*

### Charting Recommendations

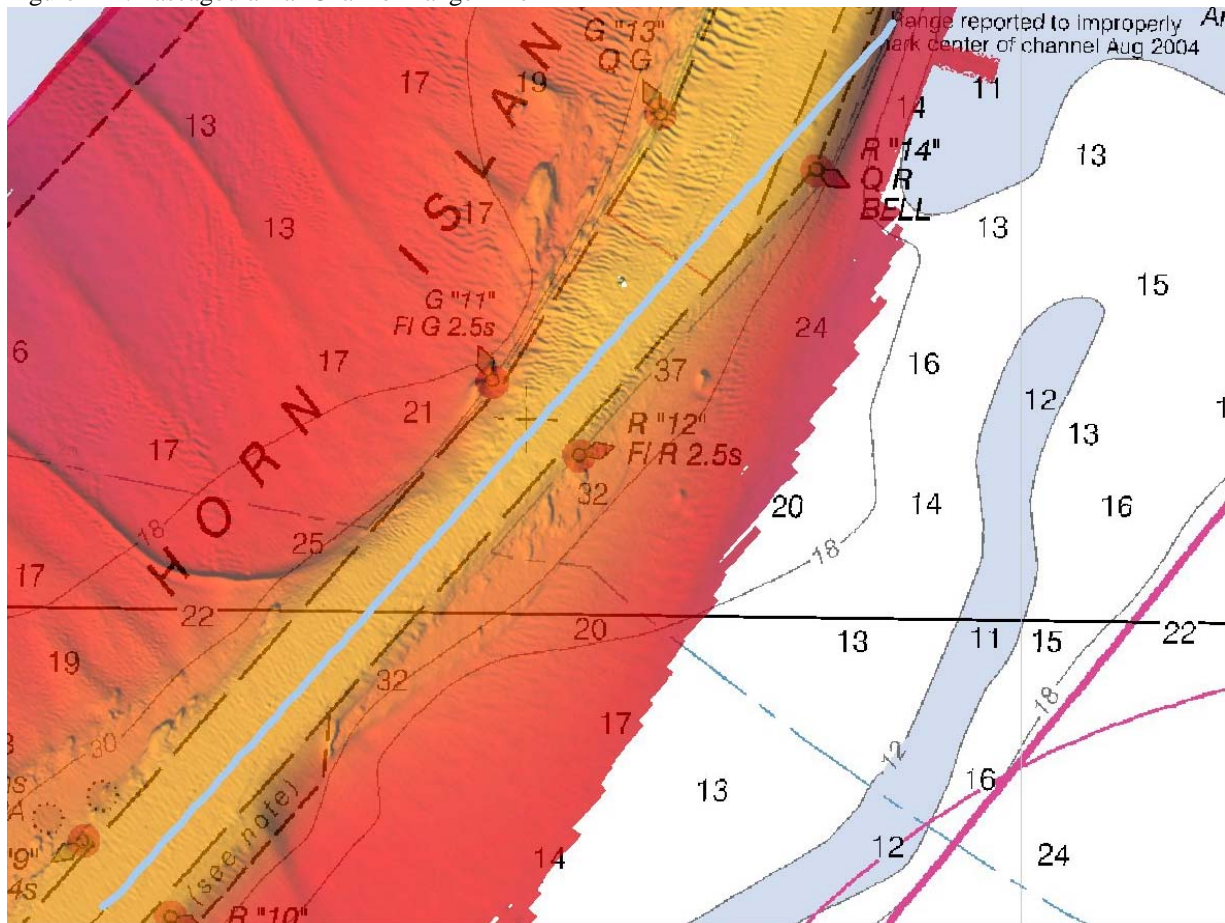
The hydrographer recommends extending chart 11375 south to the to the “HI” sea buoy. *Defer to MCD.*

## ADDITIONAL RESULTS

### Aids to Navigation and Other Detached Positions

(1) Pascagoula Bar Channel lighted buoy “7” is approximately 25m off station. (2) The range for Pascagoula bar channel is described on the chart as improperly marking the center of the channel. A line was logged while steering the range as was found to fall precisely on the charted centerline of the channel and in the center of the actual dredged channel (Figure D-1). The hydrographer recommends the note dated August 2004 (see figure D-1) be removed from the chart. *Defer to Marine Chart Division (MCD Update Services Branch for charting recommendations for Aids to Navigation.*

Figure D-1: Pascagoula Bar Channel Range Line



Track line of HSL 3101 while driving the Pascagoula Bar Channel range from buoy set “9” & “10” to buoy set “13” & “14” Overlaying Chart 11375 and DTM of the channel.

### Submarine Cables and Pipelines

There were no submarine cables or pipelines positioned during this survey, nor were any images of these items acquired on SSS. *Concur.*

**E. APPROVAL SHEET****OPR-J376  
Gulf of Mexico  
Mississippi****Horn Island Pass and Approaches  
Survey Registry No. H11512**


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.

Submitted in association with this descriptive report has been a series of reports and data  
OPR-J376-TJ-05 horizontal and vertical control report (submitted with this DR)  
Fall hydrographic systems certification report (effective date: 26 July 2005)  
Fall data acquisition and processing report (effective date: 26 July 2005)


This survey is adequate to supersede all prior surveys in common areas, and for application to the relevant NOS nautical charts.


Respectfully,

Submitted:

  
ENS Matthew Jaskoski, NOAA  
Hydrographer / Junior Officer

Approved and Forwarded:

  
LT Marc Moser, NOAA  
Field Operations Officer

  
for CAPT Emily B. Christman, NOAA  
Commanding Officer

## **APPENDIX I**

### **DANGER TO NAVIGATION**

No Danger To Navigation fwere submitted for survey H11512 .

## **APPENDIX II**

### Charted Features

.

# OPR-J376-TJ-05 H11512 Appendix 2 FEATURES

**Registry Number:** H11512  
**State:** MS  
**Locality:** Gulf of Mexico  
**Sub-locality:** Horn Isl. Pass and Approaches  
**Project Number:** OPR-J376-TJ-05  
**Survey Dates:** 9/9/2005 - 9/20/2005

## Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11375	36th	01/01/2005	1:20,000 (11375_1)	[L]NTM: ?
11374	34th	10/01/2007	1:40,000 (11374_1)	USCG LNM: 12/25/2007 (05/20/2008) NGA NTM: 11/18/2006 (05/24/2008)
11373	44th	01/01/2005	1:80,000 (11373_1)	[L]NTM: ?
11366	9th	03/01/2005	1:250,000 (11366_1)	[L]NTM: ?
11360	41st	03/01/2005	1:456,394 (11360_1)	[L]NTM: ?
1115A	41st	03/01/2005	1:456,394 (1115A_1)	[L]NTM: ?
11006	31st	09/01/2003	1:875,000 (11006_1)	[L]NTM: ?
411	49th	03/01/2003	1:2,160,000 (411_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	54-ft Obstn	Obstruction	16.50 m	30° 12' 57.6" N	088° 30' 34.1" W	---
1.2	Encroaching 38-ft shoal	Shoal	11.52 m	30° 12' 51.4" N	088° 30' 34.8" W	---
1.3	39-ft Obstn	Obstruction	11.99 m	30° 13' 25.5" N	088° 30' 16.3" W	---
1.4	Encroaching 18-ft Shoal	Shoal	5.45 m	30° 12' 41.2" N	088° 30' 37.1" W	---
1.5	40-ft Obstn	Obstruction	12.12 m	30° 11' 38.9" N	088° 31' 34.6" W	---
1.6	42-ft Obstn (associated with AWOIS #7945)	Obstruction	12.97 m	30° 11' 46.3" N	088° 31' 26.6" W	---
1.7	31 Obstn	Obstruction	9.44 m	30° 12' 12.2" N	088° 30' 50.0" W	---
1.8	23-ft Obstn	Obstruction	7.04 m	30° 12' 06.3" N	088° 30' 51.2" W	---
1.9	24-ft Wreck	Wreck	7.31 m	30° 12' 18.5" N	088° 30' 58.9" W	---



1.10	27-ft Obstn	Obstruction	7.28 m	30° 11' 54.8" N	088° 31' 41.1" W	---
1.11	18-ft Obstn	Obstruction	5.68 m	30° 13' 29.4" N	088° 30' 09.1" W	---
1.12	18-ft Obstn	Obstruction	5.48 m	30° 13' 33.8" N	088° 30' 09.6" W	---
1.13	Awois12613 28ft Obstn	Obstruction	8.70 m	30° 11' 24.9" N	088° 32' 39.2" W	12613
1.14	46-ft Obstn	Obstruction	13.99 m	30° 12' 28.1" N	088° 30' 44.9" W	---
1.15	31ft Obstn	Shoal	9.45 m	30° 11' 36.7" N	088° 31' 56.9" W	---
1.16	44-ft Obstn	Obstruction	13.17 m	30° 08' 13.3" N	088° 33' 40.0" W	---
1.17	43-ft Obstn	Obstruction	13.23 m	30° 08' 19.9" N	088° 33' 28.5" W	---
1.18	35-ft Obstn	Obstruction	11.26 m	30° 11' 17.6" N	088° 31' 43.7" W	---
1.19	13-ft Obstn	Obstruction	4.04 m	30° 13' 44.7" N	088° 30' 10.1" W	---
1.20	40-ft Obstn	Obstruction	12.41 m	30° 12' 57.4" N	088° 30' 40.1" W	---
1.21	41-ft Obstn	Obstruction	12.50 m	30° 12' 02.9" N	088° 31' 03.4" W	---
1.22	33-ft Obstn	Obstruction	10.11 m	30° 12' 01.7" N	088° 31' 02.2" W	---
1.23	41-ft Obstn	Obstruction	12.70 m	30° 11' 49.3" N	088° 31' 22.9" W	---
1.24	38-ft Obstn	Obstruction	11.78 m	30° 09' 50.8" N	088° 32' 50.1" W	---
1.25	42-ft Obstn (associated with AWOIS 7944 & 7946)	Obstruction	12.92 m	30° 11' 48.1" N	088° 31' 24.5" W	---
1.26	AWOIS #7944 38-ft Obstn	Obstruction	11.77 m	30° 11' 47.5" N	088° 31' 25.1" W	---
1.27	36-ft Obstn	Obstruction	11.04 m	30° 12' 04.7" N	088° 30' 59.5" W	---
1.28	34-ft Obstn	Obstruction	10.65 m	30° 12' 01.2" N	088° 31' 03.6" W	---
1.29	50-ft Obstn	Obstruction	15.35 m	30° 13' 00.3" N	088° 30' 36.5" W	---
1.31	41-Obstn	Sounding	12.61 m	30° 09' 48.1" N	088° 32' 54.3" W	---

## **1 - DR Appendix 2 FEATURES**

**1.1) 54-ft Obstrn****Survey Summary**

**Survey Position:** 30° 12' 57.6" N, 088° 30' 34.1" W  
**Least Depth:** 16.50 m (= 54.14 ft = 9.024 fm = 9 fm 0.14 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.981$  m ; **TVU (TPEv)**  $\pm 0.405$  m  
**Timestamp:** 2005-253.23:15:12.463 (09/10/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-253 / 976\_2314  
**Profile/Beam:** 296/109  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

Object in channel deeper than controlling depth.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-253/976_2314	296/109	0.00	000.0	Primary
h11512/tj_3102_klein5000_sss100/2005-252/3020	0001	4.57	200.2	Secondary
h11512/tj_3102_klein5000_sss100/2005-252/3019	0002	4.68	080.7	Secondary

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

54ft (11375\_1, 11374\_1, 11373\_1)

9fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

9fm 0ft (11366\_1)

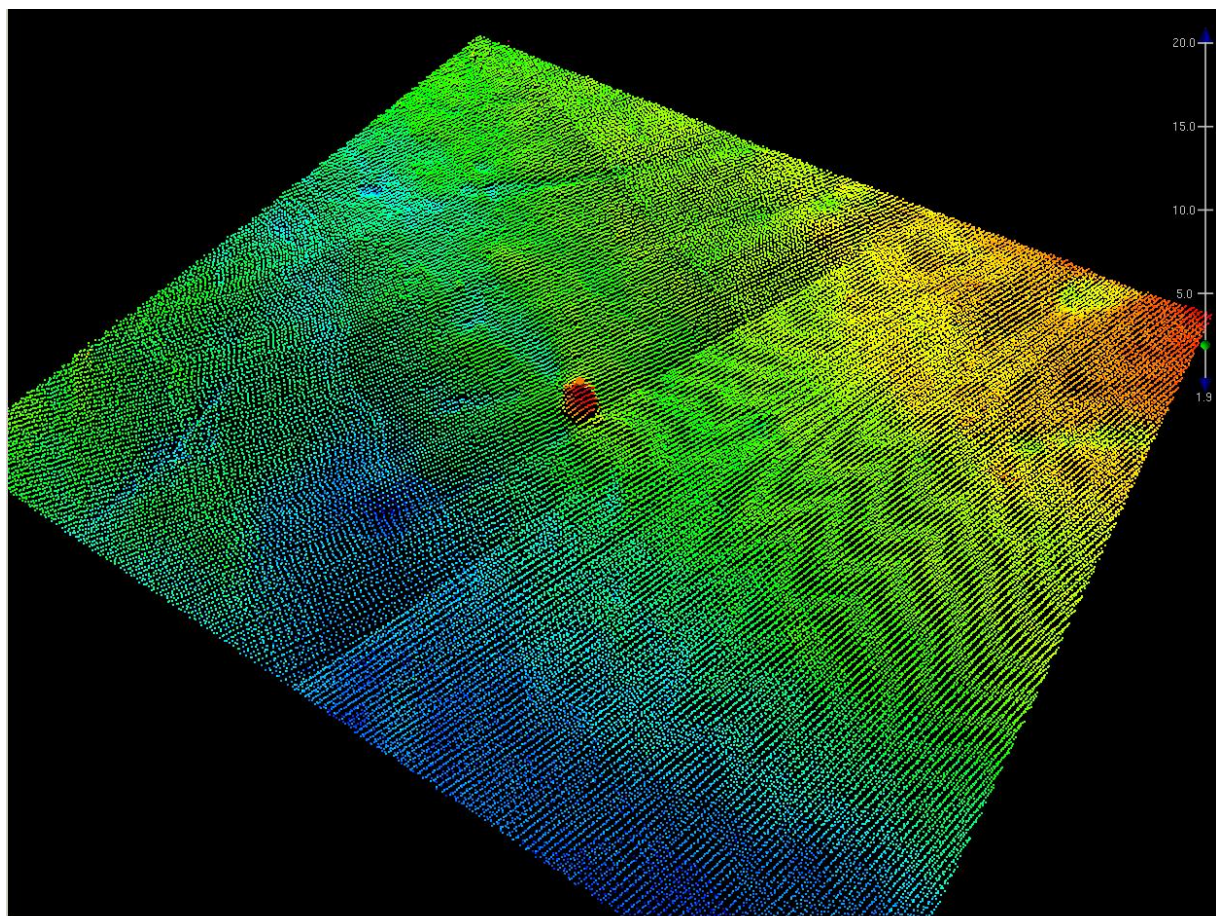
**S-57 Data**

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** VALSOU - 16.503 m  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Feature's least depth is greater than Horn Island Pass Channel tabulated limits. Do not recommend for charting. Recommend to defer final charting disposition to MCD, post NDB reference of source USACE channel and possible dredge surveys.

## Feature Images



*Figure 1.1.1*

[Image file h:/compilation/h11512\_j376-tj/ahb/pss/images/30190002\_m.tif does not exist.]

## 1.2) Encroaching 38-ft shoal

### Survey Summary

**Survey Position:** 30° 12' 51.4" N, 088° 30' 34.8" W  
**Least Depth:** 11.52 m (= 37.79 ft = 6.298 fm = 6 fm 1.79 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.980$  m ; **TVU (TPEv)**  $\pm 0.405$  m  
**Timestamp:** 2005-254.18:30:18.174 (09/11/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-254 / 902\_1829  
**Profile/Beam:** 378/144  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

Shoal encroaching on channel - shallower than controlling depth. Shoaling was reported to Nav Manager.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-254/902_1829	378/144	0.00	000.0	Primary
h11512/tj_3101_reson8125/2005-254/902_1829	369/191	7.22	146.4	Secondary (grouped)
h11512/tj_3101_reson8125/2005-254/902_1829	307/4	40.07	226.8	Secondary (grouped)
h11512/tj_3101_reson8125/2005-254/903_1833	338/180	47.76	254.1	Secondary (grouped)
h11512/tj_3101_reson8125/2005-254/903_1833	292/38	64.40	251.9	Secondary (grouped)
h11512/tj_3101_reson8125/2005-254/903_1833	289/43	64.54	251.1	Secondary (grouped)
h11512/tj_3101_reson8125/2005-254/903_1833	203/188	74.39	231.9	Secondary (grouped)
h11512/tj_3101_reson8125/2005-254/928_1819	1156/204	89.22	255.1	Secondary (grouped)
h11512/tj_3101_reson8125/2005-254/928_1819	1044/1	119.44	249.5	Secondary (grouped)

### Hydrographer Recommendations

Chart depth per digital data

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

38ft (11375\_1, 11374\_1, 11373\_1)

6 ¼fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

6fm 2ft (11366\_1)

## **S-57 Data**

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

## **Office Notes**

Concur. Chart a dangerous shoal of 38 ft. Defer final charting disposition to MCD Update Services Branch.  
Recommend reference source information from the US Army Corps of Engineers concerning dredging of the Horn Island Pass Channel.



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### 1.3) 39-ft Obstn

#### Survey Summary

**Survey Position:** 30° 13' 25.5" N, 088° 30' 16.3" W  
**Least Depth:** 11.99 m (= 39.34 ft = 6.556 fm = 6 fm 3.34 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.980$  m ; **TVU (TPEv)**  $\pm 0.406$  m  
**Timestamp:** 2005-253.22:07:04.342 (09/10/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-253 / 158\_2204  
**Profile/Beam:** 2202/223  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

Old Buoy Block on the edge of the channel - shallower than the controlling depth of lower Pascagoula Channel.  
This item was sent to the Nav Manager

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-253/158_2204	2202/223	0.00	000.0	Primary

#### Hydrographer Recommendations

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

39ft (11375\_1, 11374\_1, 11373\_1)

6 ½fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

6fm 3ft (11366\_1)

#### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 1:depth known  
 TECSOU - 3:found by multi-beam  
 VALSOU - 11.990 m  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Feature is located outside the eastern edge of the Horn Island Pass Channel, controlling depth 39.6ft. Chart 39-ft Obstn at the surveyed location.

Defer final charting disposition to MCD based upon source information from USCG with regard to salvage of derelict buoy blocks.

## Feature Images

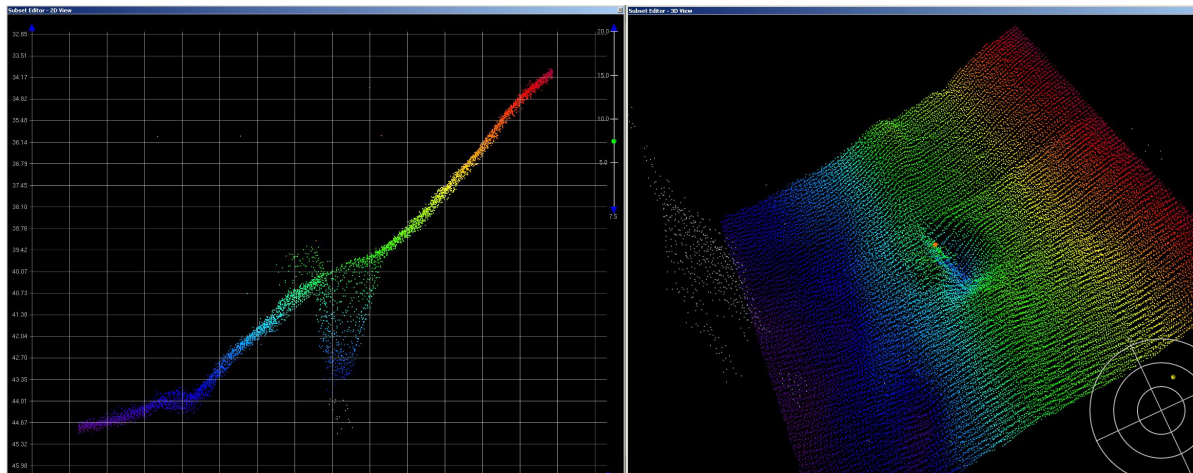


Figure 1.3.1

## 1.4) Encroaching 18-ft Shoal

### Survey Summary

**Survey Position:** 30° 12' 41.2" N, 088° 30' 37.1" W  
**Least Depth:** 5.45 m (= 17.87 ft = 2.978 fm = 2 fm 5.87 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 1.350$  m ; TVU (TPEv)  $\pm 0.220$  m  
**Timestamp:** 2005-253.20:47:08.102 (09/10/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-253 / 1033  
**Profile/Beam:** 1841/183  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

Creeping shoal - shallower than controlling depth of channel. USACE dredge operations begun DN 259. This item was sent to the Nav Manager

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-253/1033	1841/183	0.00	000.0	Primary
h11512/tj_3101_reson8125/2005-254/903_1833	1258/223	35.40	129.7	Secondary (grouped)

### Hydrographer Recommendations

Chart depth per digital data

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

18ft (11375\_1, 11374\_1, 11373\_1)

3fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

1fm 0ft (11366\_1)

### S-57 Data

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

## Office Notes

Concur. Chart a dangerous shoal of 18 ft. Defer final charting disposition to MCD Update Services Branch; reference source information submitted by the US Army Corps of Engineers concerning dredging of the Horn Island Pass Channel.

## 1.5) 40-ft Obstn

### Survey Summary

**Survey Position:** 30° 11' 38.9" N, 088° 31' 34.6" W  
**Least Depth:** 12.12 m (= 39.78 ft = 6.629 fm = 6 fm 3.78 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.980$  m ; **TVU (TPEv)**  $\pm 0.405$  m  
**Timestamp:** 2005-254.20:19:33.643 (09/11/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-254 / 913\_2015  
**Profile/Beam:** 3067/162  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

Square object - possibly and old buoy block - just outside the channel. The object is shallower than tabulated depth of outside quarter of channel. This item was reported to Nav Manager.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-254/913_2015	3067/162	0.00	000.0	Primary
h11512/tj_3102_klein5000_sss100/2005-252/2042	0006	1.10	111.7	Secondary

### Hydrographer Recommendations

The hydrographer recommends the object be charted as an Obstn, depth per digital data

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

40ft (11375\_1, 11374\_1, 11373\_1)

6 ½fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

6fm 4ft (11366\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 STATUS - 1:permanent  
 TECSOU - 3:found by multi-beam  
 VALSOU - 12.124 m

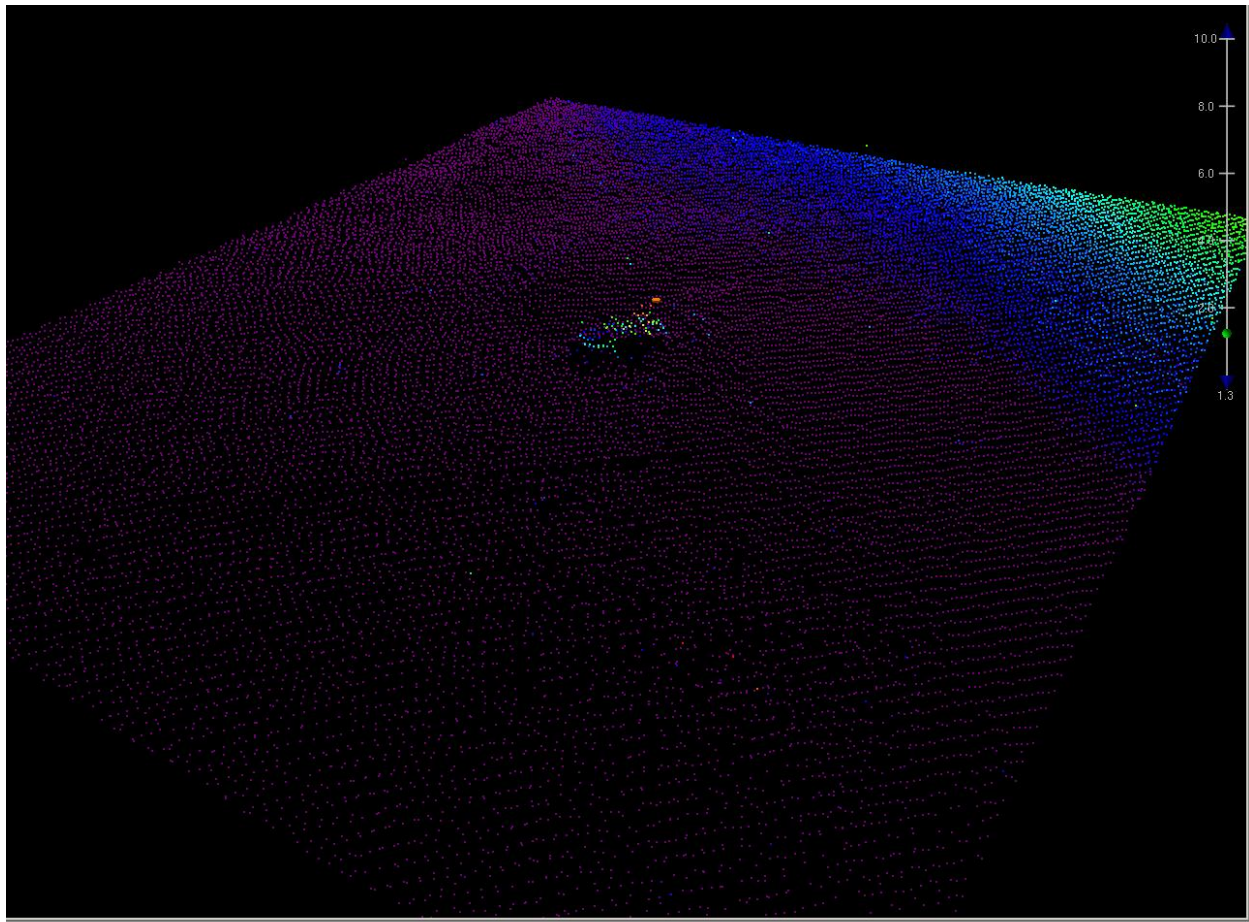
VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

### **Office Notes**

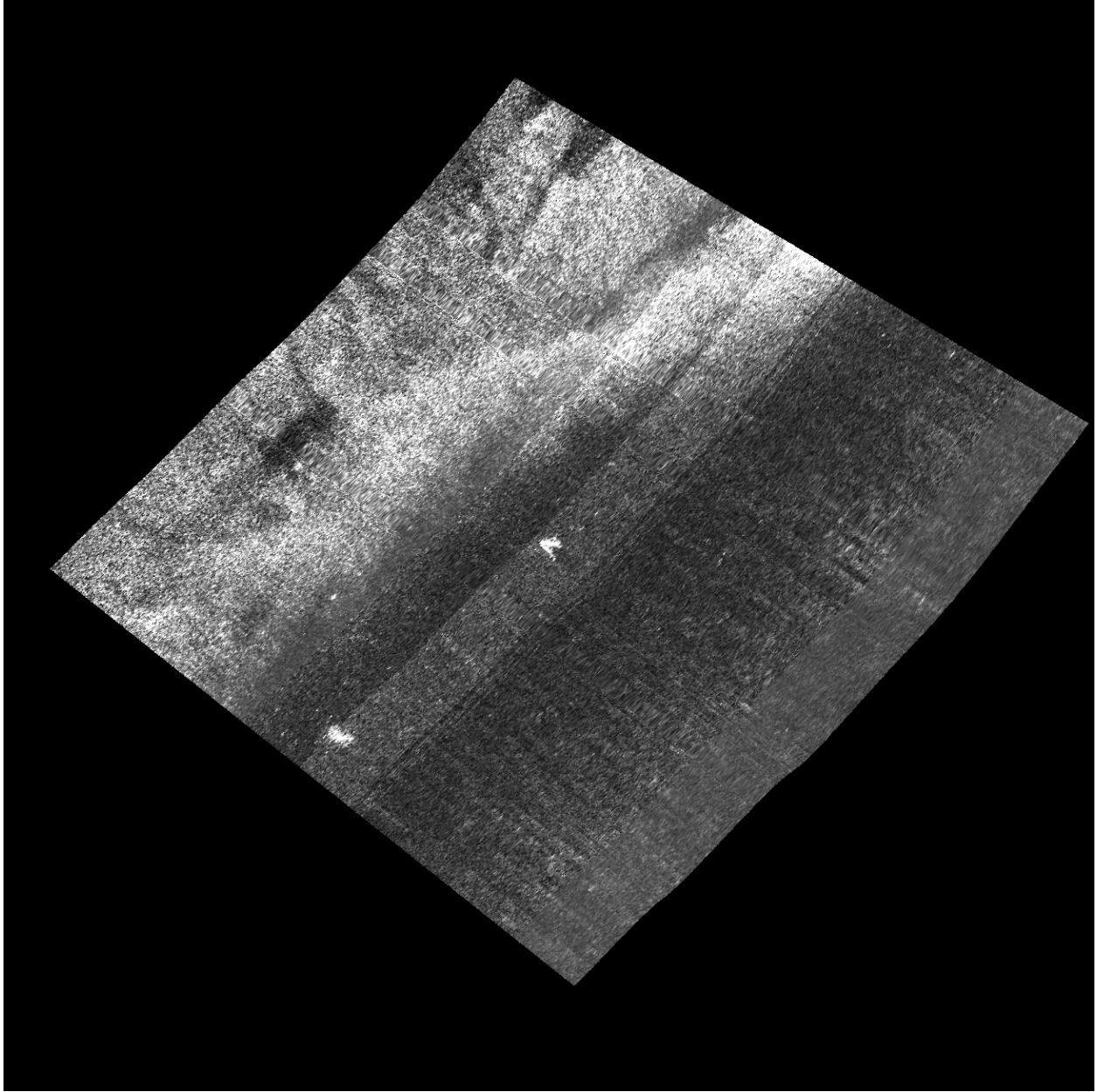
Concur. Chart a dangerous 40-ft Obstruction at the surveyed location. Bearing in mind the feature is located on the channel edge, defer the final charting disposition to MCD.

## Feature Images



*Figure 1.5.1*





*Figure 1.5.2*

## 1.6) 42-ft Obstn (associated with AWOIS #7945)

### Survey Summary

**Survey Position:** 30° 11' 46.3" N, 088° 31' 26.6" W  
**Least Depth:** 12.97 m (= 42.54 ft = 7.090 fm = 7 fm 0.54 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 0.981$  m ; TVU (TPEv)  $\pm 0.407$  m  
**Timestamp:** 2005-254.20:20:52.912 (09/11/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-254 / 913\_2015  
**Profile/Beam:** 4007/228  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

Object on the edge of the channel (possibly an old buoy chain or net) deeper than controlling depth

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-254/913_2015	4007/228	0.00	000.0	Primary
h11512/tj_3102_klein5000_sss100/2005-252/2042	0007	43.60	108.7	Secondary (grouped)

### Hydrographer Recommendations

The hydrographer recommends the object not be charted as OBSTN

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

42ft (11375\_1, 11374\_1, 11373\_1)

7fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

7fm 0ft (11366\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** VALSOU - 12.967 m  
 WATLEV - 3:always under water/submerged

## Office Notes

Do not concur. This feature is associated with AWOIS #7945. Feature is located approximately 102m from AWOIS target. Recommend to defer final charting disposition to MCD, post NDB reference of source USACE channel and possible dredge surveys. Feature remains within the AHB H11512 H-Cell.

## Feature Images

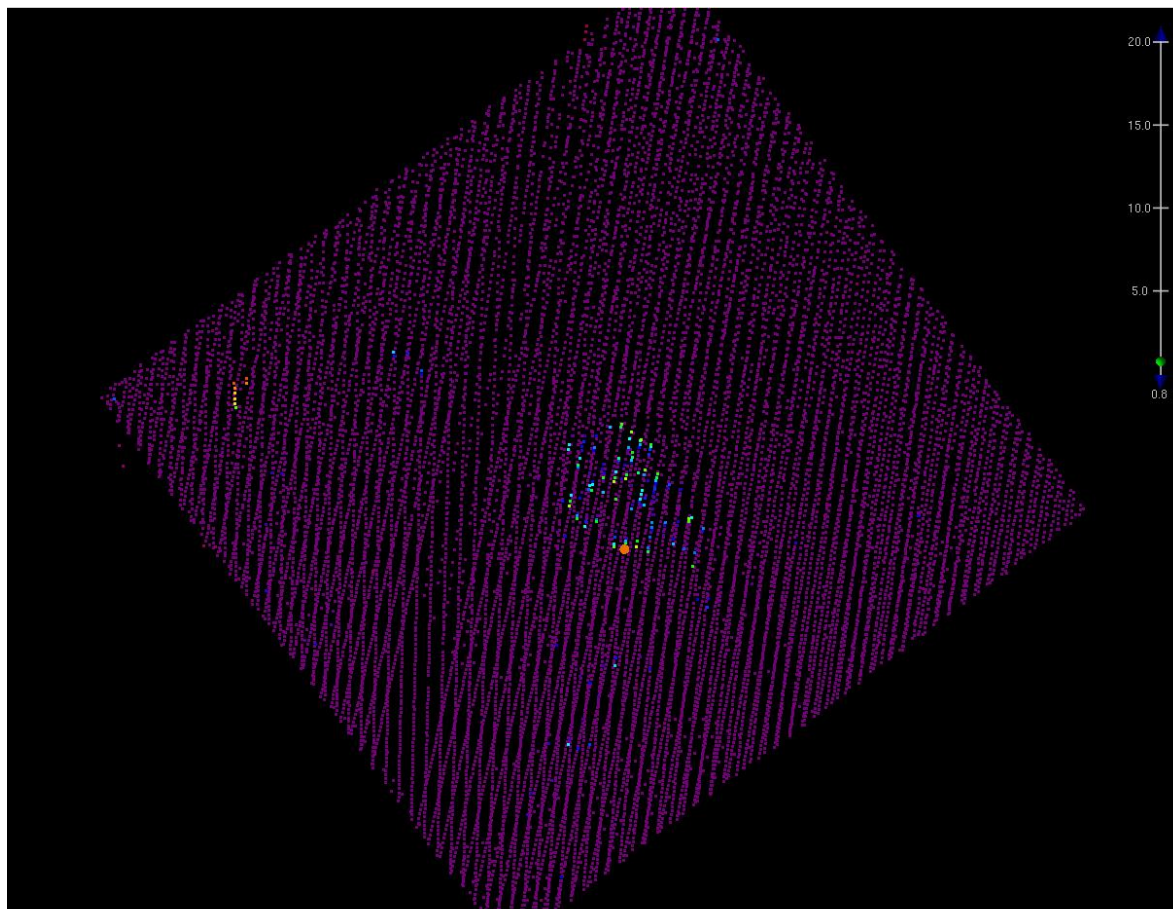
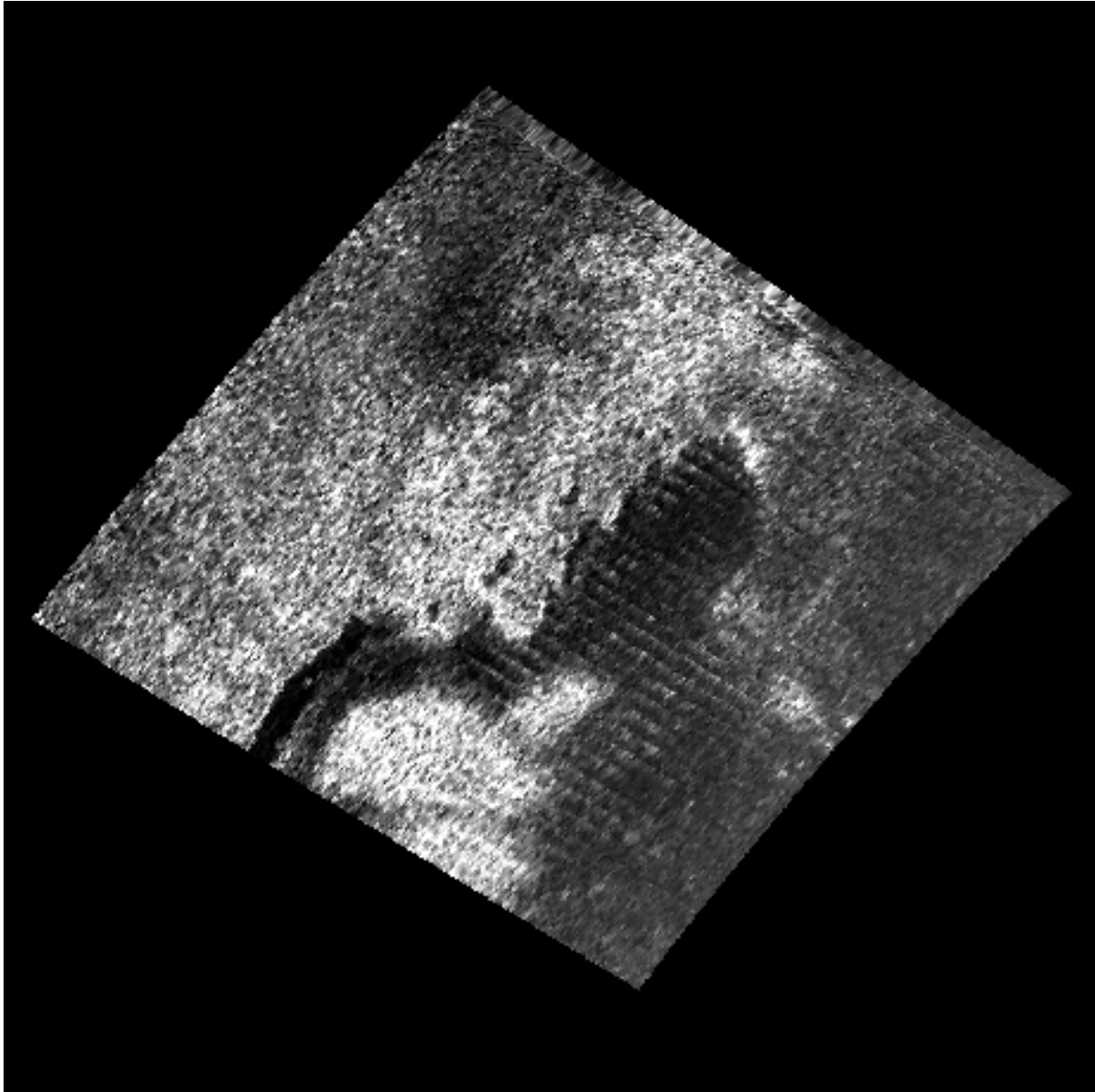


Figure 1.6.1



*Figure 1.6.2*

## 1.7) 31 Obstn

### Survey Summary

**Survey Position:** 30° 12' 12.2" N, 088° 30' 50.0" W  
**Least Depth:** 9.44 m (= 30.96 ft = 5.160 fm = 5 fm 0.96 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 0.980$  m ; TVU (TPEv)  $\pm 0.406$  m  
**Timestamp:** 2005-261.13:05:46.664 (09/18/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-261 / 006\_1259  
**Profile/Beam:** 6070/10  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

Old buoy block noted in both SSS and MBES data

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-261/006_1259	6070/10	0.00	000.0	Primary
h11512/tj_3102_klein5000_sss100/2005-253/3009	0003	2.32	194.2	Secondary
h11512/tj_3102_klein5000_sss100/2005-253/3010	0002	6.85	234.7	Secondary

### Hydrographer Recommendations

The hydrographer recommends the object be charted as an obstn, depth per digital data.

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

31ft (11375\_1, 11374\_1, 11373\_1)

5fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

5fm 1ft (11366\_1)

### S-57 Data

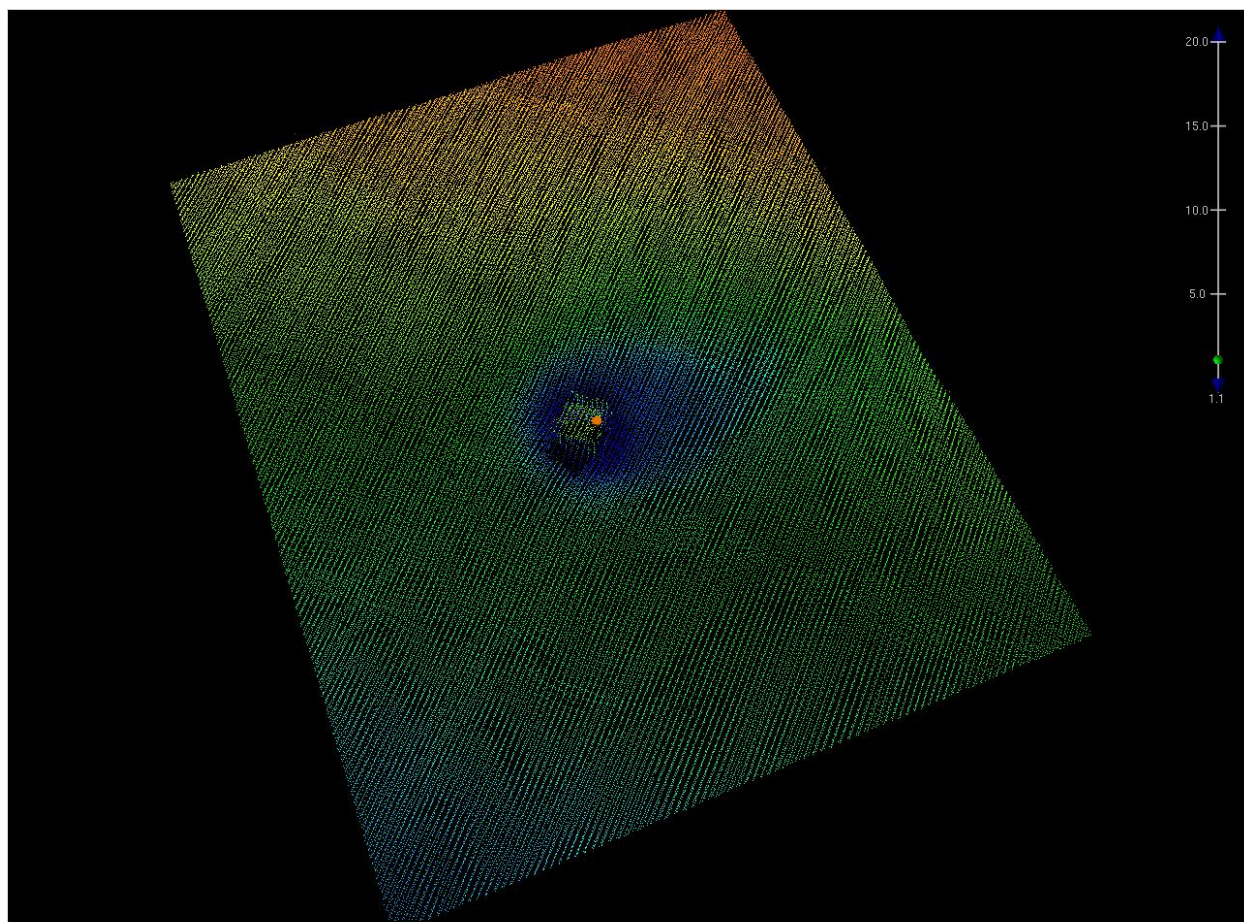
**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 1:depth known  
 TECSOU - 2:found by side scan sonar  
 VALSOU - 9.437 m  
 VERDAT - 10:Approximate lowest astronomical tide

WATLEV - 3:always under water/submerged

## **Office Notes**

Concur. Chart 31-ft (9.437m) Obstn.

## Feature Images



*Figure 1.7.1*

[Image file h:/compilation/h11512\_j376-tj/ahb/pss/images/30090003\_m.tif does not exist.]



## 1.8) 23-ft Obstn

### Survey Summary

**Survey Position:** 30° 12' 06.3" N, 088° 30' 51.2" W  
**Least Depth:** 7.04 m (= 23.11 ft = 3.851 fm = 3 fm 5.11 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 0.980$  m ; TVU (TPEv)  $\pm 0.406$  m  
**Timestamp:** 2005-261.14:25:52.806 (09/18/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-261 / 015\_1424  
**Profile/Beam:** 2871/240  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

Object (possibly old buoy block) - noted in both SSS and MBES data

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-261/015_1424	2871/240	0.00	000.0	Primary
h11512/tj_3102_klein5000_sss100/2005-253/3010	0001	3.72	200.2	Secondary

### Hydrographer Recommendations

The hydrographer recommends the object be charted as an obstn, depth per digital data

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

23ft (11375\_1, 11374\_1, 11373\_1)

3  $\frac{3}{4}$ fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

3fm 5ft (11366\_1)

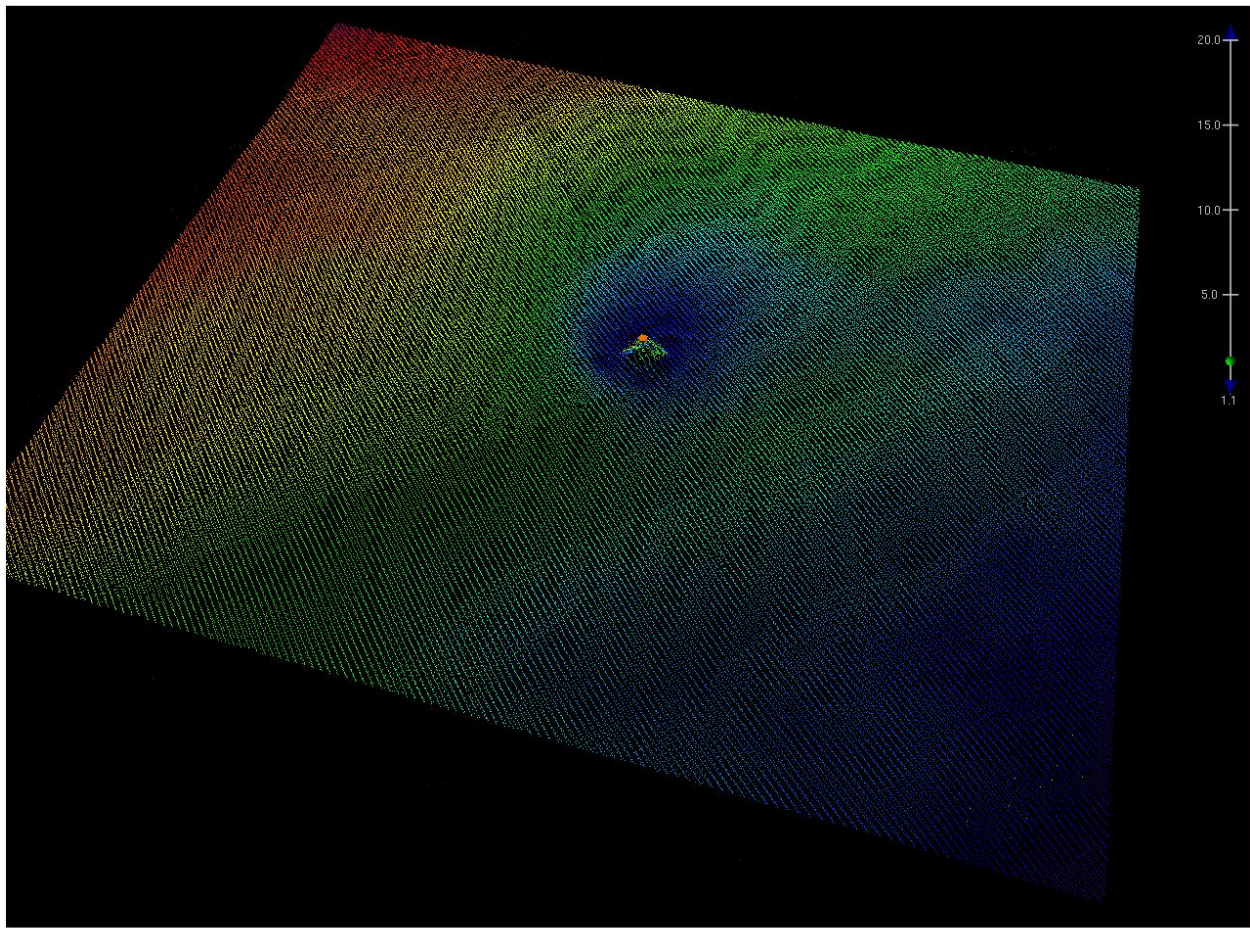
### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 1:depth known  
 TECSOU - 2:found by side scan sonar  
 VALSOU - 7.043 m  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur. Chart 23-ft (7.043m) Obstn.

## Feature Images



*Figure 1.8.1*

[Image file h:/compilation/h11512\_j376-tj/ahb/pss/images/30100001\_m.tif does not exist.]

## 1.9) 24-ft Wreck

### Survey Summary

**Survey Position:** 30° 12' 18.5" N, 088° 30' 58.9" W  
**Least Depth:** 7.31 m (= 23.99 ft = 3.999 fm = 3 fm 5.99 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.981$  m ; **TVU (TPEv)**  $\pm 0.408$  m  
**Timestamp:** 2005-260.20:20:58.795 (09/17/2005)  
**Survey Line:** h11512 / tj\_3102\_reson8101 / 2005-260 / 435\_2019  
**Profile/Beam:** 748/3  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

Object appears to be a wreck.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11512/tj_3102_reson8101/2005-260/435_2019	748/3	0.00	000.0	Primary
h11512/tj_3101_reson8125/2005-254/938_1921	367/137	2.03	062.5	Secondary
h11512/tj_3101_reson8125/2005-254/938_1921	367/136	2.06	064.1	Secondary
h11512/tj_3101_reson8125/2005-254/938_1921	368/200	4.27	327.0	Secondary
h11512/tj_3102_reson8101/2005-260/437_2027	594/21	4.50	305.3	Secondary
h11512/tj_3102_reson8101/2005-260/437_2027	595/21	4.56	311.6	Secondary
h11512/tj_3102_reson8101/2005-260/439_2035	540/85	5.69	307.6	Secondary
h11512/tj_3102_klein5000_sss100/2005-252/3007	0002	9.47	223.8	Secondary

### Hydrographer Recommendations

The hydrographer recommends the object be charted as submerged wreck - depth per digital data.

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

24ft (11375\_1, 11374\_1, 11373\_1)

4fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

2fm 0ft (11366\_1)

## **S-57 Data**

**Geo object 1:** Sounding (SOUNDG)  
**Geo object 2:** Wreck (WRECKS)  
**Attributes:** CATWRK - 3:distributed remains of wreck  
CONVIS - 2:not visual conspicuous  
STATUS - 1:permanent  
TECSOU - 2:found by side scan sonar  
VALSOU - 7.313 m  
VERDAT - 12:Mean lower low water  
WATLEV - 3:always under water/submerged

## **Office Notes**

Concur. Chart a dangerous 24-ft Wreck.

## Feature Images

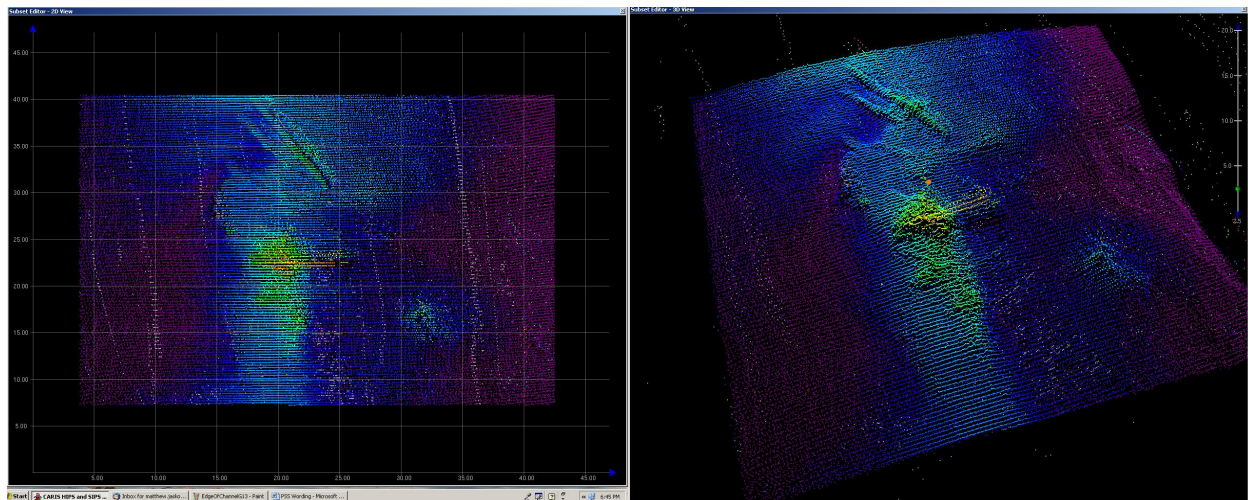
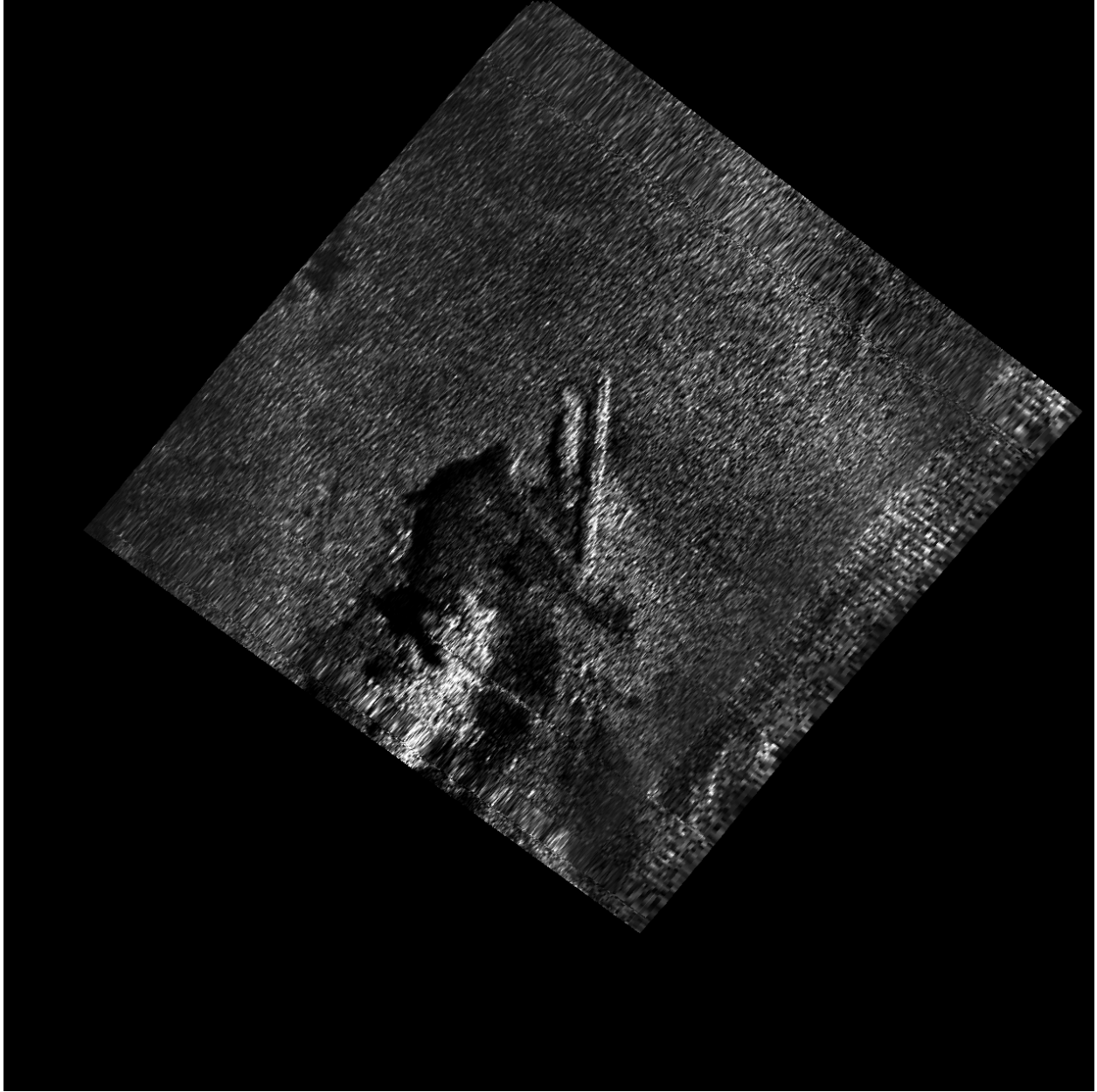


Figure 1.9.1



*Figure 1.9.2*



## 1.10) 27-ft Obstn

### Survey Summary

**Survey Position:** 30° 11' 54.8" N, 088° 31' 41.1" W  
**Least Depth:** 7.28 m (= 23.90 ft = 3.983 fm = 3 fm 5.90 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.981$  m ; **TVU (TPEv)**  $\pm 0.409$  m  
**Timestamp:** 2005-262.21:29:09.647 (09/19/2005)  
**Survey Line:** h11512 / tj\_3102\_reson8101 / 2005-262 / 644\_2128  
**Profile/Beam:** 287/101  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

Object 14.5m long by 3.5m wide - resembles the hull of a partially burried capsized boat, or sand wave.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11512/tj_3102_reson8101/2005-262/644_2128	287/101	0.00	000.0	Primary

### Hydrographer Recommendations

The hydrographer recommends the object be charted as an obstn, depth per digital data

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

24ft (11375\_1, 11374\_1, 11373\_1)

4fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

2fm 0ft (11366\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** OBJNAM - 37-ft Obstn  
 QUASOU - 6:least depth known  
 SORDAT - 20050920  
 SORIND - US,US,Nsurf,H11512  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 7.284 m



WATLEV - 3:always under water/submerged

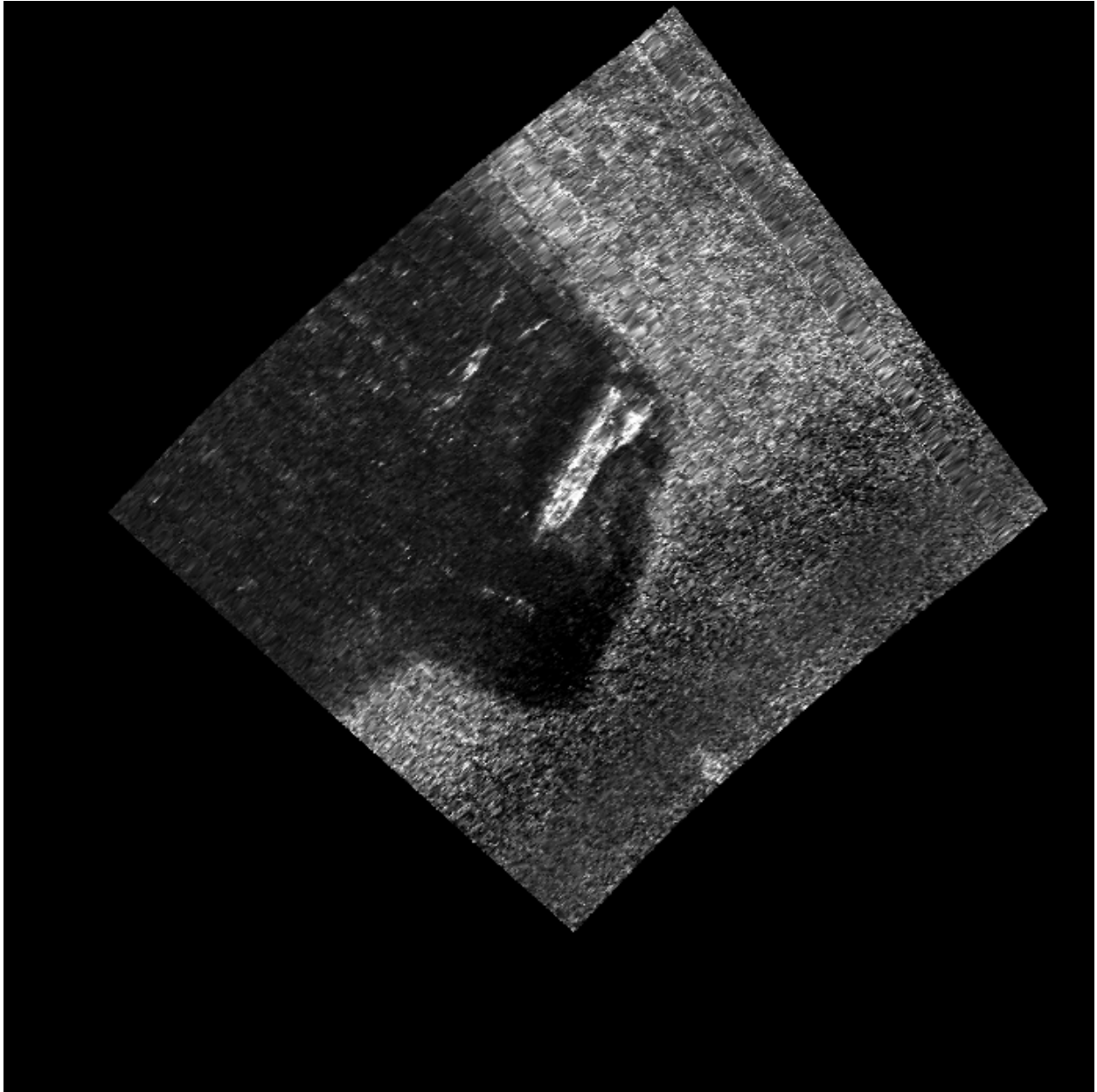
**Geo object 2:** Sounding (SOUNDG)

### Office Notes

Concur with clarification. Selected ping and beam is located in the outer ranges of the MB swath and was found as rejected data. MB data over the feature indicates a depth of depth of 8.254m (27.080-ft)located in Latitude 30°11'55.161"N, Longitude 088°31'40.566"W.

Chart a dangerous 27-ft Obsn w/danger curve located in Latitude 30°11'55.161"N, Longitude 088°31'40.566"W.

## Feature Images



*Figure 1.10.1*

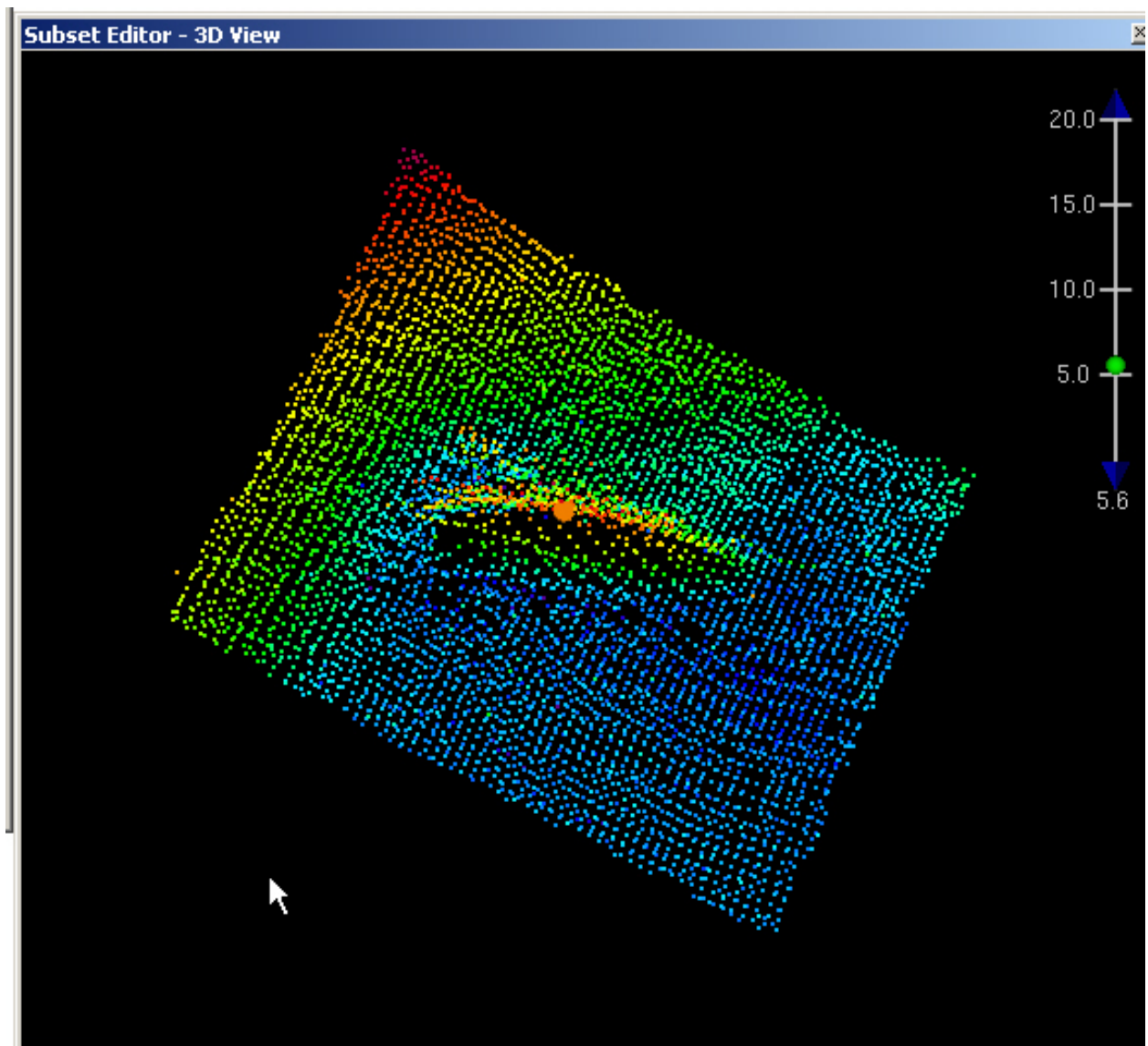
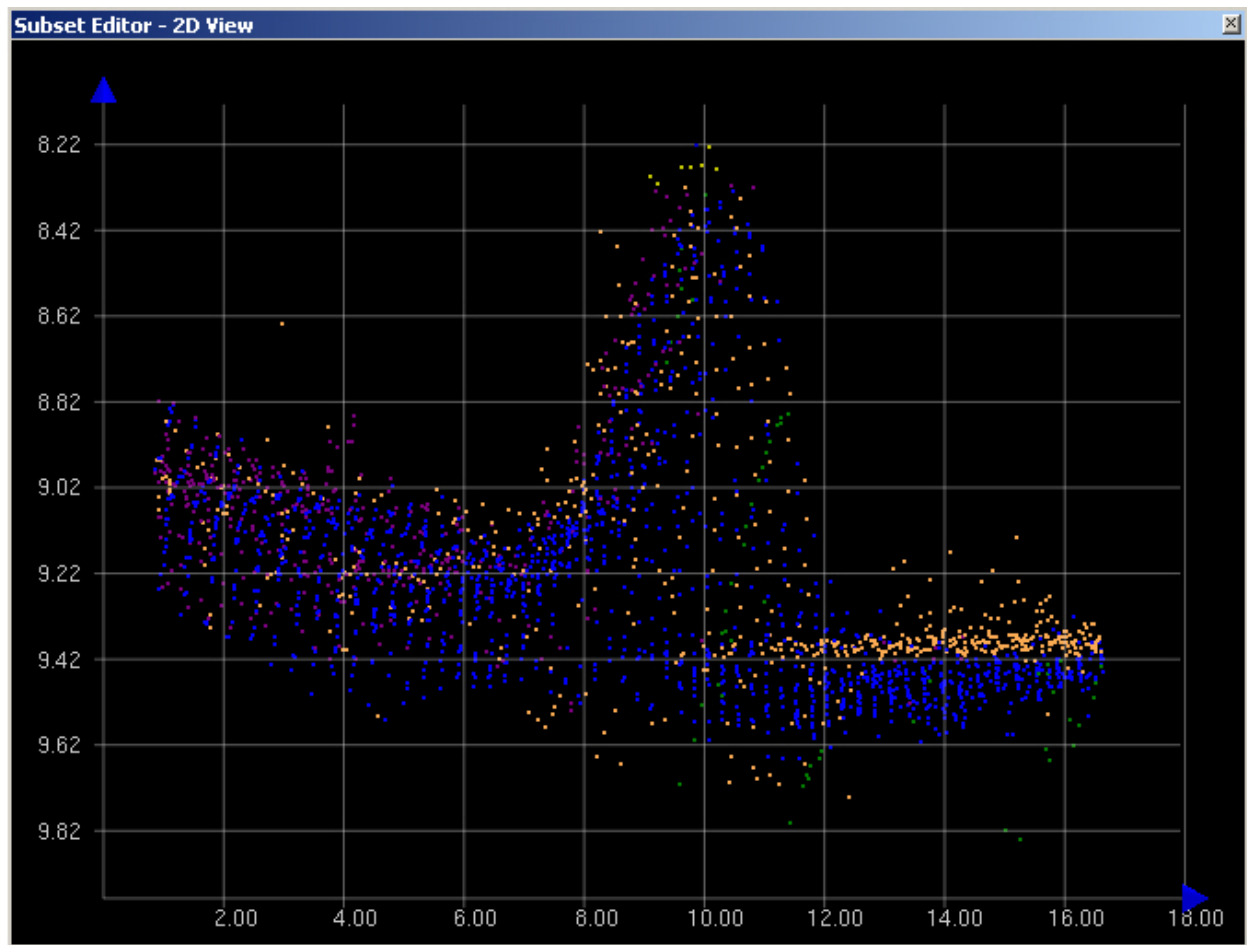


Figure 1.10.2

*Figure 1.10.3*

## 1.11) 18-ft Obstn

### Survey Summary

**Survey Position:** 30° 13' 29.4" N, 088° 30' 09.1" W  
**Least Depth:** 5.68 m (= 18.65 ft = 3.108 fm = 3 fm 0.65 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.980$  m ; **TVU (TPEv)**  $\pm 0.405$  m  
**Timestamp:** 2005-254.12:53:22.136 (09/11/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-254 / 169\_1252  
**Profile/Beam:** 1144/139  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

Object (possibly old buoy block) partially covered.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-254/169_1252	1144/139	0.00	000.0	Primary
h11512/tj_3102_klein5000_sss100/2005-253/3039	0003	1.14	279.4	Secondary

### Hydrographer Recommendations

Object less than 1m off bottom - recommend not charted as an Obstn.

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

18ft (11375\_1, 11374\_1, 11373\_1)

3fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

3fm 0ft (11366\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 1:depth known  
 TECSOU - 3:found by multi-beam  
 VALSOU - 5.683 m  
 WATLEV - 3:always under water/submerged

## Office Notes

Do Not Concur. Chart 18-ft (5.683m) Obstn at the surveyed location.

## Feature Images

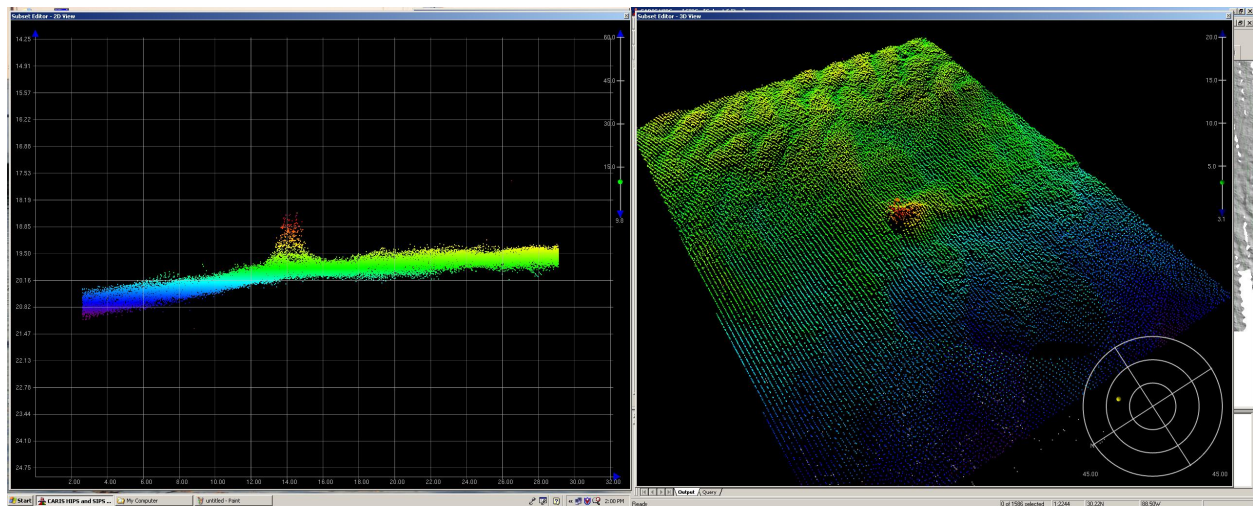


Figure 1.11.1

**1.12) 18-ft Obstrn****Survey Summary**

**Survey Position:** 30° 13' 33.8" N, 088° 30' 09.6" W  
**Least Depth:** 5.48 m (= 17.99 ft = 2.998 fm = 2 fm 5.99 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.980$  m ; **TVU (TPEv)**  $\pm 0.405$  m  
**Timestamp:** 2005-254.12:53:54.656 (09/11/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-254 / 169\_1252  
**Profile/Beam:** 1871/227  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

Square object partially buried.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-254/169_1252	1871/227	0.00	000.0	Primary
h11512/tj_3102_klein5000_sss100/2005-253/3039	0002	0.75	270.6	Secondary

**Hydrographer Recommendations**

Object less than 1m off bottom - recommend not charted as an Obstrn

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

18ft (11375\_1, 11374\_1, 11373\_1)

3fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

1fm 0ft (11366\_1)

**S-57 Data**

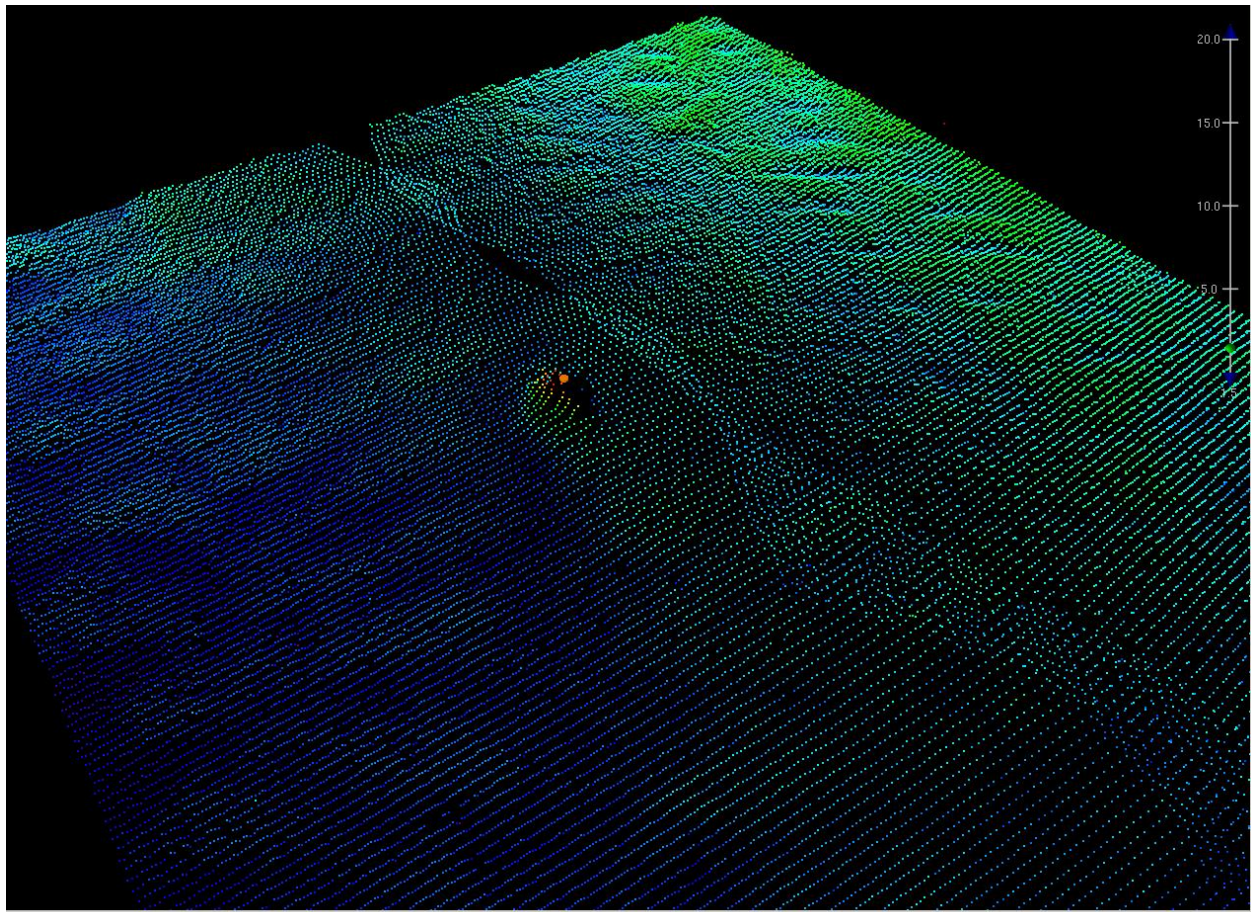
**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** TECSOU - 3:found by multi-beam  
 VALSOU - 5.482 m  
 WATLEV - 3:always under water/submerged



## Office Notes

Concur with clarification. Chart 18-ft (5.482m) Obstn at the surveyed location.

## Feature Images



*Figure 1.12.1*

### 1.13) Awois12613 28ft Obstn

#### Primary Feature for AWOIS Item #12613

**Search Position:** 30° 11' 23.5" N, 088° 32' 45.1" W  
**Historical Depth:** 9.14 m  
**Search Radius:** 400  
**Search Technique:** MB,S2,SD,DI,VS  
**Technique Notes:** [None]

#### History Notes:

L-1136/62--LETTER IS OF A LNM DATED 17 OCTOBER 1962 FROM THE 8TH CGD. "A MUD LUMP WITH A LEAST DEPTH OF 30FT OVER IT WAS REPORTED APPROXIMATELY 1665 YARDS 272° FROM HORN ISLAND PASS LIGHTED BELL BUOY 1 (LL6422)."

#### Survey Summary

**Survey Position:** 30° 11' 24.9" N, 088° 32' 39.2" W  
**Least Depth:** 8.70 m (= 28.54 ft = 4.757 fm = 4 fm 4.54 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 0.982$  m ; TVU (TPEv)  $\pm 0.411$  m  
**Timestamp:** 2005-262.13:01:39.507 (09/19/2005)  
**Survey Line:** h11512 / tj\_3102\_reson8101 / 2005-262 / 043\_1259  
**Profile/Beam:** 1085/101  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

No item matching that of AWOIS item 12613 (a "mud lump") was seen in the SSS trace or the MBES data. However, an object appx 8m long was noted in both the SSS trace and MBES data. The object was within AWOIS 12613 search radius.

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11512/tj_3102_reson8101/2005-262/043_1259	1085/101	0.00	000.0	Primary
h11512/tj_3102_klein5000_sss100/2005-254/2055	0001	1.34	022.0	Secondary (grouped)
j376-AWOIS	AWOIS # 12613	165.34	074.9	Secondary

## Hydrographer Recommendations

The hydrographer recommends that AWOIS 12613 be removed from the database, and an Obstrn be added to the Chart - position and depth per digital data.

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

28ft (11375\_1, 11374\_1, 11373\_1)

4 ¾fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

4fm 4ft (11366\_1)

## S-57 Data

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

**Attributes:** QUASOU - 1:depth known

STATUS - 1:permanent

TECSOU - 3:found by multi-beam

VALSOU - 8.700 m

VERDAT - 12:Mean lower low water

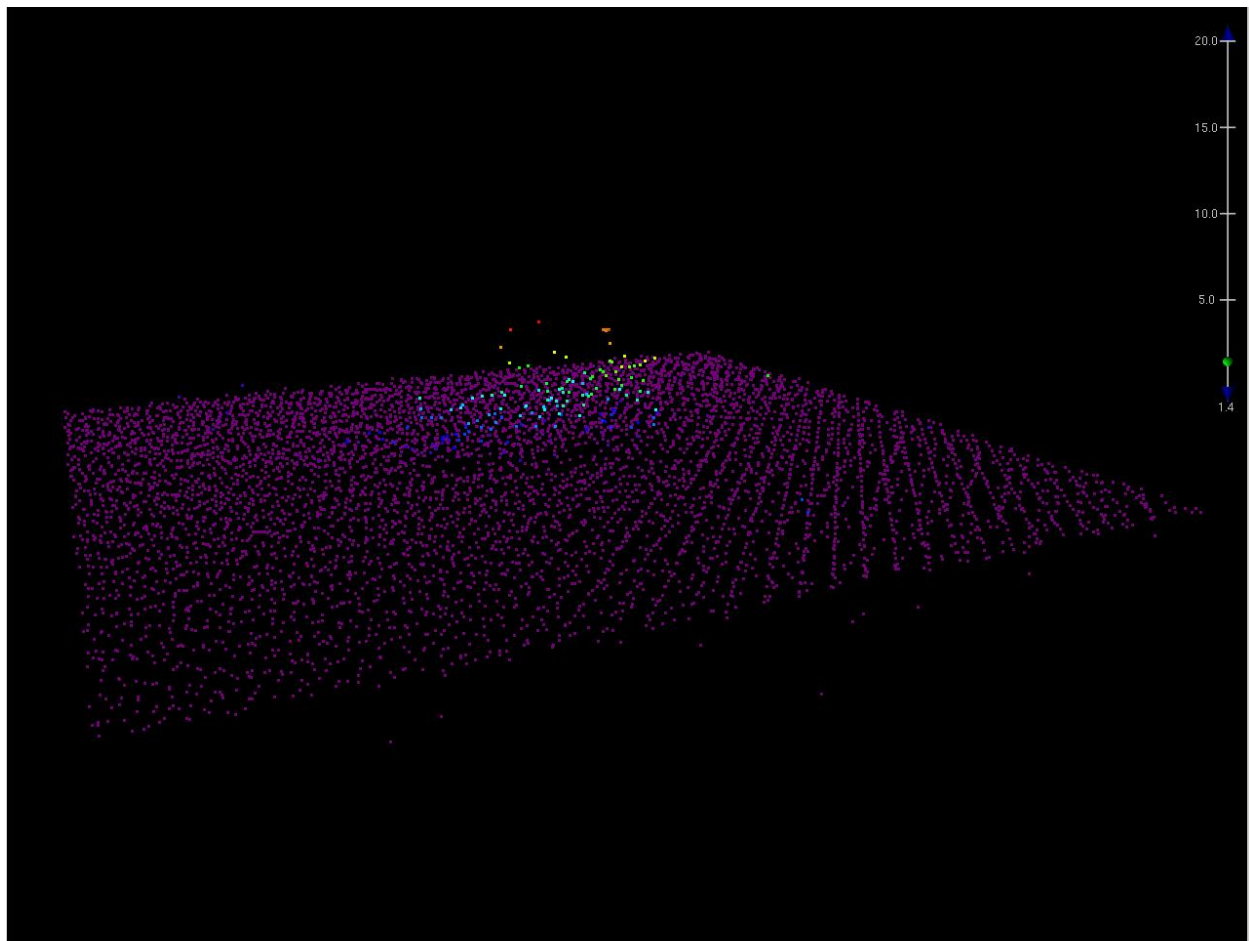
WATLEV - 3:always under water/submerged

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

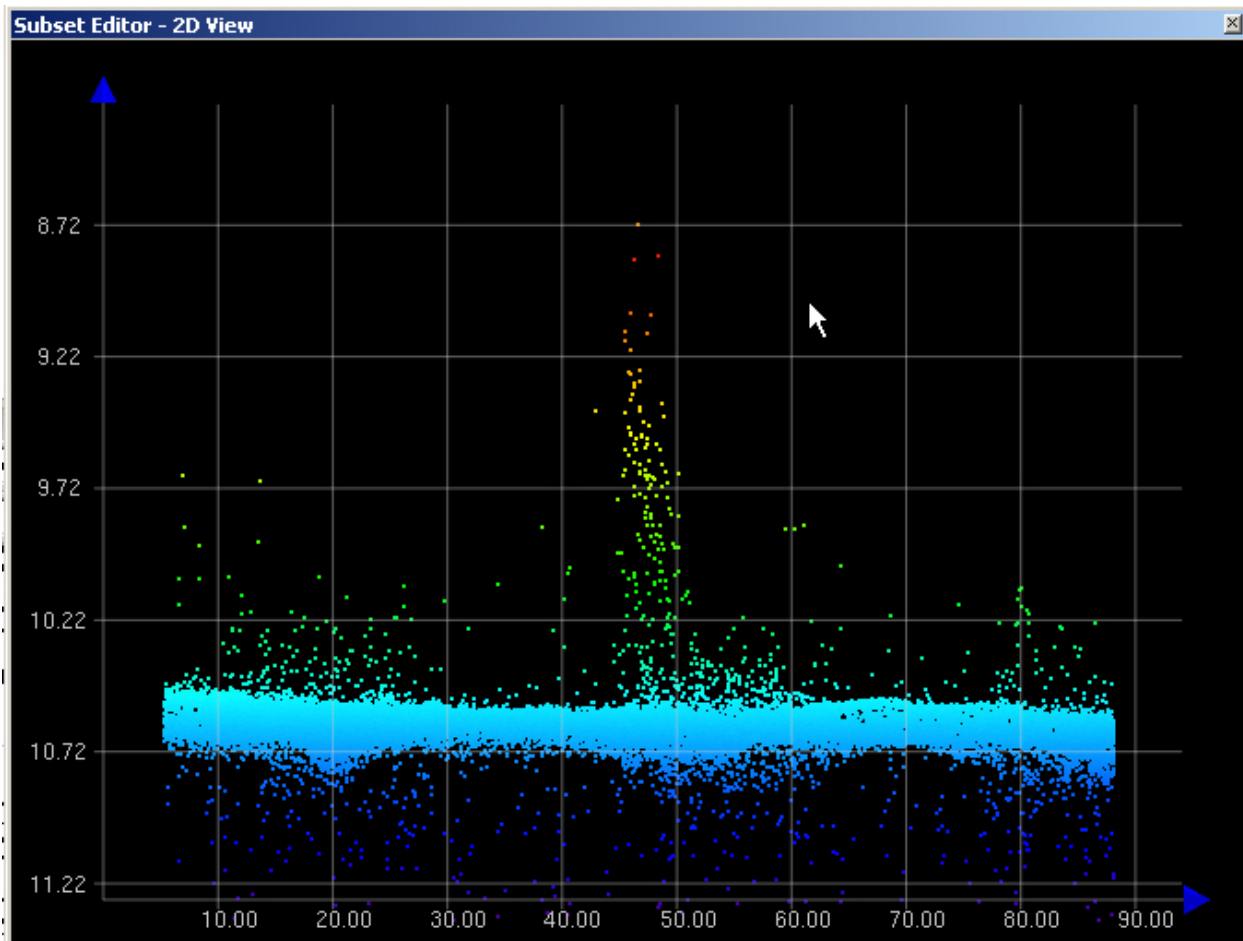
## Office Notes

Concur with clarification. Do not remove the AWOIS item #12613 from the database, rather update the AWOIS item with findings from H11512. The common area of the charted 30-ft shoal contains numerous 34-ft soundings from H11512. Recommend to delete 30 ft. shoal Rep (1962) from the chart. Recommend to append chart with a 28-ft (28.54-ft(8.700m)) Obstrn at the surveyed location in Latitude 30°11'24.922"N, 088°32'39.169"W. Reference Appendix 2, Item 1.13.

## Feature Images



*Figure 1.13.1*

*Figure 1.13.2*

**1.14) 46-ft Obstn****Survey Summary**

**Survey Position:** 30° 12' 27.968" N, 088° 30' 45.217" W  
**Least Depth:** 13.859 m (= 45.47 ft = 7.58 fm = 7 fm 3.48 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.981$  m ; **TVU (TPEv)**  $\pm 0.407$  m  
**Timestamp:** 2005-253.20:55:14.678 (09/10/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-253 / 978\_2050  
**Profile/Beam:** 3225/232  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

A pair of objects, both deeper than the controlling depth of the channel - USACE dredge ops begun in area on DN 259

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-253/978_2050	3225/232	0.00	000.0	Primary
h11512/tj_3101_reson8125/2005-254/907_1843	917/44	8.50	060.9	Secondary

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

45ft (11375\_1, 11374\_1, 11373\_1)

7 ½fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

7fm 3ft (11366\_1)

**S-57 Data**

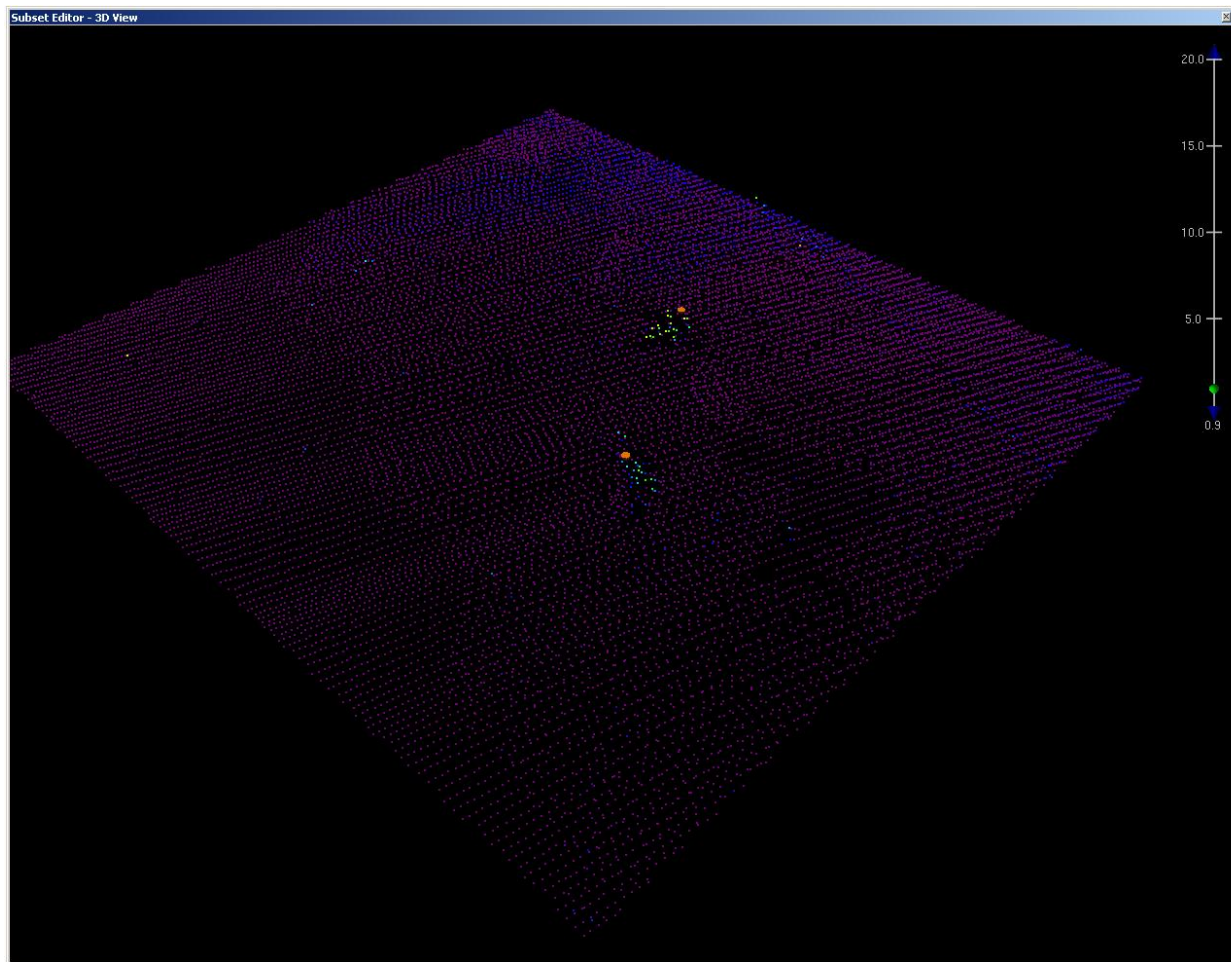
**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** VALSOU - 13.859 m  
WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Recommend to defer final charting disposition to MCD, post NDB reference of source USACE channel and possible dredge surveys. Feature (45-ft Obstn) remains within the AHB H11512 H-Cell.



## Feature Images



*Figure 1.14.1*

## 1.15) 31ft Obstn

### Survey Summary

**Survey Position:** 30° 11' 36.7" N, 088° 31' 56.9" W  
**Least Depth:** 9.45 m (= 30.99 ft = 5.165 fm = 5 fm 0.99 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.980$  m ; **TVU (TPEv)**  $\pm 0.405$  m  
**Timestamp:** 2005-259.18:25:57.800 (09/16/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-259 / 241\_1820  
**Profile/Beam:** 4324/144  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

Obstn - Noted in SSS and MBES data

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-259/241_1820	4324/144	0.00	000.0	Primary
h11512/tj_3102_klein5000_sss100/2005-254/2043	0001	1.85	295.7	Secondary

### Hydrographer Recommendations

The hydrographer recommends the object be charted as an obstn, depth per digital data

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

31ft (11375\_1, 11374\_1, 11373\_1)

5fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

5fm 1ft (11366\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** OBJNAM - 31-ft OBSTRN  
 QUASOU - 6:least depth known  
 SORDAT - 20050920  
 SORIND - US,US,Nsurf,H11512  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam

VALSOU - 9.446 m

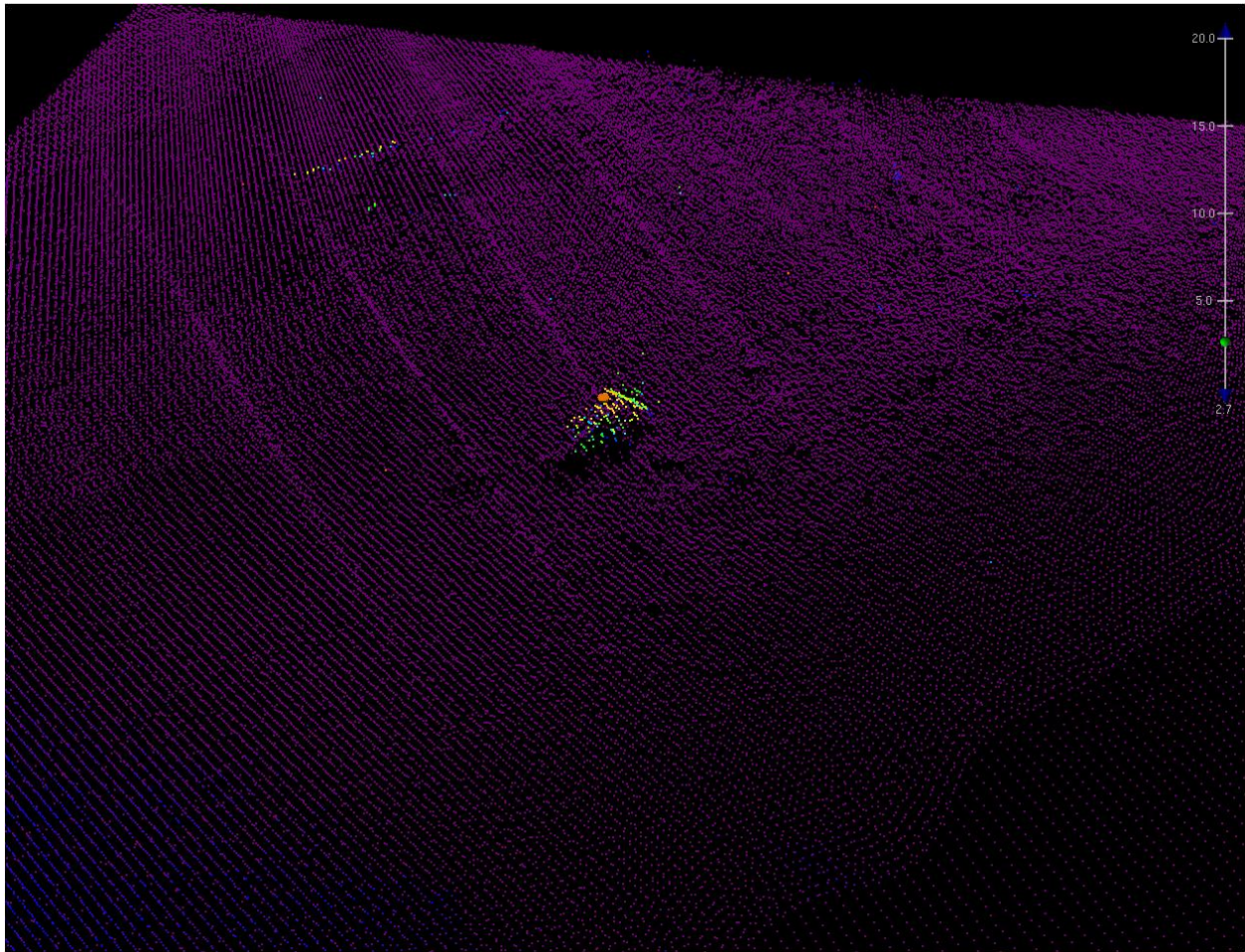
VERDAT - 16:Mean high water

WATLEV - 3:always under water/submerged

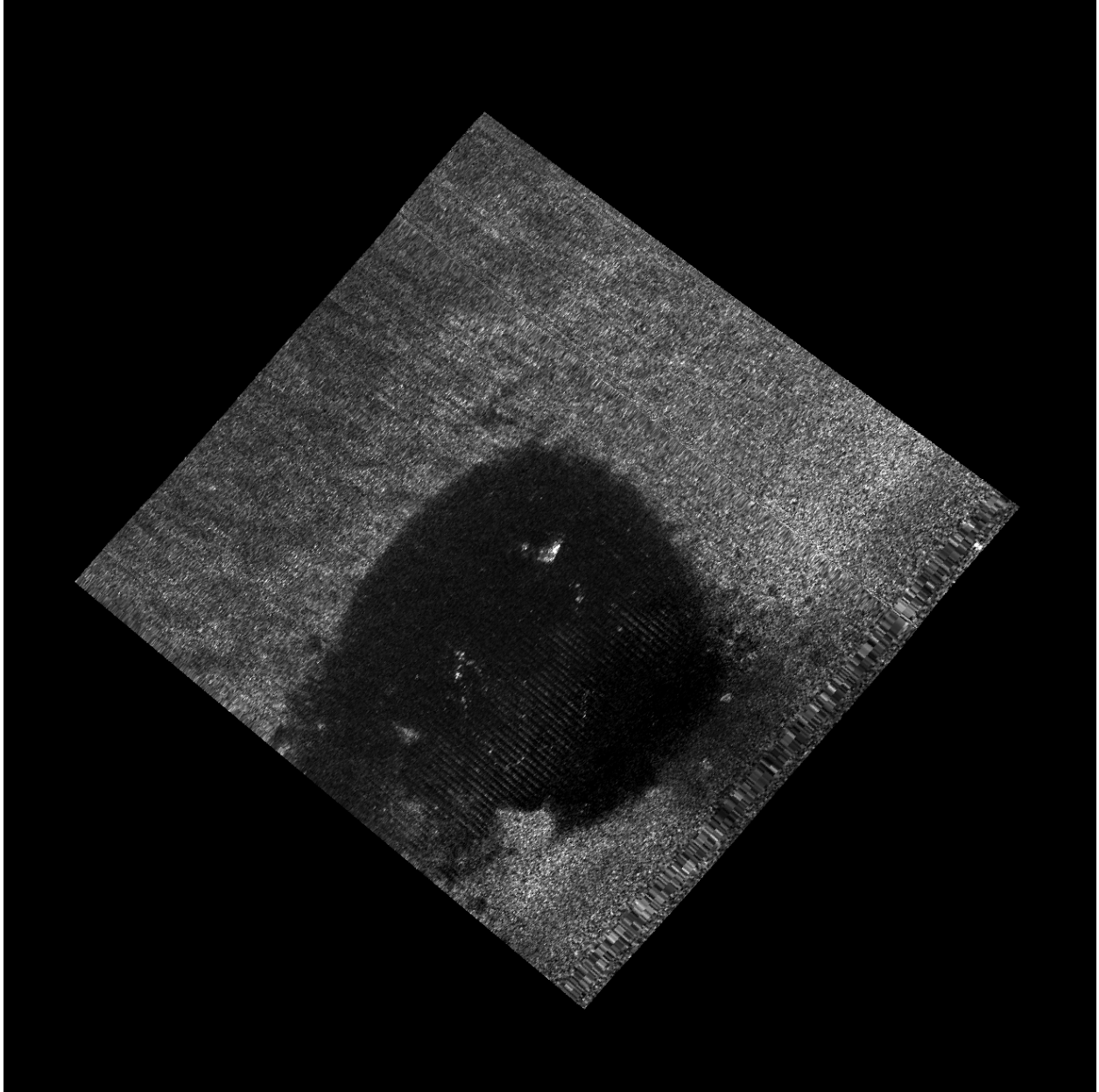
## Office Notes

Concur. Chart a dangerous 31-ft Obstn at the surveyed location.

## Feature Images

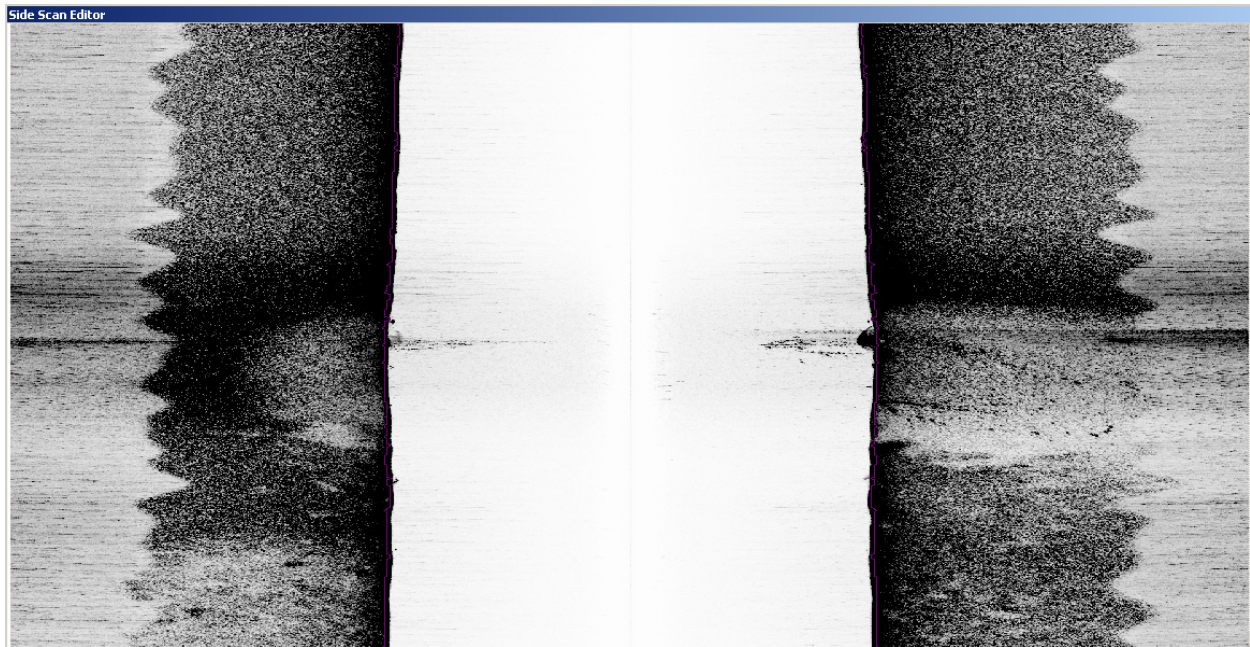
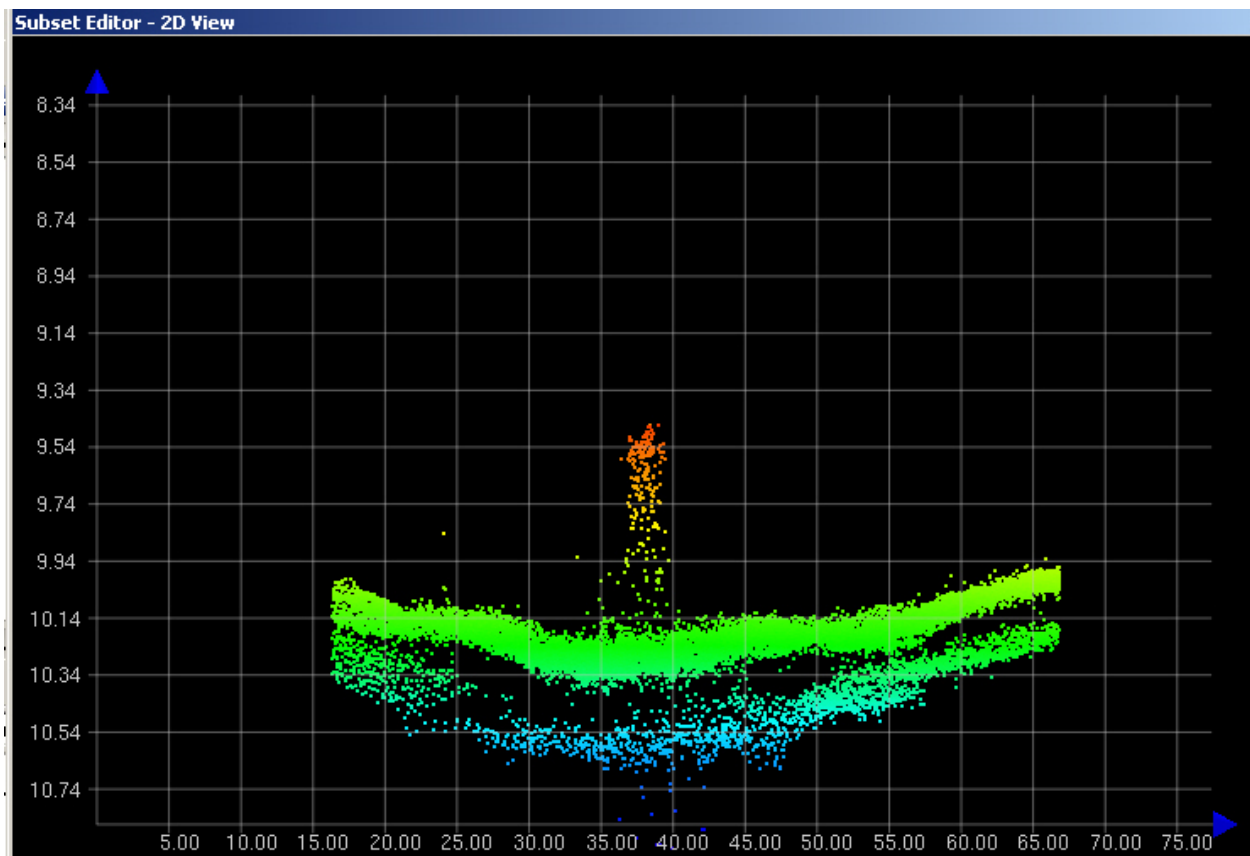


*Figure 1.15.1*



*Figure 1.15.2*



*Figure 1.15.3**Figure 1.15.4*

## 1.16) 44-ft Obstrn

### Survey Summary

**Survey Position:** 30° 08' 13.3" N, 088° 33' 40.0" W  
**Least Depth:** 13.17 m (= 43.20 ft = 7.199 fm = 7 fm 1.20 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.981$  m ; **TVU (TPEv)**  $\pm 0.407$  m  
**Timestamp:** 2005-263.14:09:03.285 (09/20/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-263 / 118\_1404  
**Profile/Beam:** 2805/11  
**Charts Affected:** 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

Indistinctly shaped object dragged across bottom before coming to rest, possibly an anchor.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-263/118_1404	2805/11	0.00	000.0	Primary
h11512/tj_3102_klein5000_sss100/2005-253/2034	0001	3.73	295.5	Secondary

### Hydrographer Recommendations

Object less than 1m off bottom - recommend not charted as an Obstrn

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

43ft (11373\_1)

7 ¼fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

7fm 1ft (11366\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 1:depth known  
 TECSOU - 2:found by side scan sonar  
 VALSOU - 13.166 m  
 WATLEV - 3:always under water/submerged

## Office Notes

Do not Concur. Recommend chart 44-ft Obstn. Appears to be drag scour with elevated object approximately 0.8m rise above the seafloor.



## Feature Images

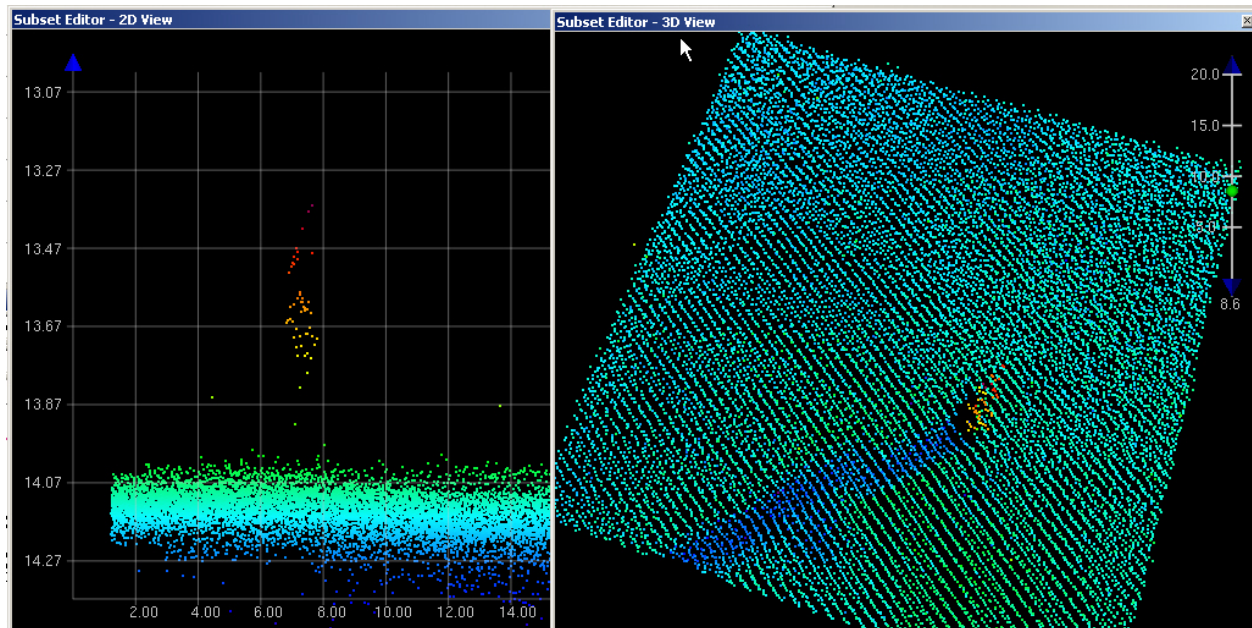


Figure 1.16.1

**1.17) 43-ft Obstn****Survey Summary**

**Survey Position:** 30° 08' 19.9" N, 088° 33' 28.5" W  
**Least Depth:** 13.23 m (= 43.40 ft = 7.234 fm = 7 fm 1.40 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.981$  m ; **TVU (TPEv)**  $\pm 0.405$  m  
**Timestamp:** 2005-263.13:17:18.603 (09/20/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-263 / 113\_1314  
**Profile/Beam:** 1639/141  
**Charts Affected:** 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

Object - debris or possibly a mud mound

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-263/113_1314	1639/141	0.00	000.0	Primary
h11512/tj_3102_klein5000_sss100/2005-253/2036	0002	7.84	063.3	Secondary

**Hydrographer Recommendations**

The hydrographer recommends a representative sounding be charted.

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

43ft (11373\_1)

7 ¼fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

7fm 1ft (11366\_1)

**S-57 Data**

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 STATUS - 1:permanent  
 TECSOU - 3:found by multi-beam  
 VALSOU - 13.229 m  
 VERDAT - 12:Mean lower low water

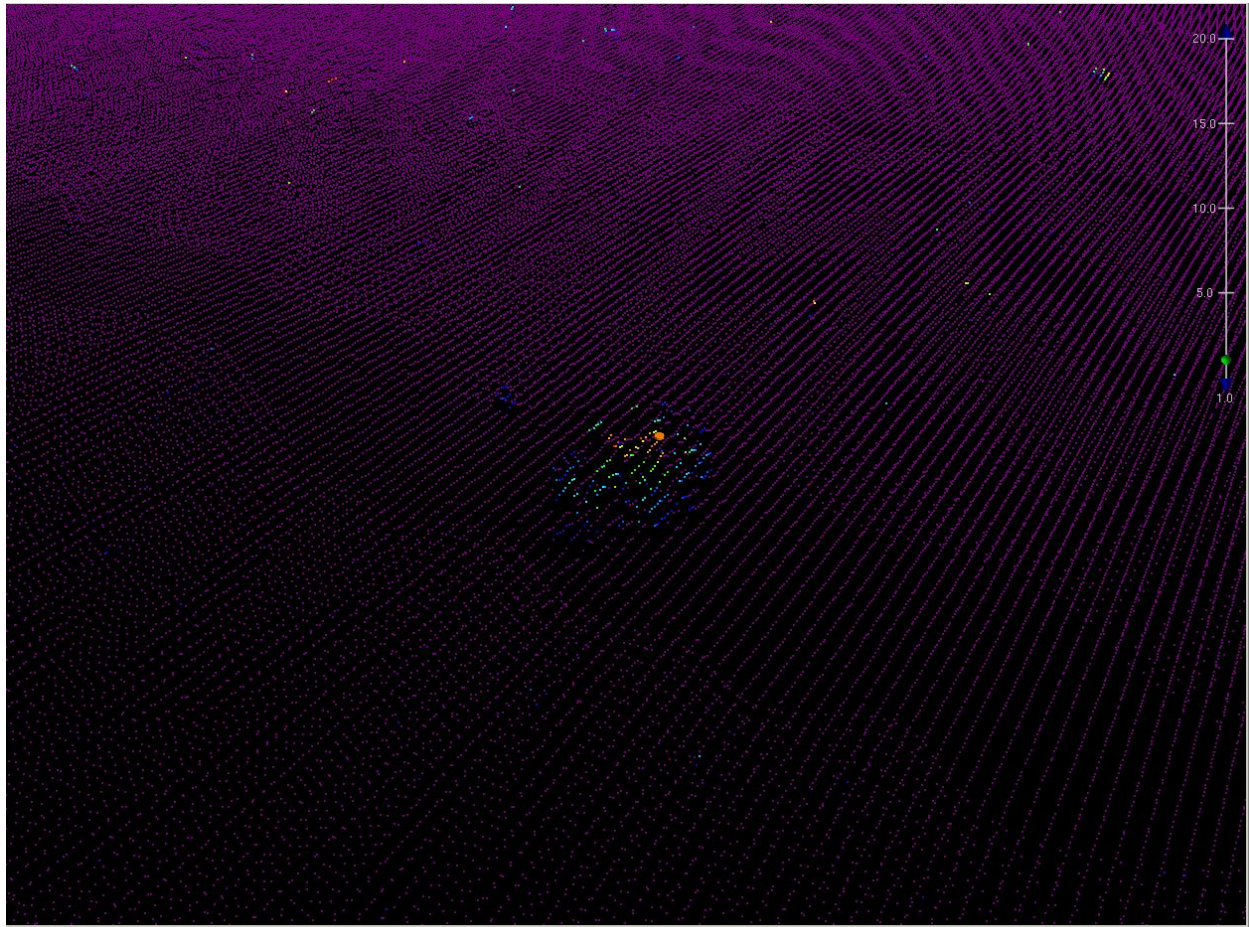
WATLEV - 3:always under water/submerged

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

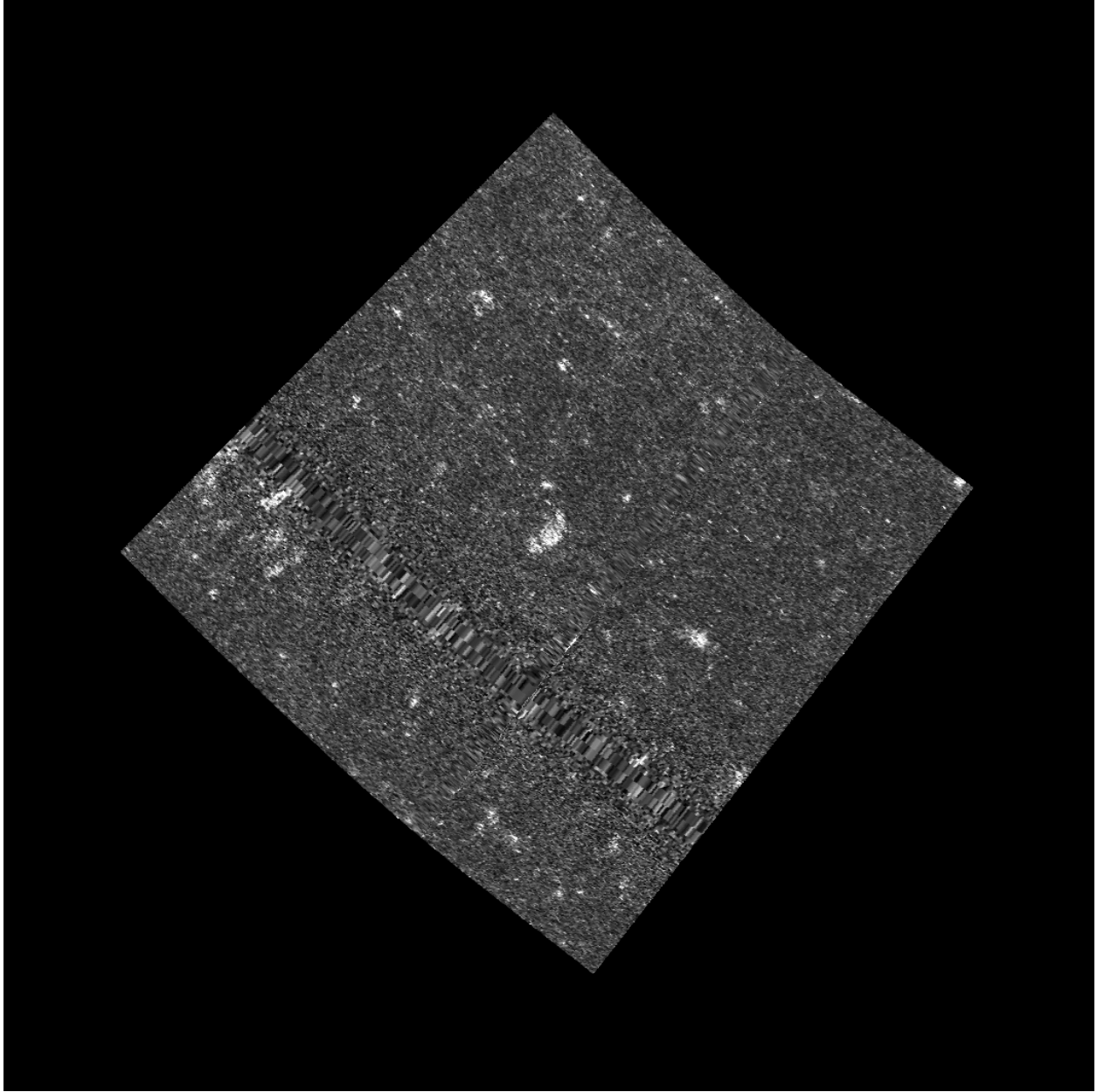
## Office Notes

Do Not Concur. Chart a 43 Obstruction at the surveyed location.

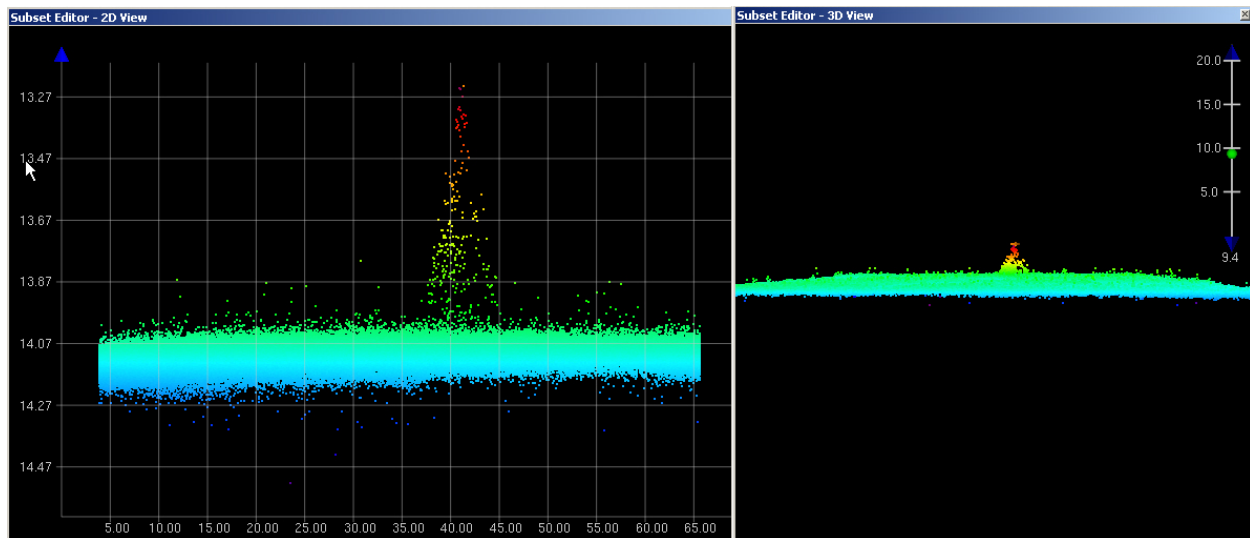
## Feature Images



*Figure 1.17.1*



*Figure 1.17.2*

*Figure 1.17.3*

**1.18) 35-ft Obstn****Survey Summary**

**Survey Position:** 30° 11' 17.6" N, 088° 31' 43.7" W  
**Least Depth:** 11.26 m (= 36.93 ft = 6.155 fm = 6 fm 0.93 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.980$  m ; **TVU (TPEv)**  $\pm 0.406$  m  
**Timestamp:** 2005-259.22:40:33.066 (09/16/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-259 / 004\_2237  
**Profile/Beam:** 2217/39  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

Object dragged through and partially sunken into the bottom

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-259/004_2237	2217/39	0.00	000.0	Primary
h11512/tj_3102_klein5000_sss100/2005-252/2048	0002	0.90	025.0	Secondary
h11512/tj_3102_klein5000_sss100/2005-252/2048	0003	4.06	222.7	Secondary

**Hydrographer Recommendations**

Object less than 1m off bottom - recommend not charted as Obstn

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

37ft (11375\_1, 11374\_1, 11373\_1)

6fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

6fm 1ft (11366\_1)

**S-57 Data**

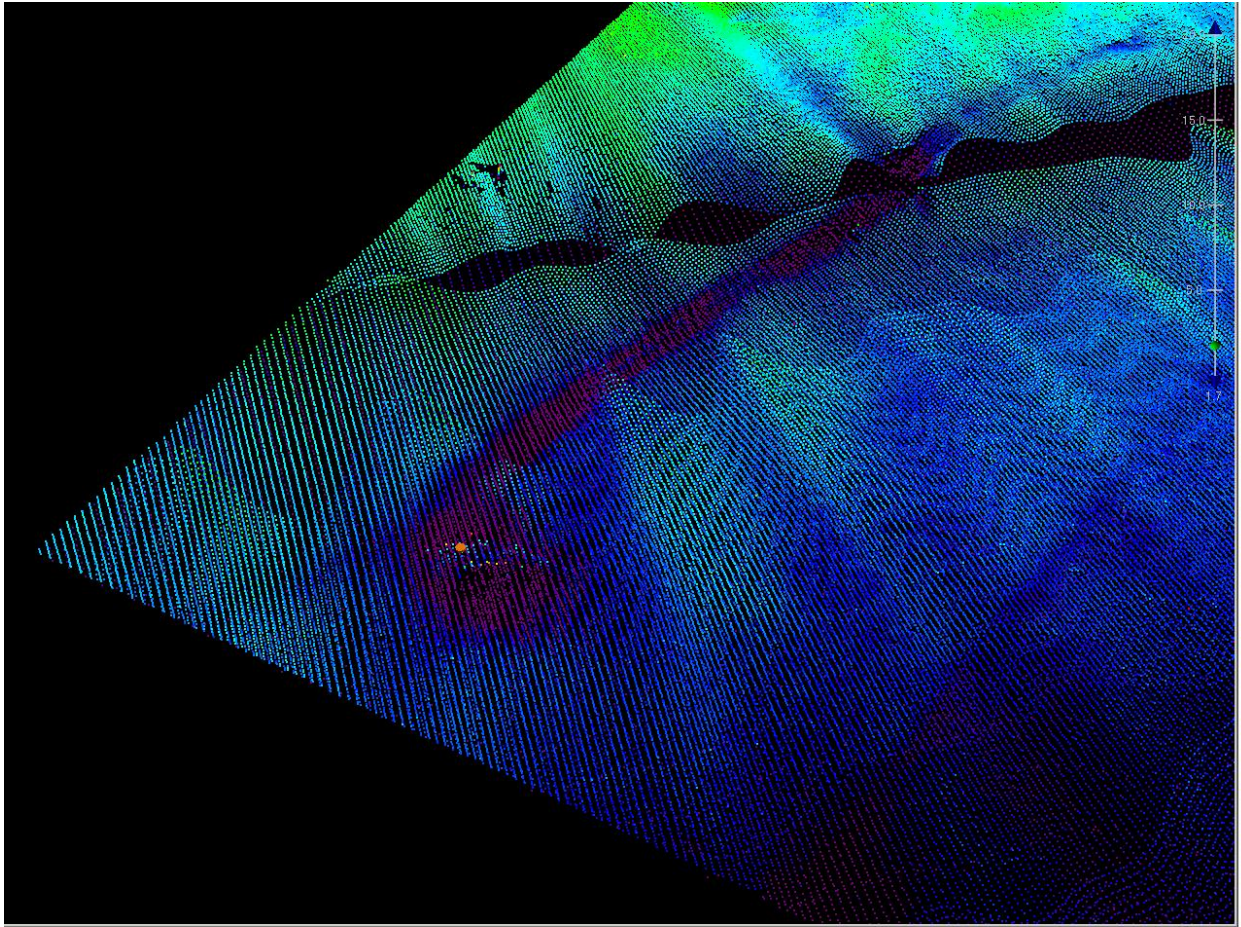
**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 1:depth known  
 TECSOU - 2:found by side scan sonar  
 VALSOU - 11.257 m  
 WATLEV - 3:always under water/submerged

## Office Notes

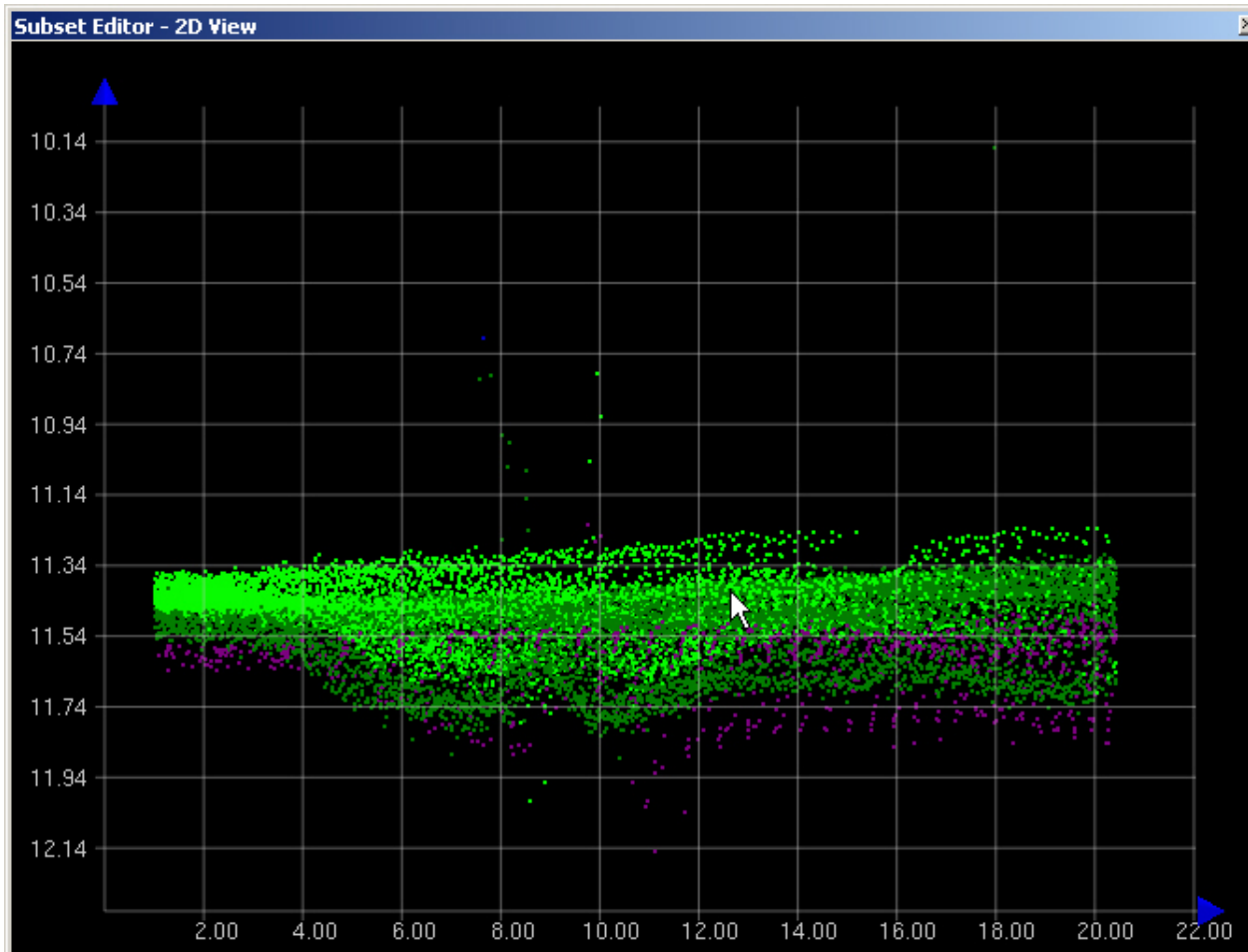
Do not concur. Side scan shadow indicates 1.6m height above seafloor. Multibeam data indicates a least depth of 10.683m (35.049ft) located at 30°11'17.583"N, 088°31'43.746"W. Appears to be a scour with associated abandoned buoy block. Recommend to chart 35-ft Obstr at the surveyed location.



## Feature Images



*Figure 1.18.1*

*Figure 1.18.2*

**1.19) 13-ft Obstn****Survey Summary**

**Survey Position:** 30° 13' 44.7" N, 088° 30' 10.1" W  
**Least Depth:** 4.04 m (= 13.26 ft = 2.210 fm = 2 fm 1.26 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.980$  m ; **TVU (TPEv)**  $\pm 0.405$  m  
**Timestamp:** 2005-254.13:03:25.829 (09/11/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-254 / 171\_1300  
**Profile/Beam:** 3407/240  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

Sunken structure or pillar buoy just N of sheet limits. Object reported to Nav Manager.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-254/171_1300	3407/240	0.00	000.0	Primary
h11512/tj_3102_klein5000_sss100/2005-253/3039	0001	4.59	325.3	Secondary

**Hydrographer Recommendations**

The hydrographer recommends a depth be charted per digital data with text "OBSTN"

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

13ft (11375\_1, 11374\_1, 11373\_1)

2 ¼fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

2fm 1ft (11366\_1)

**S-57 Data**

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 1:depth known  
 STATUS - 1:permanent  
 TECSOU - 3:found by multi-beam  
 VALSOU - 4.042 m  
 VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

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

## **Office Notes**

Concur. Chart a dangerous 13-ft Obstruction at the surveyed location.



## Feature Images

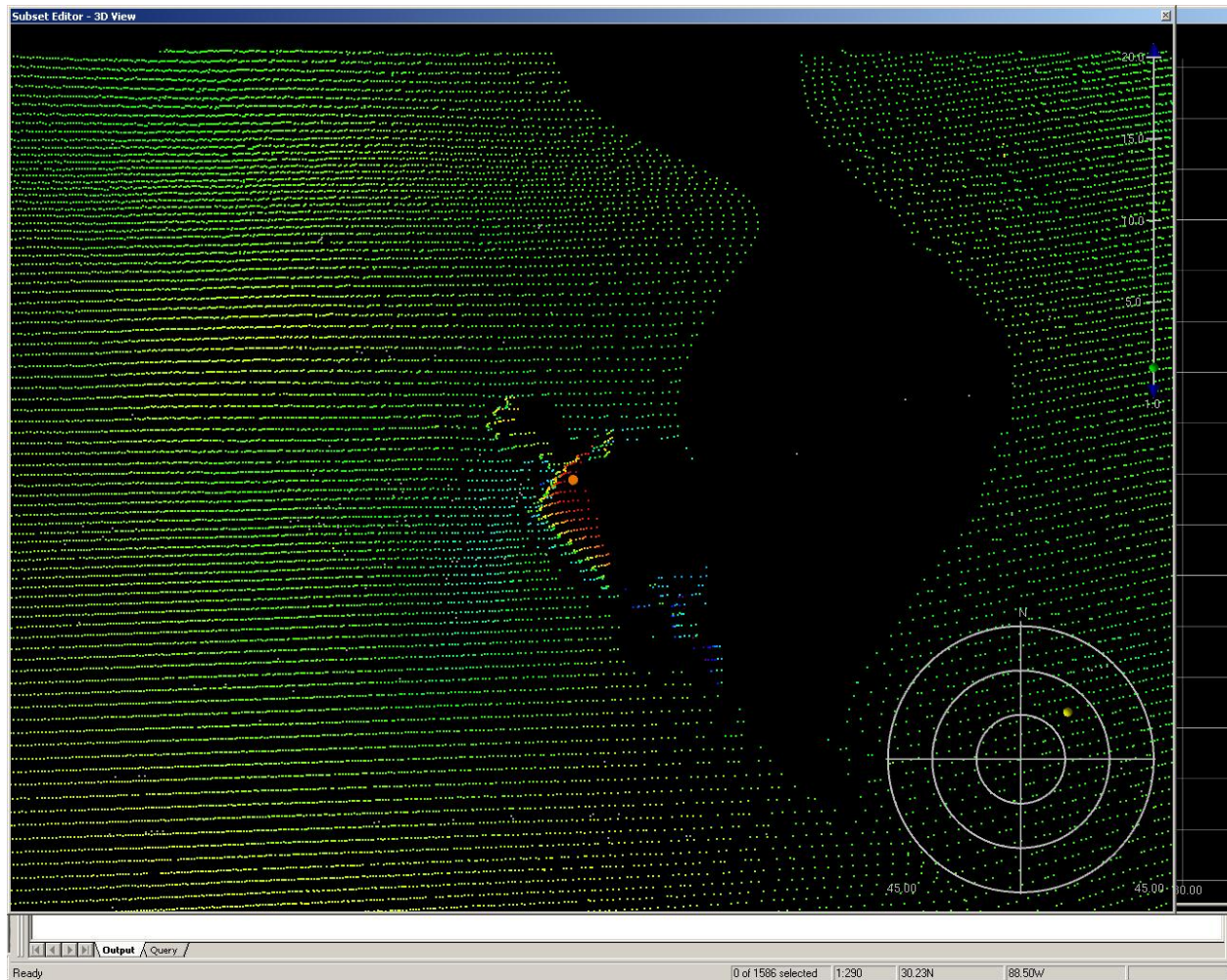
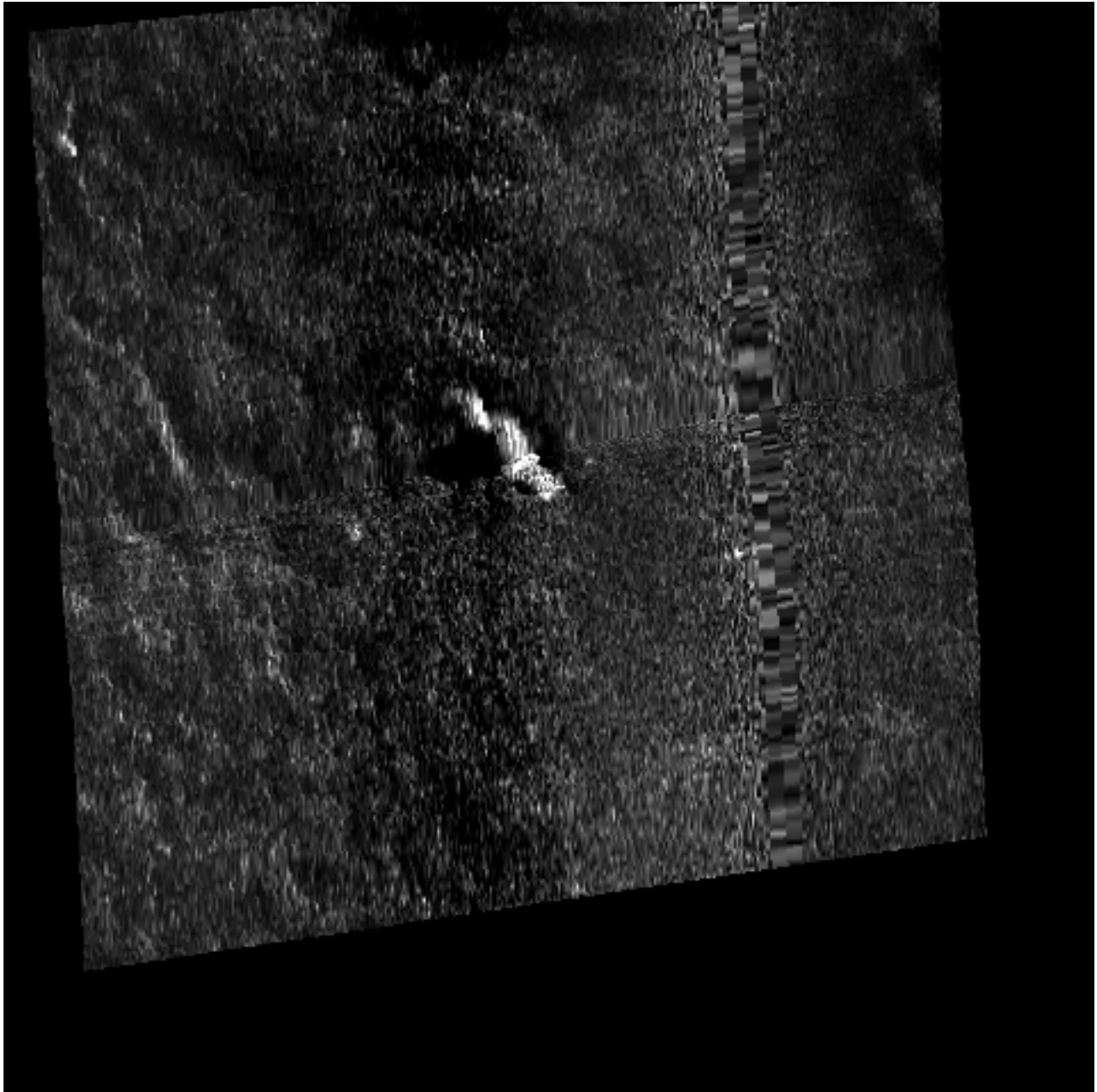
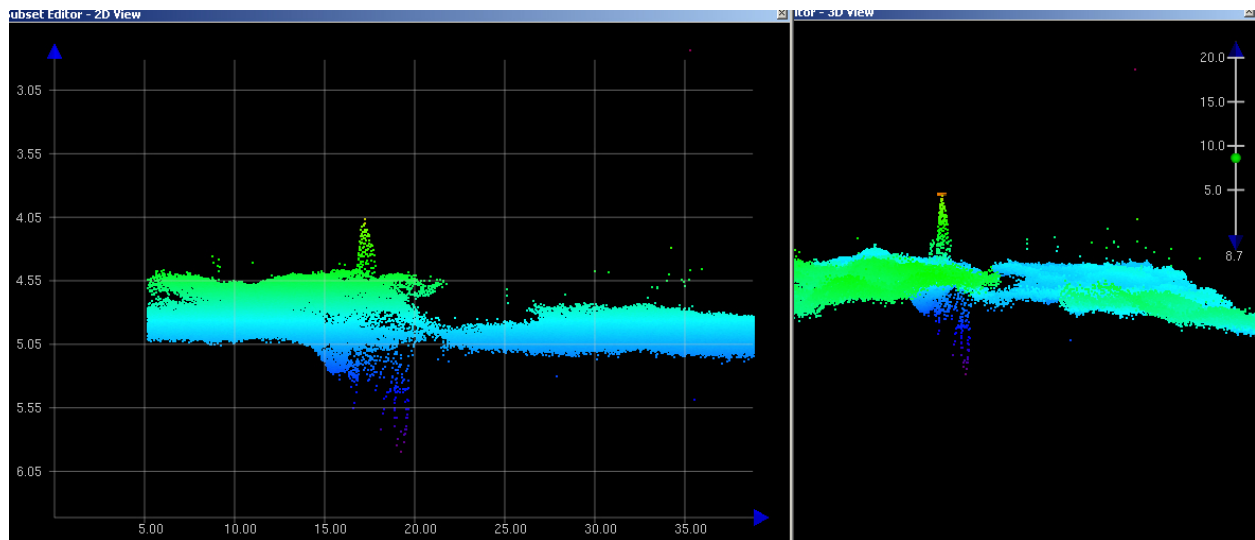


Figure 1.19.1



*Figure 1.19.2*

*Figure 1.19.3*

**1.20) 40-ft Obstn****Survey Summary**

**Survey Position:** 30° 12' 57.4" N, 088° 30' 40.1" W  
**Least Depth:** 12.41 m (= 40.70 ft = 6.784 fm = 6 fm 4.70 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.980$  m ; **TVU (TPEv)**  $\pm 0.405$  m  
**Timestamp:** 2005-254.18:27:20.134 (09/11/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-254 / 937\_1826  
**Profile/Beam:** 557/105  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

Object appears to be an old buoy block.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-254/937_1826	557/105	0.00	000.0	Primary
h11512/tj_3101_reson8125/2005-254/937_1826	556/106	0.35	359.1	Secondary (grouped)
h11512/tj_3102_klein5000_sss100/2005-252/3019	0005	3.50	250.0	Secondary

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

40ft (11375\_1, 11374\_1, 11373\_1)

6  $\frac{3}{4}$ fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

6fm 4ft (11366\_1)

**S-57 Data**

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** VALSOU - 12.406 m  
 WATLEV - 3:always under water/submerged



## Office Notes

Concur with clarification. Chart 40-ft (12.406m) Obstn at the surveyed location.

## Feature Images

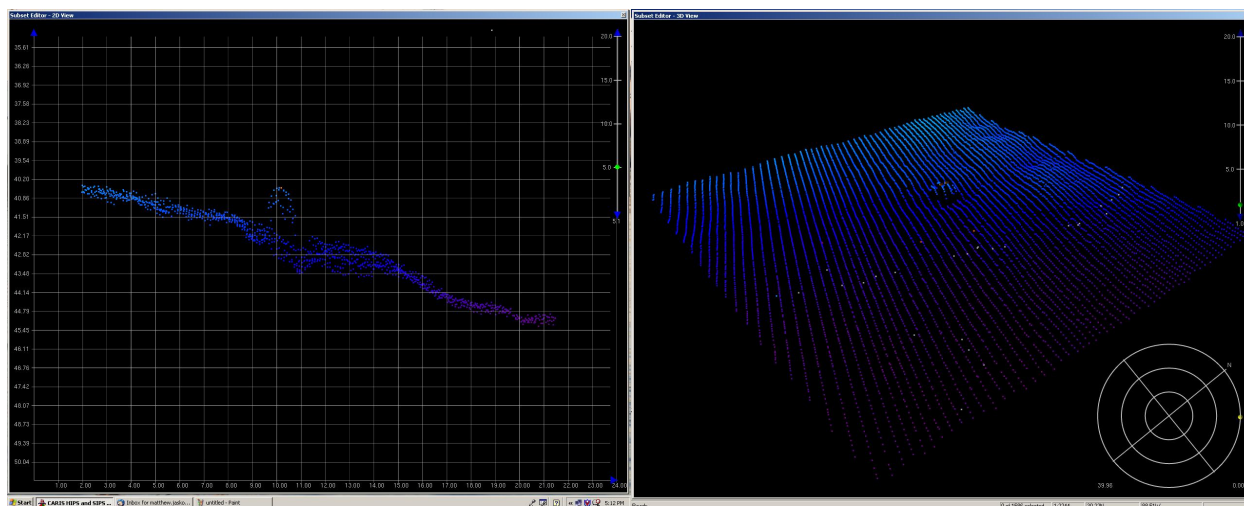


Figure 1.20.1

[Image file h:/compilation/h11512\_j376-tj/ahb/pss/images/30190005\_m.tif does not exist.]

**1.21) 41-ft Obstn****Survey Summary**

**Survey Position:** 30° 12' 02.9" N, 088° 31' 03.4" W  
**Least Depth:** 12.50 m (= 41.02 ft = 6.836 fm = 6 fm 5.02 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.980$  m ; **TVU (TPEv)**  $\pm 0.406$  m  
**Timestamp:** 2005-260.22:38:38.680 (09/17/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-260 / 029\_2235  
**Profile/Beam:** 2112/216  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

Object appears to be an old buoy block. Object reported to Nav Manager.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-260/029_2235	2112/216	0.00	000.0	Primary
h11512/tj_3101_reson8125/2005-253/986_1943	2060/181	1.54	089.8	Secondary

**Hydrographer Recommendations**

The hydrographer recommends the object be charted as an OBSTN depth per digital data.

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

41ft (11375\_1, 11374\_1, 11373\_1)

6  $\frac{3}{4}$ fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

6fm 5ft (11366\_1)

**S-57 Data**

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 STATUS - 1:permanent  
 TECSOU - 3:found by multi-beam  
 VALSOU - 12.502 m  
 VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

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

### **Office Notes**

Concur. Chart a dangerous 41-ft Obstruction at the surveyed location. Recommend to reference source information concerning USACE dredging and channel surveys as feature is located on the Horn Island Pass channel edge. Defer final charting disposition to MCD.

## Feature Images

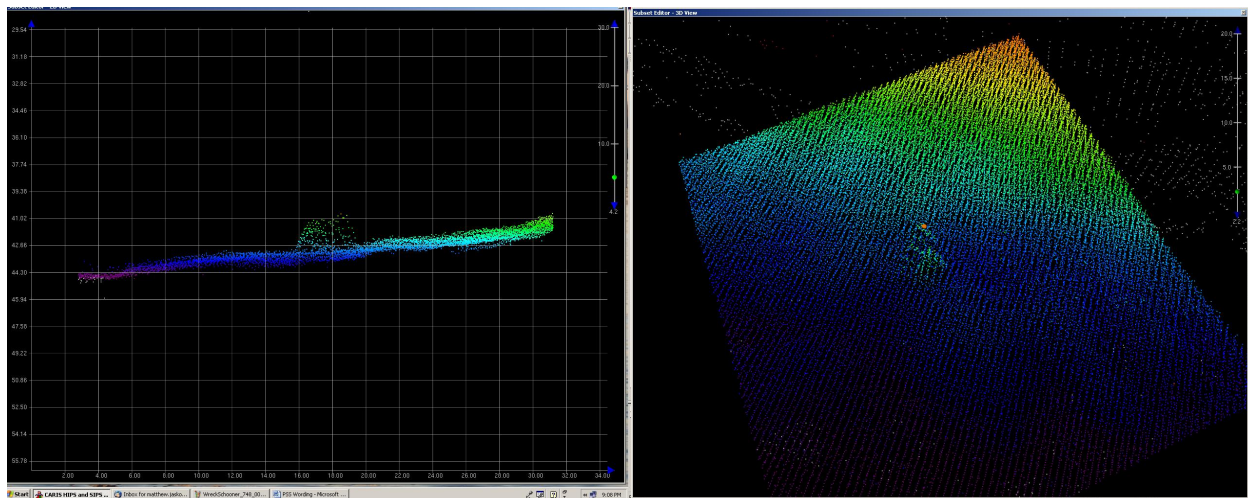


Figure 1.21.1

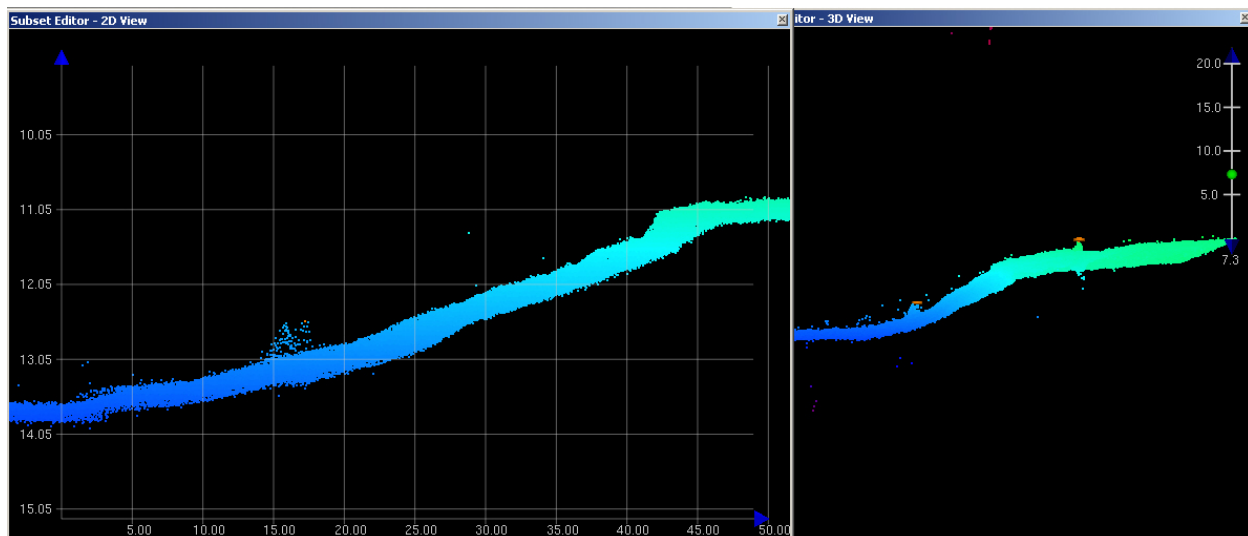


Figure 1.21.2

**1.22) 33-ft Obstn****Survey Summary**

**Survey Position:** 30° 12' 01.7" N, 088° 31' 02.2" W  
**Least Depth:** 10.11 m (= 33.16 ft = 5.526 fm = 5 fm 3.16 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.980$  m ; **TVU (TPEv)**  $\pm 0.407$  m  
**Timestamp:** 2005-261.12:46:05.630 (09/18/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-261 / 004\_1241  
**Profile/Beam:** 3923/1  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

Buoy Block and Appx 13m of chain

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-261/004_1241	3923/1	0.00	000.0	Primary
h11512/tj_3102_klein5000_sss100/2005-253/3009	0001	3.11	185.5	Secondary

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

33ft (11375\_1, 11374\_1, 11373\_1)

5 ½fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

5fm 3ft (11366\_1)

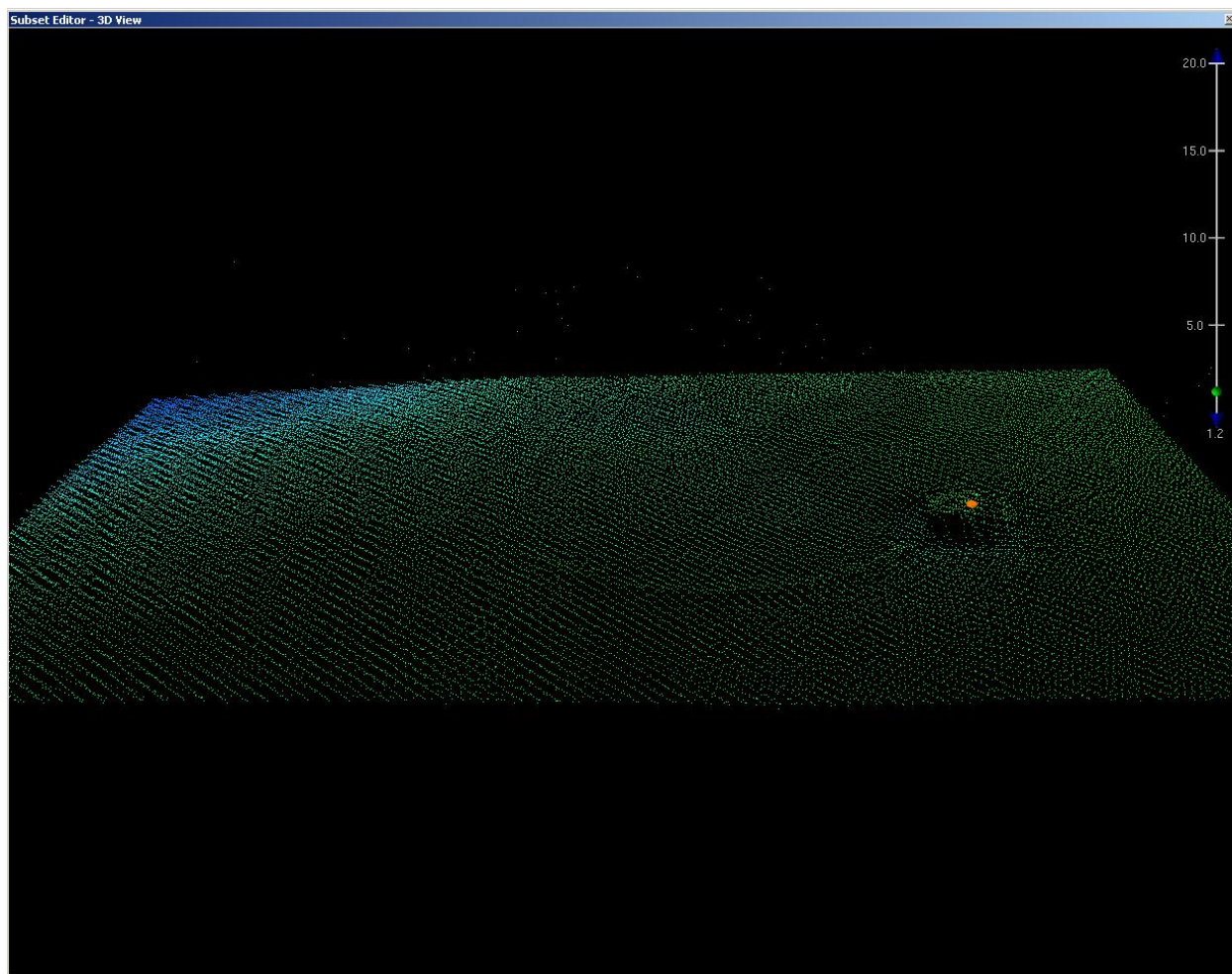
**S-57 Data**

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** VALSOU - 10.106 m  
WATLEV - 3:always under water/submerged

## Office Notes

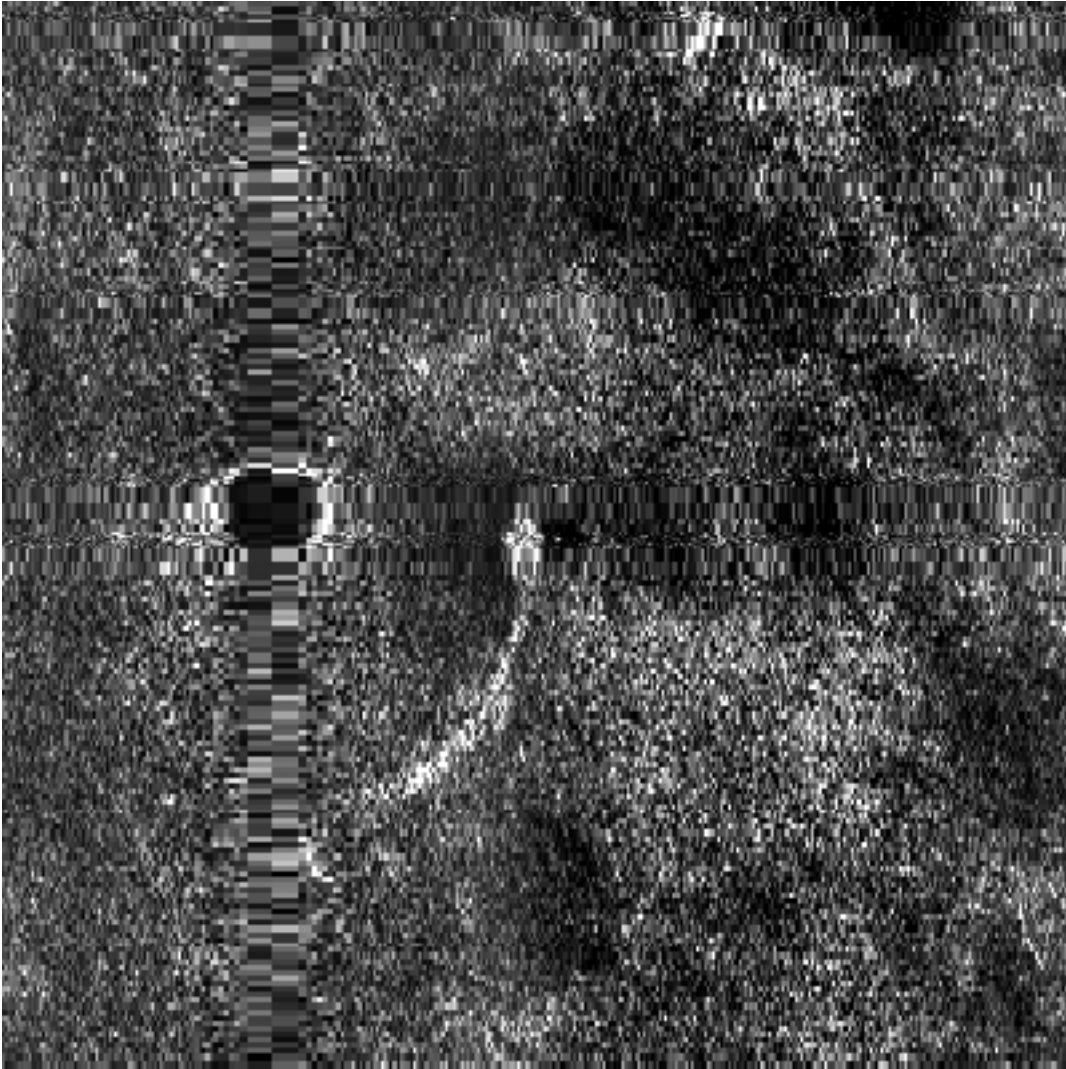
Concur with clarification. Obstruction rises 0.6m above seafloor. Appears to be buoy block and chain lying on seafloor. Recommend charting 33-ft Obstn at the surveyed location.

## Feature Images



*Figure 1.22.1*





*Figure 1.22.2*

## 1.23) 41-ft Obstrn

### Survey Summary

**Survey Position:** 30° 11' 49.3" N, 088° 31' 22.9" W  
**Least Depth:** 12.70 m (= 41.68 ft = 6.947 fm = 6 fm 5.68 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.980$  m ; **TVU (TPEv)**  $\pm 0.406$  m  
**Timestamp:** 2005-254.19:46:41.362 (09/11/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-254 / 911\_1944  
**Profile/Beam:** 1427/40  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

Object in the channel slightly deeper than controlling depth

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-254/911_1944	1427/40	0.00	000.0	Primary
h11512/tj_3102_klein5000_sss100/2005-252/3008	0005	2.04	340.7	Secondary
h11512/tj_3102_klein5000_sss100/2005-252/3008	0004	9.22	208.1	Secondary

### Hydrographer Recommendations

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

41ft (11375\_1, 11374\_1, 11373\_1)

7fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

6fm 5ft (11366\_1)

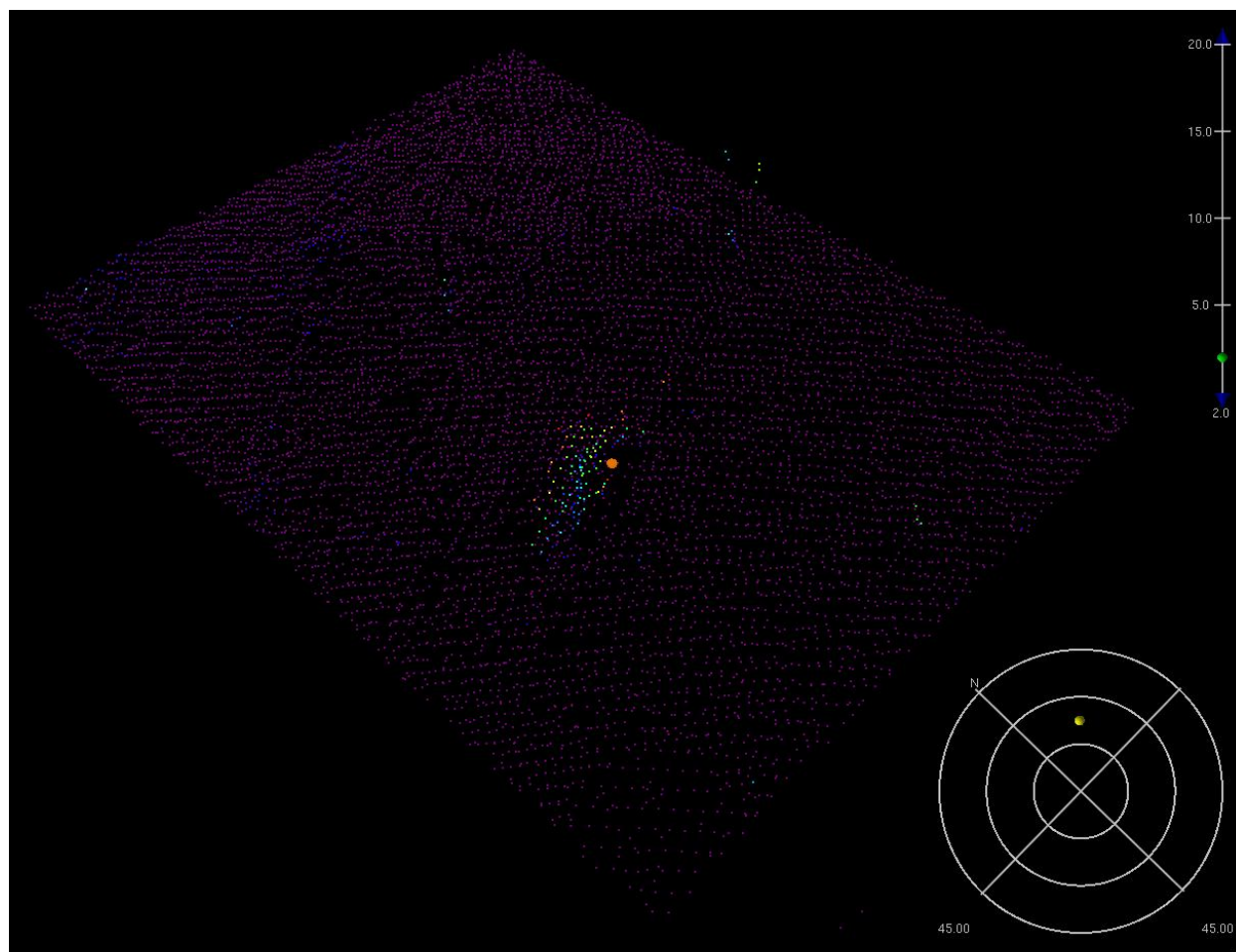
### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** VALSOU - 12.704 m  
 WATLEV - 3:always under water/submerged

## Office Notes

RConcur with clarification. Recommend to defer final charting disposition to MCD, post NDB reference of source USACE channel and possible dredge surveys. Feature remains within the AHB H11512 H-Cell. Reference DR Appendix 2.

## Feature Images



*Figure 1.23.1*

[Image file h:/compilation/h11512\_j376-tj/ahb/pss/images/30080004\_m.tif does not exist.]

**1.24) 38-ft Obstn****Survey Summary**

**Survey Position:** 30° 09' 50.8" N, 088° 32' 50.1" W  
**Least Depth:** 11.78 m (= 38.65 ft = 6.442 fm = 6 fm 2.65 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.980$  m ; **TVU (TPEv)**  $\pm 0.407$  m  
**Timestamp:** 2005-257.21:22:57.422 (09/14/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-257 / 460\_2122  
**Profile/Beam:** 360/235  
**Charts Affected:** 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

Correct least depth of "Object (404m SW of Awois 12615)"

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-257/460_2122	360/235	0.00	000.0	Primary
h11512/tj_3101_reson8125/2005-257/618_1658	47/10	1.02	250.6	Secondary
h11512/tj_3102_klein5000_sss100/2005-254/2000	0001	1.38	109.1	Secondary (grouped)

**Hydrographer Recommendations**

[None]

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

38ft (11373\_1)

6 ½fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

6fm 2ft (11366\_1)

**S-57 Data**

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** QUASOU - 6:least depth known  
 TECSOU - 3:found by multi-beam  
 VALSOU - 11.782 m  
 VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

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

## Office Notes

Concur with clarification. Chart 38-ft Obstruction at the surveyed location.

## 1.25) 42-ft Obstn (associated with AWOIS 7944 7946)

### Survey Summary

**Survey Position:** 30° 11' 48.1" N, 088° 31' 24.5" W  
**Least Depth:** 12.92 m (= 42.40 ft = 7.066 fm = 7 fm 0.40 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 0.980$  m ; TVU (TPEv)  $\pm 0.407$  m  
**Timestamp:** 2005-253.19:31:52.053 (09/10/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-253 / 304\_1927  
**Profile/Beam:** 3239/13  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

Object deeper than controlling depth of channel

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-253/304_1927	3239/13	0.00	000.0	Primary
h11512/tj_3102_klein5000_sss100/2005-252/3008	0006	1.33	329.3	Secondary

### Hydrographer Recommendations

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

42ft (11375\_1, 11374\_1, 11373\_1)

7fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

7fm 0ft (11366\_1)

### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** VALSOU - 12.922 m  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Recommend to defer final charting disposition to MCD, post NDB reference of source USACE channel and possible dredge surveys. Feature remains within the AHB H11512 H-Cell. This feature can be correlated to AWOIS #7944 #7946. Recommend to update AWOIS database with H11512 survey results.



## Feature Images

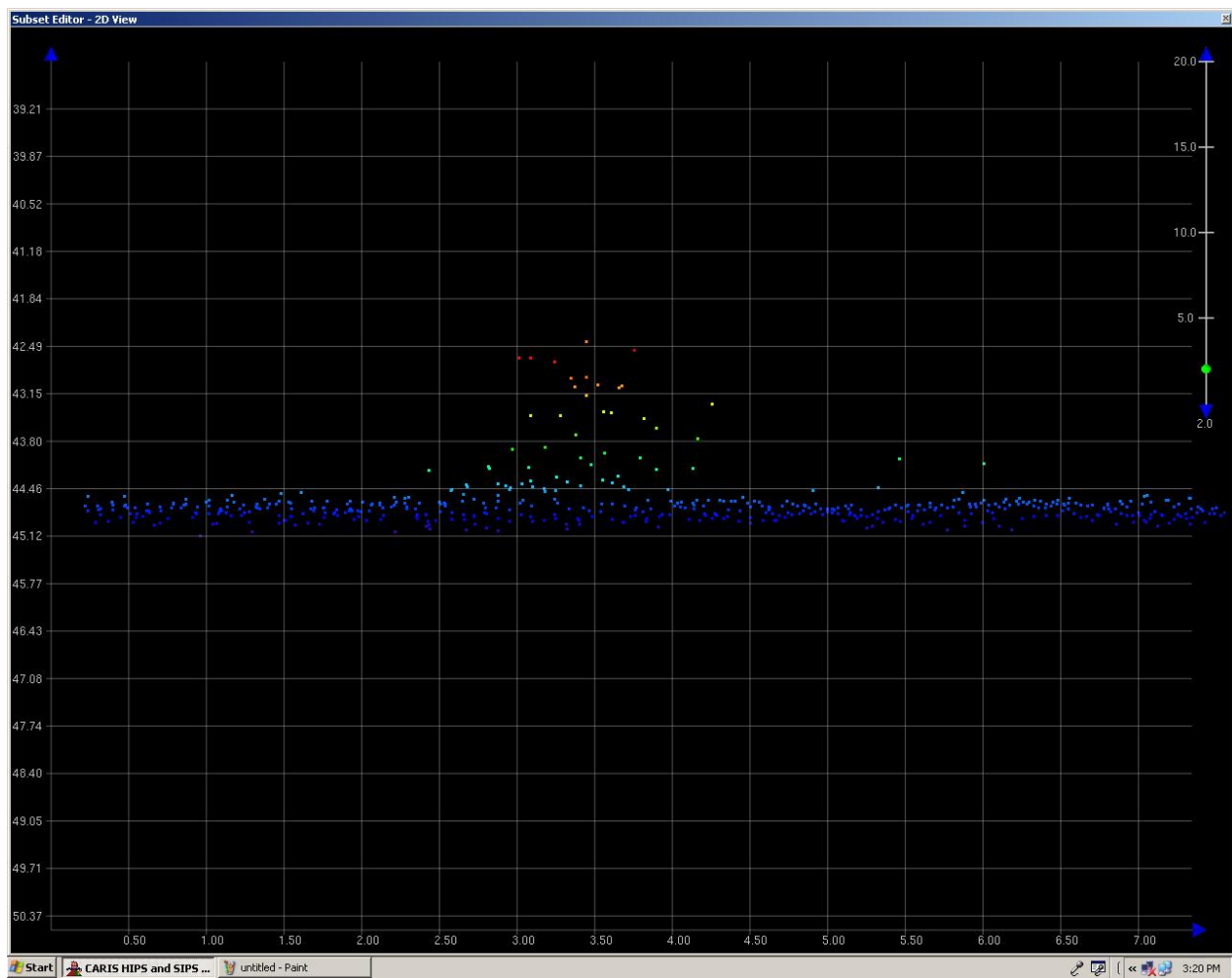


Figure 1.25.1

**1.26) AWOIS #7944 38-ft Obstrn****Survey Summary**

**Survey Position:** 30° 11' 47.5" N, 088° 31' 25.1" W  
**Least Depth:** 11.77 m (= 38.60 ft = 6.433 fm = 6 fm 2.60 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.980$  m ; **TVU (TPEv)**  $\pm 0.407$  m  
**Timestamp:** 2005-253.19:31:57.539 (09/10/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-253 / 304\_1927  
**Profile/Beam:** 3304/2  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

Object shallower than controlling depth of channel

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-253/304_1927	3304/2	0.00	000.0	Primary
h11512/tj_3102_klein5000_sss100/2005-252/3008	0007	1.87	295.4	Secondary

**Hydrographer Recommendations**

Data regarding this object were provided to local area Nav Manager on date

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

38ft (11375\_1, 11374\_1, 11373\_1)

6 ¼fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

6fm 2ft (11366\_1)

**S-57 Data**

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** VALSOU - 11.765 m  
WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Recommend to defer final charting disposition to MCD, post NDB reference of source USACE channel and possible dredge surveys. Feature remains within the AHB H11512 H-Cell. This feature is located within the search radius for AWOIS Items #7944, #7945, and #7946. Reference DR Appendix 1.24

**1.27) 36-ft Obstn****Survey Summary**

**Survey Position:** 30° 12' 04.7" N, 088° 30' 59.5" W  
**Least Depth:** 11.04 m (= 36.20 ft = 6.034 fm = 6 fm 0.20 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.980$  m ; **TVU (TPEv)**  $\pm 0.407$  m  
**Timestamp:** 2005-260.16:37:48.580 (09/17/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-260 / 030\_1633  
**Profile/Beam:** 3317/234  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

Debris 3 objects outside the channel 120m SW of R12

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-260/030_1633	3317/234	0.00	000.0	Primary
h11512/tj_3101_reson8125/2005-261/002_1223	4128/110	8.31	246.0	Secondary
h11512/tj_3101_reson8125/2005-261/003_1232	2736/240	11.17	043.5	Secondary (grouped)

**Hydrographer Recommendations**

Objects less than 1m off bottom recommend not charted as Obstn

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

36ft (11375\_1, 11374\_1, 11373\_1)

6fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

6fm 0ft (11366\_1)

**S-57 Data**

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** VALSOU - 11.035 m  
WATLEV - 3:always under water/submerged

## Office Notes

Do Not Concur. chart 36-ft (11.035m) Obstn.

**1.28) 34-ft Obstn****Survey Summary**

**Survey Position:** 30° 12' 01.2" N, 088° 31' 03.6" W  
**Least Depth:** 10.65 m (= 34.94 ft = 5.823 fm = 5 fm 4.94 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.980$  m ; **TVU (TPEv)**  $\pm 0.405$  m  
**Timestamp:** 2005-260.22:49:37.108 (09/17/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-260 / 030\_2244  
**Profile/Beam:** 3109/203  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

Object appears to be an old buoy block

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-260/030_2244	3109/203	0.00	000.0	Primary

**Hydrographer Recommendations**

The hydrographer recommends the object be charted as an Obstn depth per digital data.

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

35ft (11375\_1, 11374\_1, 11373\_1)

5  $\frac{3}{4}$ fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

5fm 5ft (11366\_1)

**S-57 Data**

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** VALSOU - 10.650 m  
 WATLEV - 3:always under water/submerged

## Office Notes

Concur. Chart 34-ft (least depth 10.549m (34.609-ft) Obstn at the surveyed location.

## Feature Images

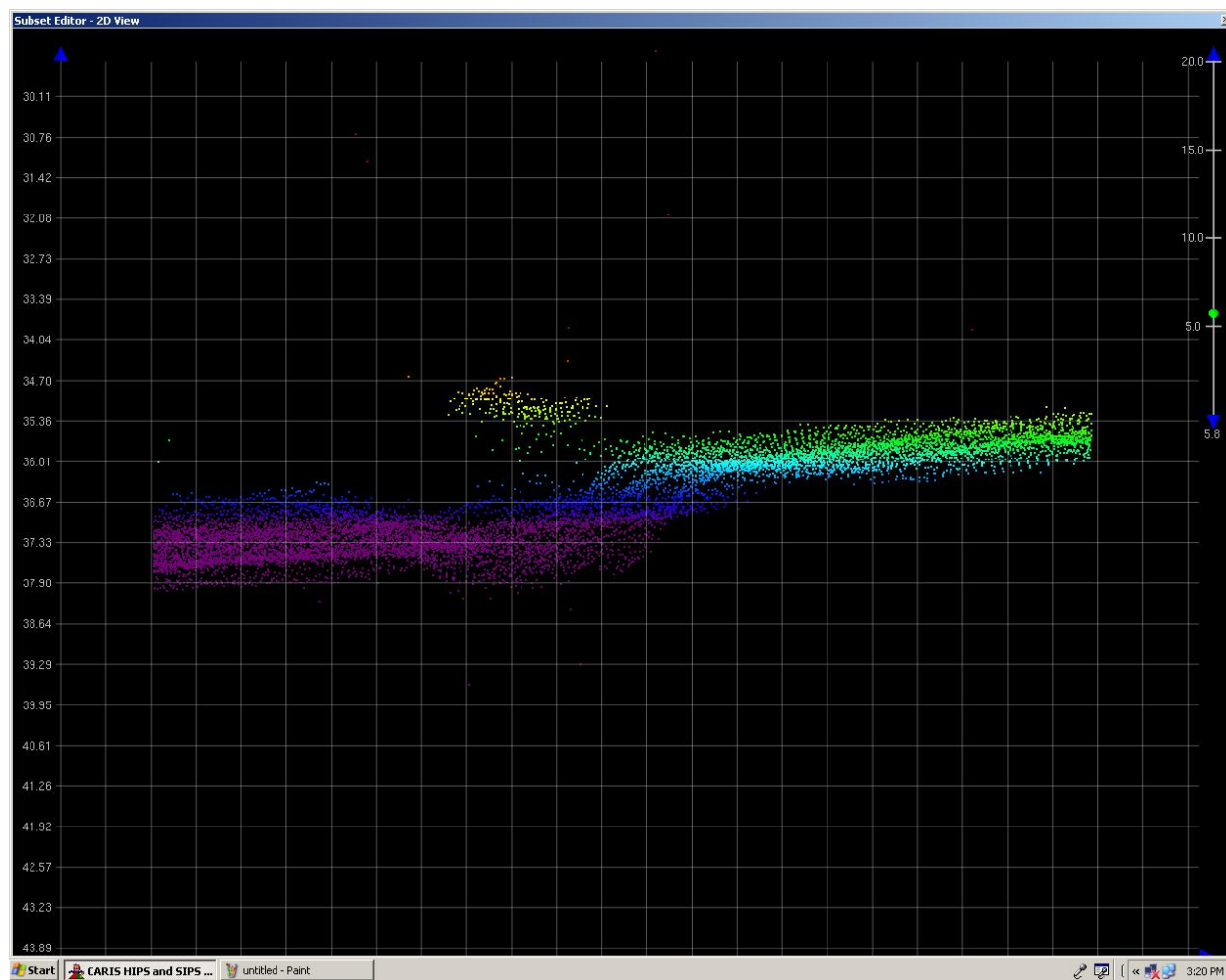


Figure 1.28.1



**1.29) 50-ft Obstn****Survey Summary**

**Survey Position:** 30° 13' 00.3" N, 088° 30' 36.5" W  
**Least Depth:** 15.35 m (= 50.37 ft = 8.395 fm = 8 fm 2.37 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.981$  m ; **TVU (TPEv)**  $\pm 0.406$  m  
**Timestamp:** 2005-254.16:18:14.856 (09/11/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-254 / 958\_1617  
**Profile/Beam:** 205/213  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

Object 2m by 2m and 1m off the bottom - Contact at outside edge of channel

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-254/958_1617	205/213	0.00	000.0	Primary
h11512/tj_3101_reson8125/2005-253/974_2030	3457/75	0.79	034.5	Secondary
h11512/tj_3102_klein5000_sss100/2005-252/3019	0001	1.70	059.5	Secondary

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

50ft (11375\_1, 11374\_1, 11373\_1)

8 ¼fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

8fm 2ft (11366\_1)

**S-57 Data**

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** VALSOU - 15.352 m  
WATLEV - 3:always under water/submerged

## Office Notes

Concur with clarification. Recommend chart 50-ft (15.352m) Obstn at the surveyed location.

**1.31) 41-Obstn****Survey Summary**

**Survey Position:** 30° 09' 48.1" N, 088° 32' 54.3" W  
**Least Depth:** 12.61 m (= 41.35 ft = 6.892 fm = 6 fm 5.35 ft)  
**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.981$  m ; **TVU (TPEv)**  $\pm 0.408$  m  
**Timestamp:** 2005-254.22:38:41.420 (09/11/2005)  
**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-254 / 778\_2238  
**Profile/Beam:** 276/238  
**Charts Affected:** 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

[None]

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-254/778_2238	276/238	0.00	000.0	Primary

**Hydrographer Recommendations**

[None]

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

41ft (11373\_1)

6  $\frac{3}{4}$ fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

6fm 5ft (11366\_1)

**S-57 Data**

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** INFORM - 41-ft Obstn  
 QUASOU - 6:least depth known  
 SORDAT - 20050920  
 SORIND - US,US,Nsurf,H11512  
 TECSOU - 2,3:found by side scan sonar,found by multi-beam  
 VALSOU - 12.605 m

VERDAT - 16:Mean high water

WATLEV - 3:always under water/submerged

### **Office Notes**

Feature not resolved by field unit. SS contact noted, but unresolved with bathy data interpretation. Recommend chart 41-ft (12.605m)Obstn at the surveyed location.

# OPR-J376-TJ-05 H11512 Appendix 2 AWOIS Items

**Registry Number:** H11512  
**State:** MS  
**Locality:** Gulf of Mexico  
**Sub-locality:** Horn Isl. Pass and Approaches  
**Project Number:** OPR-J376-TJ-05  
**Survey Dates:** 9/9/2005 - 9/20/2005

## Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11375	36th	01/01/2005	1:20,000 (11375_1)	[L]NTM: ?
11374	34th	10/01/2007	1:40,000 (11374_1)	USCG LNM: 12/25/2007 (05/20/2008) NGA NTM: 11/18/2006 (05/24/2008)
11373	44th	01/01/2005	1:80,000 (11373_1)	[L]NTM: ?
11366	9th	03/01/2005	1:250,000 (11366_1)	[L]NTM: ?
11360	41st	03/01/2005	1:456,394 (11360_1)	[L]NTM: ?
1115A	41st	03/01/2005	1:456,394 (1115A_1)	[L]NTM: ?
11006	31st	09/01/2003	1:875,000 (11006_1)	[L]NTM: ?
411	49th	03/01/2003	1:2,160,000 (411_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	IRONSIDE	AWOIS	[no data]	[no data]	[no data]	---
1.2	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
1.3	AWOIS 7213	AWOIS	[no data]	[no data]	[no data]	---
1.4	MISS SOPHIE	AWOIS	[no data]	[no data]	[no data]	---
1.5	Awois 7944 and 7946 Obstns PA	AWOIS	[None]	30° 11' 50.6" N	088° 31' 23.9" W	---
1.6	AWOIS #7945	AWOIS	[no data]	[no data]	[no data]	---
1.7	Awois 7944 and 7946 Obstns PA	AWOIS	[None]	30° 11' 50.6" N	088° 31' 23.9" W	---
1.8	MISS KIM WAN _ Retain as charted.	AWOIS	[no data]	[no data]	[no data]	---
1.9	AWOIS #12593	AWOIS	[no data]	[no data]	[no data]	---

1.10	AWOIS 12609 OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
1.11	Move OBSTN - AWOIS 12610	AWOIS	[no data]	[no data]	[no data]	---
1.12	Disproval AWOIS 12611 Chart Sounding	AWOIS	6.17 m	30° 11' 34.3" N	088° 31' 17.4" W	---
1.13	AWOIS #12612 OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
1.14	Awois12613 28ft Obstn	AWOIS	8.70 m	30° 11' 24.9" N	088° 32' 39.2" W	---
1.15	AWOIS 12614	AWOIS	[no data]	[no data]	[no data]	---
1.16	Disproval AWOIS 12615 Chart Sounding	AWOIS	12.65 m	30° 10' 01.0" N	088° 32' 39.9" W	---
1.17	Disproval AWOIS 12616	AWOIS	12.45 m	30° 10' 12.3" N	088° 32' 48.1" W	---
1.18	AWOIS 12608 UNKNOWN	AWOIS	[no data]	[no data]	[no data]	---

## **1 - DR Appendix 2 AWOIS**

## 1.1) AWOIS #2870 - IRONSIDE

### No Primary Survey Feature for this AWOIS Item

**Search Position:** 30° 11' 30.7" N, 088° 30' 48.0" W  
**Historical Depth:** [None]  
**Search Radius:** 0  
**Search Technique:** ES,S2,SD,MB,DI  
**Technique Notes:** [None]

#### History Notes:

LNM34/74--A 42 FT BOAT REPORTED SUNK OFF HORN ISLAND PASS CHANNEL. ■AT APPROX. POS.30-11-30N, 88-30-48W.■FE315SS/88--OPR-J433-RU/HE-88; ITEM NOT LOCATED. HOWEVER THE FOLLOWING ■OBSTRUCTIONS WITH ECHO SOUNDER DEPTHS WERE NOTED ON THE SONAR GRAMS DURING ■OFFICE PROCESSING: 21 FOOT OBSTR. IN LAT. 30-11-34.08N, LONG. 88-31-15.53W ■AWOIS NO.7129); 23 FOOT OBSTR. IN LAT. 30-11-34.17N, LONB. 88-31-17.63W ■(AWOIS NO.7131); 28 FOOT OBSTR. IN LAT. 30-11-20.57N, LONG. 88-31-18.10W ■ AWOIS NO.7130). SURVEY DID NOT INVESTIGATE AREA BETWEEN SHOAL AREA AND ■HORN ISLAND PASS CHANNEL. (UPDATE 4/12/89)

### Survey Summary

**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

Item not investigated

### Feature Correlation

Address	Feature	Range	Azimuth	Status
j376-AWOIS	AWOIS # 2870	0.00	000.0	Primary

### Hydrographer Recommendations

[None]

### S-57 Data

[None]



## Office Notes

Feature neither found nor disproved. Retain as charted.

## 1.2) AWOIS #4756 - OBSTRUCTION

### No Primary Survey Feature for this AWOIS Item

**Search Position:** 30° 10' 01.5" N, 088° 35' 16.1" W  
**Historical Depth:** [None]  
**Search Radius:** 0  
**Search Technique:** [None]  
**Technique Notes:** [None]

#### History Notes:

FE274WD/74--OPR-479-RU/HE-74; ESTIMATED HANG AT 40 FT. CLEARED BY 40 FT. IN ■ LAT. 30-10-00.80N, LONG. 88-35-16.10W. NOT INVESTIGATED BY DIVER. ■ LNM35/86--PUBLISHES ABOVE DATA. ■ FE313SS/88--OPR-J433-RU/HE-88; RESOLVED (PROCESSING INCOMPLETE, ■ 2/17/89) (UP 2/17/89, SJV) ■ FE313SS/88--OPR-J433-RU/HE-88; 400% SIDE SCAN SONAR OF REQUIRED 500 METER ■ RADIUS NEGATIVE. PRIOR WIRE DRAG HANG AT 40FT. BELIEVED TO HAVE BEEN A ■ GROUNDING OR A VERY SLIGHT PROJECTION ABOVE BOTTOM. EVALUATOR RECOMMENDS ■ DELETING CHARTED OBSTN CLEARED 40FT. (UP 8/10/89 SJV) ■ FE309WD/74--OPR-479-RU/HE-74; MODIFIED EVALUATION REPORT; CLEARED IN ONE ■ DIRECTION ONLY BY 41 FEET. SEE FE313SS/88.

### Survey Summary

**Charts Affected:** 11375\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

outside survey limits

### Feature Correlation

Address	Feature	Range	Azimuth	Status
j376-AWOIS	AWOIS # 4756	0.00	000.0	Primary

### Hydrographer Recommendations

[None]

### S-57 Data

[None]

## Office Notes

Feature neither resolved nor disproved. Retain as charted.

### 1.3) AWOIS #7213 - AWOIS 7213

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

**Search Position:** 30° 08' 51.8" N, 088° 33' 43.2" W  
**Historical Depth:** 12.41 m  
**Search Radius:** 500  
**Search Technique:** S2, DI,MB  
**Technique Notes:** [None]

#### History Notes:

FE309WD/74--OPR-479-RU/HE-74; FORMERLY H-9420WD (MODIFIED EVALUATION REPORT); ESTIMATED 42 FOOT HANG IN APPROX. POS. LAT. 30-08-53.3N, LONG. 88-33-48.7W (PLUS OR MINUS 1500 FEET); CLEARED IN ONE DIRECTION ONLY BY 40 FEET. IDENTIFIED AS A HUNK OF STEEL, 5 FEET WIDE AND EXTENDING 5 FEET OFF BOTTOM. LD OF 40 FEET UNSUPPORTED. EVALUATOR RECOMMENDS CHARTING A DANGEROUS SUBMERGED OBSTRUCTION, PA (CLEARED TO 40 FEET, 1974) IN SURVEYED POSITION. ADDITIONAL FIELD WORK RECOMMENDED TO ACCURATELY POSITION OBSTRUCTION AND OBTAIN LD. (ENT 3/24/89, SJV)■■■  
FE324/89SS--OPR-J433-RU-88/89--DIVER INVESTIGATION REVEALED A 54 FT LONG STEEL MAST LYING ON BOTTOM. DIVER DETERMINED LD 40.7 FT BY PNEUMATIC DEPTH GAUGE IN SURROUNDING DEPTHS OF 46 FT. EVALUATOR RECOMMENDS CHARTING DANGEROUS SUBMERGED OBSTR WITH DEPTH OF 40 FT AS SURVEYED. (UP 5/7/91 GKM).■ DESCRIPTION:■ \*\*\*\*  
LORAN-C RATES: 7980-CHAIN; 12435.6W, 29626.0X, 47058.7Y, 64066.7Z.

#### Survey Summary

**Charts Affected:** 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

[None]

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
j376-AWOIS	AWOIS # 7213	0.00	000.0	Primary

#### Hydrographer Recommendations

[None]

**S-57 Data**

[None]

**Office Notes**

This item was not documented as being resolved. Consider AWOIS #7213 disproved. No feature observed in side scan sonar or multibeam data. Recommend delete AWOIS #7213 from the chart.

**1.4) AWOIS #7317 - MISS SOPHIE****No Primary Survey Feature for this AWOIS Item**

**Search Position:** 30° 09' 44.5" N, 088° 31' 58.4" W  
**Historical Depth:** 10.21 m  
**Search Radius:** 0  
**Search Technique:** S2,DI,MB,SD  
**Technique Notes:** [None]

**History Notes:**

SURVEY REQUIREMENT COMMENTS ■ SEARCH NORTH OF HORN ISLAND PASS LIGHTED WHISTLE BUOY "HI" (LLNR 245/7400) NOT REQUIRED. SEE PSR CHART 11373. ■ HISTORY ■ LNM37/88-- ADD SYMBOL "DANGEROUS WRECK (PA)" IN LAT. 30-09-24.0N, LONG. 88-32-24.0W. 38 FOOT F/V MISS SOPHIE (CGD8 133-88). ■ LNM39/88-- 38 FOOT STEEL HULLED F/V MISS SOPHIE PREVIOUSLY REPORTED SUNK IN THE FAIRWAY ADJACENT HORN ISLAND PASS LIGHTED WHISTLE BUOY "HI" (LLNR 245/7400) IN APPROX. LAT. 30-09-24N, LONG. 88-32-24W. RECENT SEARCH FAILED TO LOCATE WRECK. NO OTHER INFO. IN THIS NOTICE. (ENT 4/28/89, SJV) ■ ■ FE324/89SS--OPR-J433-RU-88/89--DIVER INVESTIGATION REVEALED STEEL HULLED F/V ON ITS SIDE. WRECK IS ABOUT 38 FT LONG, 9 FT WIDE AND RAISES 8 FT OFF BOTTOM. WK IS PARTIALLY BURIED IN SANDY BOTTOM. DIVER DETERMINED LD 33.5 FT BY PNEUMATIC DEPTH GAUGE IN SURROUNDING CHARTED DEPTHS OF 42 TO 46 FT. EVALUATOR RECOMMENDS CHARTING DANGEROUS SUBMERGED WRECK WITH DEPTH OF 33 FT AS SURVEYED. ALSO, PRESENTLY CHARTED SUNKEN WRECK,ED SHOULD BE DELETED FROM ALL AFFECTED CHARTS. (UP 5/7/91 GKM) ■ ■ DESCRIPTION ■ \*\*\*\* TELECON, CGD8 AND N/CG241 (5/10/89); OWNER OF VESSEL IS ■ KNOX Q. NGUYEN, 8135 PANOLA STREET, NEW ORLEANS, LA 70118; ■ PHONE (504) 861-0219. ATTEMPTS TO CONTACT OWNER ■ UNSUCCESSFUL. ■ \*\*\*\* LORAN-C RATES: 7980 - CHAIN; 12453.6W, 29647.2X, 47062.3Y, ■ 64066.4Z.

**Survey Summary**

**Charts Affected:** 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

Item not investigated

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
j376-AWOIS	AWOIS # 7317	0.00	000.0	Primary

## **Hydrographer Recommendations**

retain as charted

### **S-57 Data**

[None]

### **Office Notes**

AWOIS #7317 outside area of coverage. Recommend to retain as charted.

## 1.5) AWOIS #7944 - AWOIS 7944

**Primary Survey Feature is Contact/Point - 0006/1 from h11512 /  
tj\_3102\_klein5000\_sss100 / 2005-252 / 3007**

**Search Position:** 30° 11' 50.2" N, 088° 31' 24.5" W  
**Historical Depth:** [None]  
**Search Radius:** 100  
**Search Technique:** MB,S2,SD,DI  
**Technique Notes:** [None]

### History Notes:

FE324/89SS--OPR-J433-RU-88/89--UNCHARTED CONTACT NOTED TO BE ABANDONED BUOY SINKER WEIGHT FROM OFFICE ANALYSIS OF SONARGRAMS. NO EXACT POSITION COMPUTED OR HEIGHT GIVEN DUE TO POOR QUALITY OF SONAR IMAGE. OBSTR PLOTS PLUS OR MINUS 30 METERS IN LAT. 30-11-49.5N, LONG. 88-31-24.4W. NO FIELD INVESTIGATION. DANGER REPORTED TO 8TH CGD, AMC LETTER DATED 7/31/90.■■ LNM34/90--(8/21/90)--8TH CGD; ADD SYMBOL "SUBMERGED OBSTRUCTION (PA)" IN LAT 30-11-50.2N, LONG 88-31-24.5W. (ENT 5/8/91 GKM).

### Survey Summary

**Survey Position:** 30° 11' 50.6" N, 088° 31' 23.9" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2006-037.09:24:08 (02/06/2006)  
**Survey Line:** h11512 / tj\_3102\_klein5000\_sss100 / 2005-252 / 3007  
**Contact/Point:** 0006/1  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

### Remarks:

A contact was noted in the SSS trace w/in the OBSTN circle - the item, an old buoy block, was not seen in MBES data. A scour was seen in the MBES data and is likely to have caused a return in the SSS trace.

### Feature Correlation

Address	Feature	Range	Azimuth	Status
h11512/tj_3102_klein5000_sss100/2005-252/3007	0006	0.00	000.0	Primary
j376-AWOIS	AWOIS # 7944	19.92	053.7	Secondary
j376-AWOIS	AWOIS # 7946	28.54	110.2	Secondary



## Hydrographer Recommendations

The hydrographer recommends the object be removed from the chart.

### S-57 Data

**Geo object 1:**      Sounding (SOUNDG)

### Office Notes

Do Not Concur. AWOIS #7944 and #7946 occupies the same geographic position as the charted Obstn PA (a submerged obstruction PA. ) Both AWOIS items fall within the common search radius of each other.

Several features were located within the common search area and appears to be abandoned buoy blocks. The associated feature is located between 50 to 100 metetes from AWOIS target. Features least depth is deeper than the controlling tabulated depth for the channel. Refer to DR Appendix 2, Item 1.14. Recommended not to remove AWOIS #7944 and #7946 from database, rather update the database with H11512 results. Recommend to delete Obstn PA from chart at current position.

## 1.6) AWOIS #7945 - AWOIS #7945

### No Primary Survey Feature for this AWOIS Item

**Search Position:** 30° 11' 49.2" N, 088° 31' 27.3" W  
**Historical Depth:** [None]  
**Search Radius:** 100  
**Search Technique:** MB,S2,SD,DI  
**Technique Notes:** [None]

#### History Notes:

FE324/89SS--OPR-J433-RU-88/89--UNCHARTED CONTACT NOTED TO BE AN ABANDONED BUOY SINKER WEIGHT FROM OFFICE ANALYSIS OF SONARGRAMS. NO EXACT POSITION COMPUTED OR HEIGHT GIVEN DUE TO POOR QUALITY OF SONAR IMAGE. OBSTR PLOTS PLUS- OR MINUS- 30 METERS IN LAT 30-11-48.5N, LONG 88-31-27.2W. NO FIELD INVESTIGATION. DANGER REPORTED TO 8TH CGD; AMC LETTER, DATED 7/31/90. ■ ■ LNM 34/90 (8/21/90)--8TH CGD; ADD SYMBOL "SUBMERGED OBSTRUCTION (PA)" IN LAT 30-11-49.2N, LONG 88-31-27.3W. (ENT 5/8/91 GKM)

### Survey Summary

**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

#### Remarks:

The radius was covered with 100% SSS and 100% MBES. The object, an old buoy block, was not seen in SSS trace or MBES data

### Feature Correlation

Address	Feature	Range	Azimuth	Status
j376-AWOIS	AWOIS # 7945	0.00	000.0	Primary

### Hydrographer Recommendations

The hydrographer recommends the obstn be removed form the chart. Chart depth per digital data - remove AWOIS 7945 from the database.

### S-57 Data

**Geo object 1:** Sounding (SOUNDG)

## Office Notes

Concur with clarification. AWOIS #7945 (a submerged obstruction PA) falls within the common search radius of AWOIS #7946 and AWOIS #7944 as dangerous Obstns PA. Several features were located and appears to be abandoned buoy blocks. The associated feature is located approximately 102m from AWOIS target. Feature's least depth is deeper than the controlling tabulated depth for the channel. Refer to DR Appendix 2, Item 1.4. Recommended not to remove AWOIS #7945 from database, rather update the database with H11512 results. Recommend to delete Obstn PA from chart at current position. Add 42-ft Obstn located in 30°11'46.306"N. 088°31'26.55"W.

Recommend to defer final charting disposition to MCD, post NDB reference of source USACE channel and possible dredge surveys. Feature remains within the AHB H11512 H-Cell.

**1.7) AWOIS #7946 - AWOIS #7946**

**Primary Survey Feature is Contact/Point - 0006/1 from h11512 /  
tj\_3102\_klein5000\_sss100 / 2005-252 / 3007**

**Search Position:** 30° 11' 50.9" N, 088° 31' 24.9" W  
**Historical Depth:** [None]  
**Search Radius:** 100  
**Search Technique:** MB,S2,SD,DI  
**Technique Notes:** [None]

**History Notes:**

FE324/89SS--OPR-J433-RU-88/89--UNCHARTED CONTACT NOTED TO BE ABANDONED BUOY SINKER WEIGHT FROM OFFICE ANALYSIS OF SONARGRAMS. NO EXACT POSITION COMPUTED OR HEIGHT GIVEN DUE TO POOR QUALITY OF SONAR IMAGE. OBSTR PLOTS PLUS- OR MINUS- 30 METERS IN LAT 30-11-50.2N, LONG 88-31-24.8W. NO FIELD INVESTIGATION. DANGER REPORTED TO 8TH CGD; AMC LETTER, DATED 7/31/90. ■ ■ LNM34/90 (8/21/90)--8TH CGD; ADD SYMBOL "SUBMERGED OBSTRUCTION (PA)" IN LAT 30-11-50.9N, LONG 88-31-24.9W. (ENT 5/8/91 GKM)

**Survey Summary**

**Survey Position:** 30° 11' 50.6" N, 088° 31' 23.9" W  
**Least Depth:** [None]  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh) [None] ; TVU (TPEv) [None]  
**Timestamp:** 2006-037.09:24:08 (02/06/2006)  
**Survey Line:** h11512 / tj\_3102\_klein5000\_sss100 / 2005-252 / 3007  
**Contact/Point:** 0006/1  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

A contact was noted in the SSS trace w/in the OBSTN circle - the item, an old buoy block, was not seen in MBES data. A scour was seen in the MBES data and is likely to have caused a return in the SSS trace.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3102_klein5000_sss100/2005-252/3007	0006	0.00	000.0	Primary
j376-AWOIS	AWOIS # 7944	19.92	053.7	Secondary
j376-AWOIS	AWOIS # 7946	28.54	110.2	Secondary

## Hydrographer Recommendations

The hydrographer recommends the object be removed from the chart.

### S-57 Data

**Geo object 1:**      Sounding (SOUNDG)

### Office Notes

Do Not Concur. AWOIS #7944 and #7946 occupies the same geographic position as the charted Obstn PA (a submerged obstruction PA. ) Both AWOIS items fall within the common search radius of each other.

Several features were located within the common search area and appears to be abandoned buoy blocks. The associated feature is located between 50 to 100 metetes from AWOIS target. Features least depth is deeper than the controlling tabulated depth for the channel. Refer to DR Appendix 2, Item 1.14. Recommended not to remove AWOIS #7944 and #7946 from database, rather update the database with H11512 results. Recommend to delete Obstn PA from chart at current position.

**1.8) AWOIS #12592 - MISS KIM WAN \_ Retain as charted.****No Primary Survey Feature for this AWOIS Item**

**Search Position:** 30° 11' 60.0" N, 088° 31' 60.0" W  
**Historical Depth:** [None]  
**Search Radius:** 0  
**Search Technique:** MB,S2,SD,DI  
**Technique Notes:** SEARCH NOT REQUIRED WITHIN SPOIL AREA

**History Notes:**

LNM 22/03--6/3/03; THE 55-FOOT FISHING VESSEL MISS KIM WAN, HAS REPORTEDLY SUNK IN THE GULF OF MEXICO, NEAR HORN ISLAND PASS IN APPROXIMATE POSITION 30°12'N 88°32'W. RECENT SEARCHES HAVE FAILED TO LOCATE THE WRECK. MARINERS ARE URGED TO USE EXTREME CAUTION IN THE AREA.

**Survey Summary**

**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

item not investigated

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
j376-AWOIS	AWOIS # 12592	0.00	000.0	Primary

**Hydrographer Recommendations**

[None]

**S-57 Data**

[None]

**Office Notes**

Item not investigated. Retain as charted.

**1.9) AWOIS #12593 - AWOIS #12593****No Primary Survey Feature for this AWOIS Item**

**Search Position:** 30° 13' 05.6" N, 088° 30' 03.5" W  
**Historical Depth:** [None]  
**Search Radius:** 0  
**Search Technique:** MB,S2,SD,DI,VS  
**Technique Notes:** [None]

**History Notes:**

NO SOURCE FOUND. ITEM IS CHARTED AS A "PILE PA". PILE IS PROBABLY REMNANT OF STRUCTURE THAT ONCE HELD A LIGHT THAT HAS BEEN RELOCATED VERY NEAR BY.

**Survey Summary**

**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

Item not investigated

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
j376-AWOIS	AWOIS # 12593	0.00	000.0	Primary

**Hydrographer Recommendations**

[None]

**S-57 Data**

[None]

**Office Notes**

Retain charted. Feature not surveyed.

**1.10) AWOIS #12609 - AWOIS 12609 OBSTRUCTION****No Primary Survey Feature for this AWOIS Item**

**Search Position:** 30° 12' 49.3" N, 088° 29' 57.0" W  
**Historical Depth:** [None]  
**Search Radius:** 200  
**Search Technique:** MB,S2,SD,DI,VS  
**Technique Notes:** [None]

**History Notes:**

L-1523/84--POWER SQUADRON REPORT OF A TRIANGLE SHAPED STEEL OBSTRUCTION 175 FEET N,NW OF THE WEST END PETIT BOIS ISLAND. 1 FOOT BELOW SURFACE IN 4FT TO 6FT WATER. POWER SQUADRON MEMBER OBTAINED GP USING BEARING AND DISTANCE.

**Survey Summary**

**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

item not investigated

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
j376-AWOIS	AWOIS # 12609	0.00	000.0	Primary

**Hydrographer Recommendations**

[None]

**S-57 Data**

[None]

**Office Notes**

AWOSI 12609 outside area of coverage. Retain as charted.



**1.11) AWOIS #12610 - Move OBSTN - AWOIS 12610****No Primary Survey Feature for this AWOIS Item**

**Search Position:** 30° 12' 43.0" N, 088° 30' 33.9" W  
**Historical Depth:** [None]  
**Search Radius:** 150  
**Search Technique:** MB,S2,SD,DI,VS  
**Technique Notes:** [None]

**History Notes:**

LNK 06/86--"A 8500 POUND CONCRETE SINKER AND 60FT OF 1.25 INCH CHAIN IS REPORTED SUNK IN THE VICINITY OF HORN ISLAND PA LIGHTED BUOY 10 (LLNR 2551), IN APPROXIMATE POSITION 30-12-42.3N, 88-30-33.5W."

**Survey Summary**

**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

[None]

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
j376-AWOIS	AWOIS # 12610	0.00	000.0	Primary

**Hydrographer Recommendations**

[None]

**S-57 Data**

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** WATLEV - 3:always under water/submerged

**Office Notes**

AWOIS 12610 is described as buoy sinker. Field unit located one buoy block in the immediate vicinity of Lt buoy R16. The existing sinker is associated with the navigational aid. Recommend delete charted Obstrn PA at the charted

position. Recommend update AWOIS database for #12610.

**1.12) AWOIS #12611 - OBSTRUCTION**

**Primary Survey Feature is Profile/Beam - 7328/180 from h11512 /  
tj\_3101\_reson8125 / 2005-261 / 025\_1539**

**Search Position:** 30° 11' 34.2" N, 088° 31' 17.6" W

**Historical Depth:** [None]

**Search Radius:** 60

**Search Technique:** MB,S2,SD,DI,VS

**Technique Notes:** [None]

**History Notes:**

FE-315SS--THIS OBSTRUCTION WAS NOTED ON THE SONOGRAMS DURING OFFICE PROCESSING OF THE FIELD DATA FROM FE-315SS. THE RECOMMENDATION WAS TO HAVE A FUTURE FIELD PARTY INVESTIGATE WHEN APPROPRIATE.

**Survey Summary**

**Survey Position:** 30° 11' 34.3" N, 088° 31' 17.4" W

**Least Depth:** 6.17 m (= 20.26 ft = 3.376 fm = 3 fm 2.26 ft)

**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 0.980$  m ; TVU (TPEv)  $\pm 0.405$  m

**Timestamp:** 2005-261.15:45:09.926 (09/18/2005)

**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-261 / 025\_1539

**Profile/Beam:** 7328/180

**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

The search radius was covered with 100% SSS and 100% MBES. No OBSTN noted in SSS trace or MBES data within AWOIS radius. The actual bottom depth is shallower than that of charted Obstn.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-261/025_1539	7328/180	0.00	000.0	Primary
ChartGPs - ENC US5MS22M	Danger 8	7.78	062.1	Secondary (grouped)
j376-AWOIS	AWOIS # 12611	7.85	062.3	Secondary (grouped)

## Hydrographer Recommendations

The hydrographer recommends the Obstrn be removed from the chart. Chart depth per digital data - remove Awois 12611 from database

### S-57 Data

[None]

### Office Notes

Concur with clarification. Delete the charted dangerous Obstrn (23 ft rep)w/danger curve. Update AWOIS database for Item #12611 with H11512 results.

### 1.13) AWOIS #12612 - AWOIS #12612 OBSTRUCTION

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

**Search Position:** 30° 11' 34.1" N, 088° 31' 15.5" W  
**Historical Depth:** [None]  
**Search Radius:** 60  
**Search Technique:** MB,S2,SD,DI,VS  
**Technique Notes:** [None]

**History Notes:**

FE-315SS--THIS OBSTRUCTION WAS NOTED ON THE SONOGRAMS DURING OFFICE PROCESSING OF THE FIELD DATA FROM FE-315SS. THE RECOMMENDATION WAS TO HAVE A FUTURE FIELD PARTY INVESTIGATE WHEN APPROPRIATE.

#### Survey Summary

**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

The search radius was covered with 100% SSS and 100% MBES. No OBSTN noted in SSS trace or MBES data in AWOIS radius. The actual bottom depth is shallower than that of charted Obstn

#### Feature Correlation

Address	Feature	Range	Azimuth	Status
j376-AWOIS	AWOIS # 12612	0.00	000.0	Primary

#### Hydrographer Recommendations

The hydrographer recommends the obstn be removed form the chart. Chart depth per digital data - remove Awois 12612 from database

#### S-57 Data

**Geo object 1:** Obstruction (OBSTRN)  
**Attributes:** WATLEV - 3:always under water/submerged

## Office Notes

Concur. Deleted charted Obstd (21-ft rep) from the chart. Update AWOIS database with H11512 results.

**1.14) AWOIS #12613 - AWOIS 12613****Primary Survey Feature is Profile/Beam - 1085/101 from h11512 / tj\_3102\_reson8101 / 2005-262 / 043\_1259**

**Search Position:** 30° 11' 23.5" N, 088° 32' 45.1" W  
**Historical Depth:** 9.14 m  
**Search Radius:** 400  
**Search Technique:** MB,S2,SD,DI,VS  
**Technique Notes:** [None]

**History Notes:**

L-1136/62--LETTER IS OF A LNM DATED 17 OCTOBER 1962 FROM THE 8TH CGD. "A MUD LUMP WITH A LEAST DEPTH OF 30FT OVER IT WAS REPORTED APPROXIMATELY 1665 YARDS 272° FROM HORN ISLAND PASS LIGHTED BELL BUOY 1 (LL6422)."

**Survey Summary**

**Survey Position:** 30° 11' 24.9" N, 088° 32' 39.2" W  
**Least Depth:** 8.70 m (= 28.54 ft = 4.757 fm = 4 fm 4.54 ft)  
**TPU ( $\pm 1.96\sigma$ ):** THU (TPEh)  $\pm 0.982$  m ; TVU (TPEv)  $\pm 0.411$  m  
**Timestamp:** 2005-262.13:01:39.507 (09/19/2005)  
**Survey Line:** h11512 / tj\_3102\_reson8101 / 2005-262 / 043\_1259  
**Profile/Beam:** 1085/101  
**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

No item matching that of AWOIS item 12613 (a "mud lump") was seen in the SSS trace or the MBES data. However, an object appx 8m long was noted in both the SSS trace and MBES data. The object was within AWOIS 12613 search radius.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3102_reson8101/2005-262/043_1259	1085/101	0.00	000.0	Primary
h11512/tj_3102_klein5000_sss100/2005-254/2055	0001	1.34	022.0	Secondary (grouped)
j376-AWOIS	AWOIS # 12613	165.34	074.9	Secondary

## Hydrographer Recommendations

The hydrographer recommends that AWOIS 12613 be removed from the database, and an Obstrn be added to the Chart - position and depth per digital data.

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

28ft (11375\_1, 11374\_1, 11373\_1)

4 ¾fm (1115A\_1, 11360\_1, 11006\_1, 411\_1)

4fm 4ft (11366\_1)

## S-57 Data

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

**Attributes:** QUASOU - 1:depth known

STATUS - 1:permanent

TECSOU - 3:found by multi-beam

VALSOU - 8.700 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

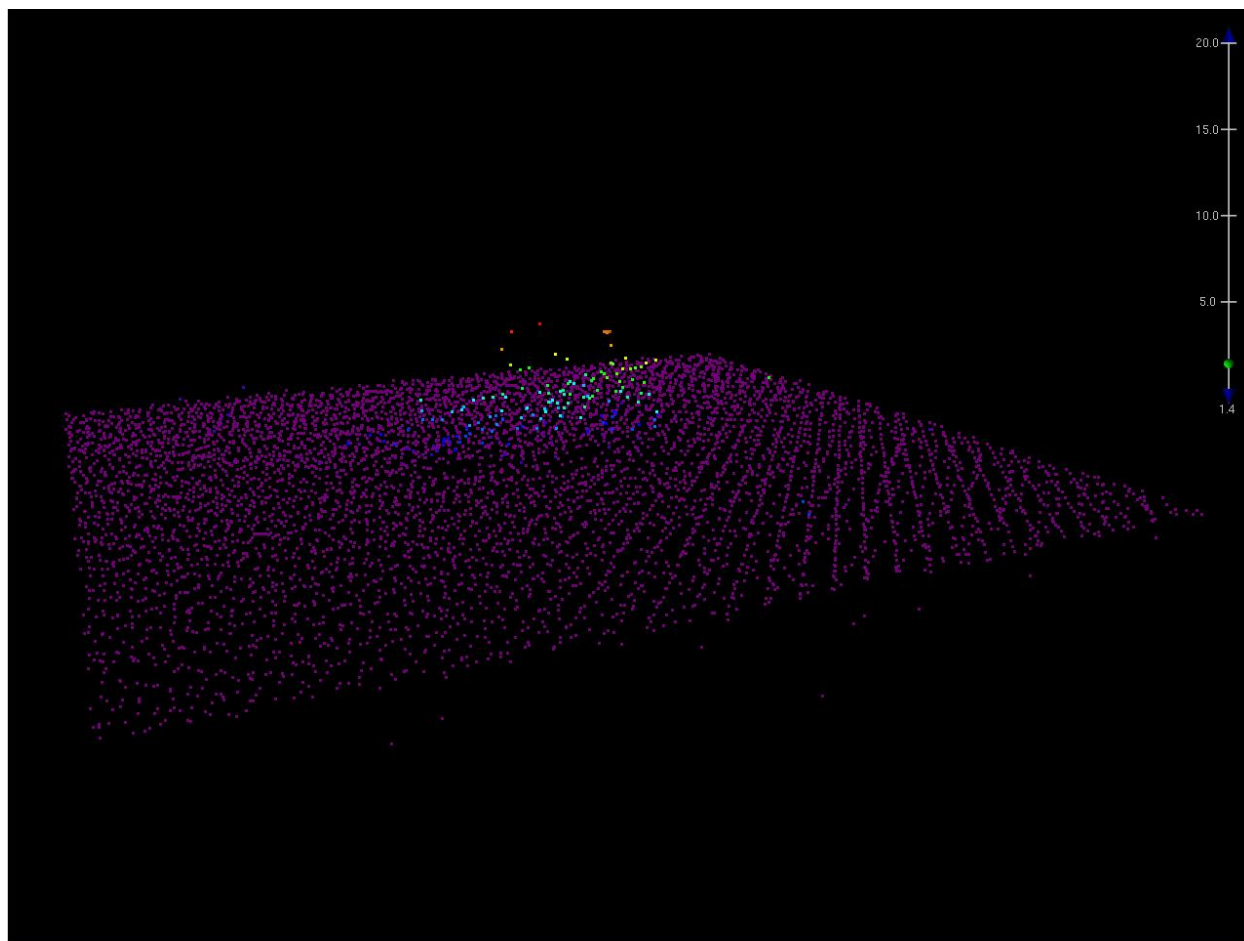
**Geo object 2:** Sounding (SOUNDG)

## Office Notes

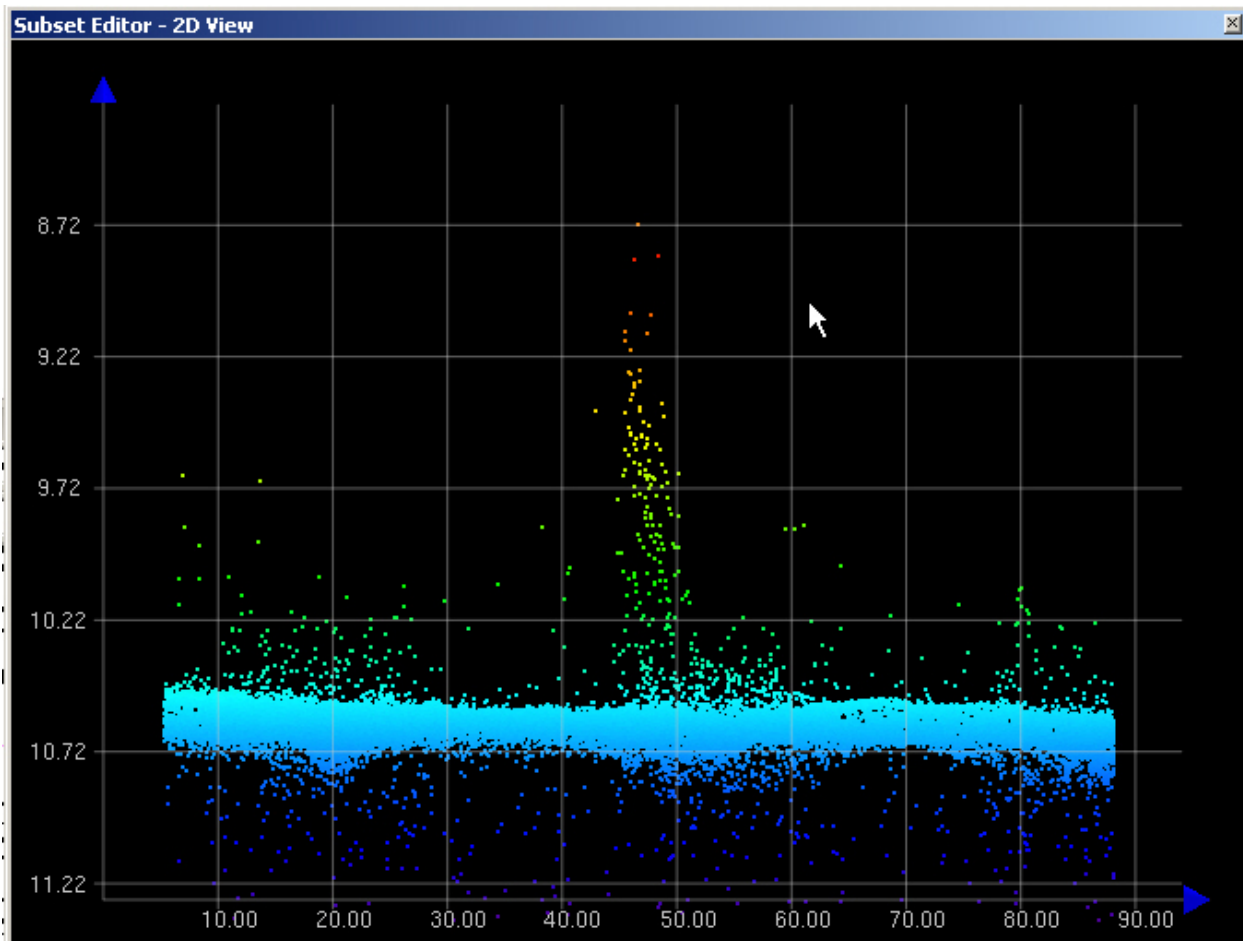
Concur with clarification. Do not remove the AWOIS item #12613 from the database, rather update the AWOIS item with findings from H11512. The common area of the charted 30-ft shoal contains numerous 34-ft soundings from H11512. Recommend to delete 30 ft. shoal Rep (1962) from the chart. Recommend to append chart with a 28-ft (28.54-ft(8.700m)) Obstrn at the surveyed location in Latitude 30°11'24.922"N, 088°32'39.169"W. Reference Appendix 2, Item 1.7.



## Feature Images



*Figure 1.14.1*

*Figure 1.14.2*

**1.15) AWOIS #12614 - AWOIS 12614****No Primary Survey Feature for this AWOIS Item****Search Position:** 30° 11' 24.5" N, 088° 31' 51.5" W**Historical Depth:** 8.84 m**Search Radius:** 0**Search Technique:** MB,S2,SD,DI,VS**Technique Notes:** [None]**History Notes:**

LNМ 33/89--"ADD SYMBOL SUBMERGED OBSTRUCTION AND LEGEND (29FT)." THE NOAA SHIP RUDE WAS THE SOURCE OF THIS LNM.

**Survey Summary****Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1**Remarks:**

[None]

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
j376-AWOIS	AWOIS # 12614	0.00	000.0	Primary

**Hydrographer Recommendations**

[None]

**S-57 Data****Geo object 1:** Obstruction (OBSTRN)**Attributes:** TECSOU - 13:swept by side-scan sonar

VALSOU - 8.8392 m

## Office Notes

Considered disproved. Delete Obstns (21ft rep).

**1.16) AWOIS #12615 - #12615 BSTRUCTION PA**

**Primary Survey Feature is Profile/Beam - 1865/221 from h11512 /  
tj\_3101\_reson8125 / 2005-257 / 460\_2122**

**Search Position:** 30° 10' 00.7" N, 088° 32' 40.1" W

**Historical Depth:** [None]

**Search Radius:** 200

**Search Technique:** MB,S2,SD,DI,VS

**Technique Notes:** [None]

**History Notes:**

LNM 29/90--"ADD SYMBOL SUBMERGED OBSTRUCTION (PA)" THIS ITEM IS LINKED WITH ITEM NUMBER 12616.

**Survey Summary**

**Survey Position:** 30° 10' 01.0" N, 088° 32' 39.9" W

**Least Depth:** 12.65 m (= 41.50 ft = 6.916 fm = 6 fm 5.50 ft)

**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.980$  m ; **TVU (TPEv)**  $\pm 0.406$  m

**Timestamp:** 2005-257.21:24:44.749 (09/14/2005)

**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-257 / 460\_2122

**Profile/Beam:** 1865/221

**Charts Affected:** 11375\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

The search radius was covered with 100% SSS and 100% MBES - Nothing noted in SSS trace or MBES data

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-257/460_2122	1865/221	0.00	000.0	Primary
ChartGPs - ENC US5MS22M	Danger 1	9.44	055.7	Secondary (grouped)
j376-AWOIS	AWOIS # 12615	9.76	031.7	Secondary (grouped)

## Hydrographer Recommendations

The hydrographer recommends the obstn be removed form the chart. Chart depth per digital data - remove AWOIS 12615 from database.

### S-57 Data

**Geo object 1:**      Sounding (SOUNDG)

### Office Notes

Concur with clarification. Do not delete AWOIS #12615 from the AWOIS database, rather update the AWOIS database with H11512 results. Recommend to delete the charted dangerous Obstns PA (AWOIS #12615) from the chart.

**1.17) AWOIS #12616 - 12616 OBSTRUCTION PA**

**Primary Survey Feature is Profile/Beam - 1983/160 from h11512 /  
tj\_3101\_reson8125 / 2005-260 / 001\_1310**

**Search Position:** 30° 10' 12.7" N, 088° 32' 48.1" W

**Historical Depth:** [None]

**Search Radius:** 200

**Search Technique:** MB,S2,SD,DI,VS

**Technique Notes:** [None]

**History Notes:**

LNM 29/90--"ADD SYMBOL SUBMERGED OBSTRUCTION (PA)" THIS ITEM IS LINKED WITH ITEM NUMBER 12615.

**Survey Summary**

**Survey Position:** 30° 10' 12.3" N, 088° 32' 48.1" W

**Least Depth:** 12.45 m (= 40.84 ft = 6.806 fm = 6 fm 4.84 ft)

**TPU ( $\pm 1.96\sigma$ ):** **THU (TPEh)**  $\pm 0.980$  m ; **TVU (TPEv)**  $\pm 0.405$  m

**Timestamp:** 2005-260.13:13:28.969 (09/17/2005)

**Survey Line:** h11512 / tj\_3101\_reson8125 / 2005-260 / 001\_1310

**Profile/Beam:** 1983/160

**Charts Affected:** 11375\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

The search radius was covered with 100% SSS and 100% MBES. No Obstrn was noted in SSS trace or MBES data.

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
h11512/tj_3101_reson8125/2005-260/001_1310	1983/160	0.00	000.0	Primary
ChartGPs - ENC US5MS22M	Danger 5	4.05	118.6	Secondary (grouped)
j376-AWOIS	AWOIS # 12616	13.10	181.0	Secondary

## Hydrographer Recommendations

The hydrographer recommends the obstn be removed form the chart. Chart depth per digital data - remove AWOIS 12616 from database.

### S-57 Data

[None]

### Office Notes

Concur with clarification. Do not delete AWOIS #12616 from the AWOIS database, rather update the AWOIS database with H11512 results. Recommend to delete the charted dangerous Obstns PA (AWOIS #12616) from the chart.



**1.18) AWOIS #12608 - AWOIS 12608 UNKNOWN****No Primary Survey Feature for this AWOIS Item**

**Search Position:** 30° 13' 56.9" N, 088° 30' 28.8" W  
**Historical Depth:** [None]  
**Search Radius:** 0  
**Search Technique:** MB,S2,SD,DI  
**Technique Notes:** [None]

**History Notes:**

SOURCE UNKNOWN-- ITEM APPEARS ON STANDARD BETWEEN 1970 AND 1973. NO OTHER INFORMATION COULD BE FOUND. THE AMOUNT OF TIME SPENT TO FURTHER DETERMINE SOURCE WOULD NOT PROVE TO BE BENEFICIAL.

**Survey Summary**

**Charts Affected:** 11375\_1, 11374\_1, 11373\_1, 11366\_1, 1115A\_1, 11360\_1, 11006\_1, 411\_1

**Remarks:**

item not investigated

**Feature Correlation**

Address	Feature	Range	Azimuth	Status
j376-AWOIS	AWOIS # 12608	0.00	000.0	Primary

**Hydrographer Recommendations**

[None]

**S-57 Data**

[None]

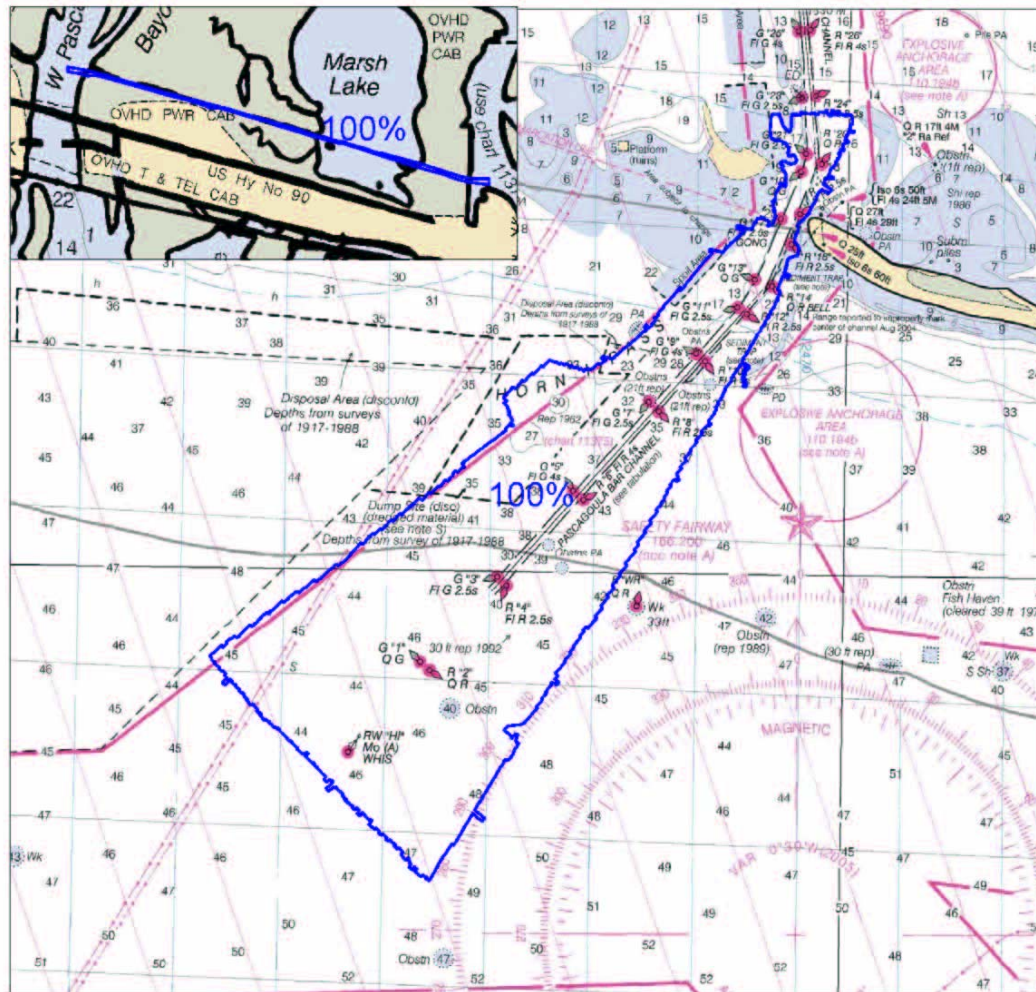
**Office Notes**

AWOIS Item 12608 considered not disproved. Recommend to retain as charted.

### APPENDIX III

#### PROGRESS

#### SKETCH



Project	Sheet_Letter	H_num	HQ_Est_SNM	CumIPercCompPrev	CumIPercCompCur	SNM_CompCurA	CumSNMcom
J376	A	H11512	8	0	100	8	8
J376		F00516	0	0	100	0	0

Project	Month	LNH_Hydr	LNH_MB	SV_Casts	Bottom_Samp	AWOIS_Items	DAS	DTime equip_H	DTime_Weather_t
J376	Sep	134.00	787.00	100.00	0.00	10.00	19.00	76.00	0.00

**Progress Sketch OPR-J376-TJ-05**  
**September, 2005**

**APPENDIX IV**  
**TIDES AND WATER LEVELS**

September 27, 2005

MEMORANDUM FOR: Chief, Requirements and Development Division, N/OPS1

FROM: CAPT Emily B. Christman, THOMAS JEFFERSON

SUBJECT: Request for Approved Tides/Water Levels

Please provide the following data:

1. Tide Note
2. Final zoning in MapInfo and .MIX format
3. Six Minute Water Level data (Co-ops web site)

Transmit data to:

NOAA/NOS/Atlantic Hydrographic Branch  
N/CS33, Building #2  
439 West York Street  
Norfolk, VA 23510  
ATTN: Chief AHB

These data are required for the processing of the following hydrographic survey:

Project No.: OPR-J376-TJ-05

Registry No.: H11512

State: MS

Locality: Gulf of Mexico

Sublocality: Horn Island Pass and Approaches

Attachments containing:

- 1) an Abstract of Times of Hydrography,
- 2) digital MID MIF files of the track lines from pydro on CD/diskette

cc: N/CS33

---

Year_DOY	Min Time	Max Time
2005_253	15:20:45	23:17:46
2005_254	12:48:19	22:52:54
2005_255	12:19:19	23:08:01
2005_256	13:38:22	22:58:01
2005_257	12:28:47	23:05:22
2005_258	12:26:37	23:11:14
2005_259	12:32:02	23:12:42
2005_260	12:38:48	22:53:07
2005_261	12:22:57	22:59:57
2005_262	12:10:50	23:05:31
2005_263	12:03:55	23:19:25



DATE : November 15, 2005

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

**Note 2:** Use tide data from the appropriate station with applicable zoning correctors for each zone according to the order in which they are listed in the Tidezone corrector file (\*.ZDF). For example, tide station one (TS1) would be the first choice for an applicable zone followed by TS2, etc. when data are not available.

**Note 3:** Closing levels for Dauphin Island were not completed due to hurricane events. A datum check was performed to establish Dauphin Island's stability. This station was deemed stable during the times of hydrography.

CHIEF, PRODUCTS AND SERVICES DIVISION





874-1533 PASCAGOULA NOAA LAB

Final Tidal Zoning  
for OPR-J376-TJ-2005, Sheet H11512  
Horn Island Pass and Approaches, MS

CGM351  
Time Corrector 0 mins.  
Range Corrector x1.03  
Reference 874-1533

CGM351A  
Time Corrector 0 mins.  
Range Corrector x1.07  
Reference 874-1533

CGM352  
Time Corrector -12 mins.  
Range Corrector x1.00  
Reference 874-1533

FI 10s 125ft 24M  
FR  
(F R Obsn Lt)

Mo (A)  
FI HORN  
RACON (--) (use chart 1137)

Obstns  
10  
Obstn  
11  
Obstns  
10  
11  
9  
11

5 Y  
4s  
Obstn  
17 (Rep cov 11 fms)  
PA  
Y  
FI (4) Y 20s  
(three buoys)  
15

## **APPENDIX V**

### **SUPPLEMENTAL SURVEY RECORDS AND CORRESPONDENCES**

#### **V.1. COAST PILOT REPORT, NOAA FORM 77-6**

No corrections or additions required.

#### **V.2. BOTTOM SAMPLE, NOAA FORM 75-44**

No bottom samples were taken.

#### **V.3. AIDS TO NAVIGATION, NOAA FORM 76-40**

No AToNs were off station by over 50 meters

***Concur.***



**ATLANTIC HYDROGRAPHIC BRANCH  
EVALUATION REPORT to Accompany  
Survey H11512 (2005)**

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

**B. DATA ACQUISITION AND PROCESSING**

**B.1 EQUIPMENT**

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

HSTP PYDRO version 7.3 r2239  
CARIS HIPS/SIPS version 6.1 SP1 HF 1-6  
CARIS Bathy Manager version 2.1 HF 1-3  
DKART INSPECTOR, version 5.0 Build 732 SP1  
CARIS HOM version 3.3  
CARIS S57 Composer version 1.0

**B.2. QUALITY CONTROL**

Following the Field Procedures Manual and the NOS Hydrographic Surveys Specifications and Deliverables Manual, June 2003 has insured the integrity of the survey data for H11512.

Daily confidence checks were made by observing the outer ranges of the side scan sonar images. A good check consisted of distinguishing contacts or sand waves across the entire range of the side scan trace. No unusual problems were encountered.

No other information was given on Quality Control other than what is listed above. Should have had more information elaborated on this subject. Lead line calibrated with steel tape for launches also static draft of launches and the settlement and squat for launches this section was poorly written and improvement is need.

**B.2.1. H-Cell**

The AHB source depth grid for the survey's nautical chart update product entailed the field's original 5m grids, combined at 5 meter resolution, then using them to create a product surface grid with a resolution of 5m. The survey scale selected soundings were extracted from the 5m product surface. The selected sounding set is approximately 10 to 20 times the number of charted depths. The chart scale selected soundings are a subset of the survey scale selected soundings. The surface model was referenced when selecting the chart scale soundings, to ensure that the selected soundings portrayed the bathymetry within the common area.

The pre-compilation products or components SAHOB files included depth curves (DEPCNT), sounding selections (SOUNDG), features (SBDARE), Meta objects (M\_COVR, M\_QUAL, M\_NSYS), and cartographic Blue Notes. The individual SAHOB

files were inserted into one BASE Manager feature layer and exported to S57 format in order to create the H-Cell deliverable.

The completed H-Cell was exported as a Base Cell File (ENC.000) in S-57 format with all values in metric units. The metric equivalent ENC.000 file was then converted to NOAA chart units (ENC\_CU.000) with all values measured in feet following NOAA sounding rounding rules.

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

**The H11512 CARIS H-Cell final deliverables include the following products:**

US511512_CS.000	1: <u>20</u> ,000 Scale	H11512 H-Cell with Chart Scale Selected Soundings, charted features, and Meta objects
US511512_SS.000	1: <u>10</u> ,000 Scale	H11512 Selected Soundings
US511512_BlueNtoes.000	1: <u>20</u> ,000 Scale	H11512 Cartographic Notes

**B.2.2. Junctions**

No contemporary surveys exist for junctioning.  
Present survey depths are in harmony with the charted hydrography.

**C. VERTICAL AND HORIZONTAL CONTROL**

Horizontal control used for this survey during data acquisition is based upon the North American Datum of 1983 (NAD83), UTM projection zone 16. Office ENC processing of this survey required translating the datum to meet S-57 ENC requirements.

**D. RESULTS AND RECOMMENDATIONS**

Listed below are all charts and ENC products compared to the present survey and those used in compiling the H-cell are also listed as shown below.

**D.1 CHART COMPARISON**

11373 (45th Edition, Feb./06)  
Corrected through NM 02/04/2006  
Corrected through LNM 01/24/2006  
Scale 1:80,000

11375 (36th Edition, Jan./05)  
Corrected through NM 01/08/2005  
Corrected through LNM 01/04/2005  
Scale 1:20,000

**ENC Comparison**

US4MS12M  
Mississippi Sound AND Approaches  
Edition 10  
Update Application Date 2007-11-01  
Issue Date 2008-07-21

References: Chart 11373

**US5MS22M**

Pascagoula Harbor Mississippi

Edition 15

Update Application Date 2008-04-15

Issue Date 2008-07-24

References: Chart 11375

**D.1.1 Hydrography**

The charted hydrography originates with prior surveys and requires no further consideration. The hydrographer makes adequate chart comparisons in section "D" and Appendix 1&2 of the Descriptive Report. The following exceptions are noted:

1. The field unit was not directed to obtain bottom samples in the Letter Instructions, therefore all charted sea bed characteristic (SBDARE) objects were retained as charted. The spatial and feature attributes of the SBDARE point features were carried forward from the ENC's (US4MS12M, US5MS22M).
2. The dangerous shoal of 38ft charted in Latitude 30° 12' 51.4" N, Longitude 088° 30' 34.8"W is in Horn Island Pass Channel. Recommend reference source information from US Army Corps of Engineers to see if dredging been done on Horn Island Pass Channel. Defer final charting disposition to MCD Update Services Branch.

**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**  
**H11512**

**Initial Approvals:**

The completed survey has been inspected with regard to survey coverage, delineation of depth curves, disposition 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.

---

**Reginald L Keene Sr.**  
Cartographer  
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**  
Lieutenant Commander, NOAA  
Chief, Atlantic Hydrographic Branch