H12244

NOAA FORM 76-35A
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

DESCRIPTIVE REPORT

Type of Survey: Hydrographic Multibeam & 200% Sidescan

Project No. : OPR-K354-KR10

Registry No. : H12244

LOCALITY

State: Louisiana

General Locality: Gulf of Mexico

Sublocality: 5 NM SE of Racoon Point

2010

CHIEFS OF PARTY
Scott Croft, John Baker

LIBRARY & ARCHIVES

DATE:

NOAA FORM 77-28 (11-72)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	REGISTRY No: H12244
	HYDROGRAPHIC TITLE SHEET	
		FIELD NUMBER: Sheet 2

State: Louisiana

General Locality: Gulf of Mexico

Locality: 5 NM SE of Racoon Point

Scale: 1:10,000 Date of Survey: June 2010 to August 2010

Instructions Dated: May 2010 Project Number: OPR-K354-KR-10

Vessels: *M/V Inez McCall*

Chiefs of Party: Scott Croft, John Baker

Surveyed by: C&C Technologies Personnel

Soundings taken by echosounder, hand lead line, or pole: Simrad EM3002 Multibeam Echo sounder

Verification by: ~~C&C Technologies Personnel~~ ***Atlantic Hydrographic Branch Personnel***

Soundings in: Feet: X Fathoms: _____ Meters: _____ at MLW: _____ MLLW: X

Remarks: Hydrographic Survey of Sheet 2 (H12244)
Data collection in meters, referenced to MLLW, later converted into feet
200% side scan sonar, with concurrent multibeam coverage
UTC time was used exclusively ***Zone 15N***
Grab samples were not taken
Tidal Zones: CGM 716, 717, 718, 732, 733, WGM 266, 414, 415, 416
Tidal Station: 8762075 (Port Fourchon, LA)

NOAA FORM 77-28 SUPERSEDES FORM C & GS - 537

Data acquired in meters, HCell compiled in Feet at MLLW.

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

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*SEPARATES

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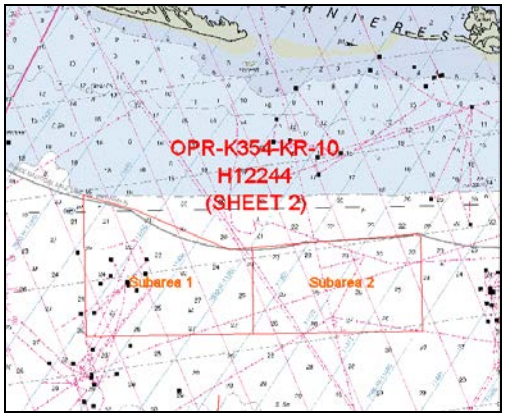
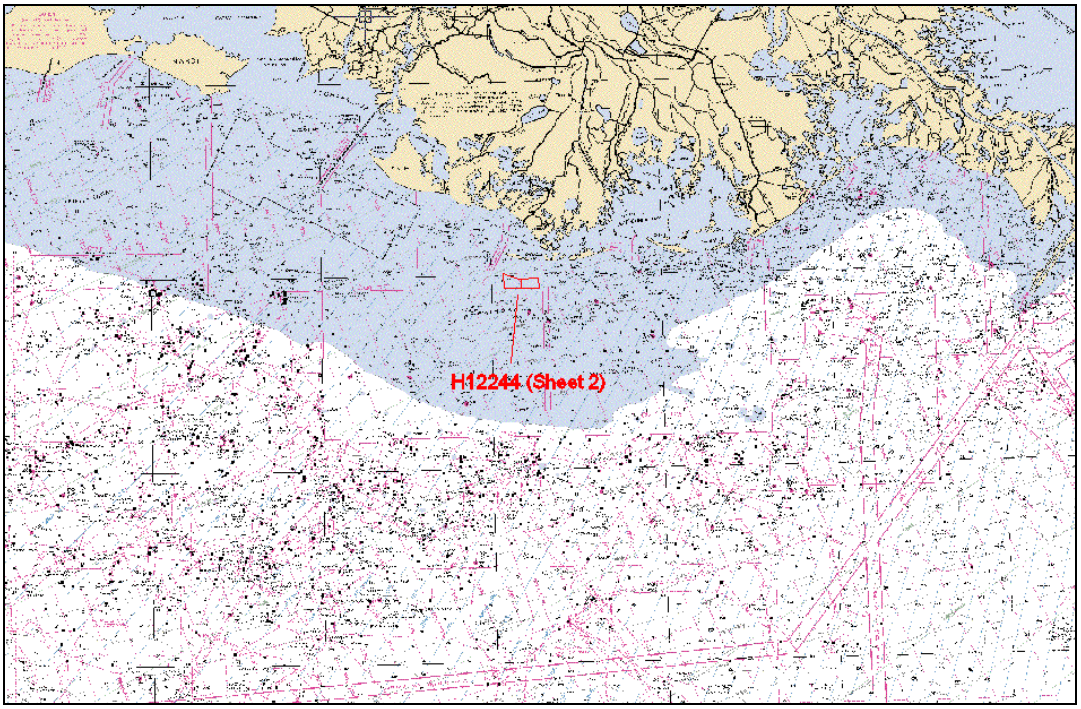
Separates II	Sound Speed Data
Separates III	Hydrographic Survey Project Instructions and Statement of Work
Separates IV	Crossline Comparisons
Separates V	Side Scan Contact Listing and Images of Significant Contacts

Data filed with original field records.

A. AREA SURVEYED

The survey area is located 5 NM SE of Raccoon Point in the Gulf of Mexico. The following sketch shows the layout of Sheet 2 (H12244) of Project OPR-K354-KR-10. Water depths in the survey area range from 21 feet to 29 feet Mean Lower Low Water (MLLW). ***Concur.***





	Inez McCall	Total
LNM Side Scan + Multibeam	224.60	224.60
LNM Crosslines	12.24	12.24
LNM Investigations	1.46	1.46

Number of items investigated	2
Total square nautical miles	9.71

ACQUISITION DATES

June 22, 24, 25 2010
July 12, 31 2010
August 1 2010

B. DATA ACQUISITION AND PROCESSING

B.1 EQUIPMENT

System	Manufacturer	Model
Multibeam Echo Sounder	Simrad	EM3002
Side Scan Sonar	Klein	5000
Single Beam Echo Sounder	ODOM	Echotrac DF3200 MK II
Motion Sensor	Applanix	POS MV
Primary Positioning System	CNAV	2050
Secondary Positioning System	CNAV	2050
Tertiary Positioning System	Applanix	POS MV
Sound Speed at Transducer	YSI Electronics	600R
Primary CTD	Seabird	SBE19 Plus
Secondary CTD	Seabird	SBE19

See ***Data Acquisition and Processing Report for a detailed description of the equipment used for hydrographic operations. ***Data included with Survey deliverables.***

The *M/V Inez McCall* conducted survey operations for this project. The vessel is 33.5 meters long and 7.5 meters wide with an approximate draft of 2.75 meters. A central reference point was established prior to the survey from which all relevant offsets were measured. Relevant offsets are presented in the following table.

LOCATIONS FROM CRP	Y (FORWARD)	X (STARBOARD)	Z (VERTICAL)
PRIMARY C-NAV	2.977m	-0.457m	-6.491m
SECONDARY C-NAV	3.052m	0.476m	-6.490m
PRIMARY POS MV	2.990m	-0.971	-6.500m
SECONDARY POS MV	3.044m	0.965m	-6.478m
SINGLEBEAM DUCER	14.304m	0.170m	3.098m
MULTIBEAM DUCER	14.518m	0.170m	3.048m
PRIMARY POS MV IMU	14.976m	ON ℄	-1.372m
DRAFT TUBE	-8.953m	2.621m	0.655m
SSS SHEAVE	-18.730m	ON ℄	-5.452m
MAG SHEAVE	-18.955m	2.133m	-4.480m
SBP SHEAVE	-14.485m	-4.85m	-3.100m
DF SINGLEBEAM DUCER	14.426m	-0.265m	3.090m
SECONDARY POS MV IMU	14.976m	ON ℄	-1.157m

A detailed vessel description, vessel diagram, and patch test results are presented in the *Data Acquisition and Processing Report. ***Data included with Survey deliverables.***

B.2 QUALITY CONTROL

In order to efficiently carry out this survey, the survey lines were oriented roughly east west throughout the survey area. The side scan was operated with a range of 100 meters per channel, and line spacing was set to 90 meters. These parameters allowed us to effectively meet the criteria of 200 percent side scan coverage, using Technique 2, as set forth in Section 6.1 of the "Specifications and Deliverables" document. The angular sector on the multibeam was set so that the criterion of two times water depth, as well as all accuracy, resolution, and detection criteria as set forth in Sections 5.2 and 5.3 of the "Specifications and Deliverables" document, were met. ***Concur***

The internal consistency of the multibeam depth values is quantified in the crossline statistics that were performed at the end of each main line. Crosslines were run prior to the collection of main line data so that quality control statistics could be performed on the data after each line. Based on pre-plot calculations, the total crossline miles were 12 nm, while the total main line miles were 225 nm. The cross lines comprised

about five percent of the total data set as compared to the main scheme lines. Rerun line miles are not included in these totals. As can be seen in the sample statistics found in *Separates V, the main lines and cross lines depth values showed very good agreement. Each main line was compared to all cross lines for which there was overlapping data. The graphs shown in *Separates V are a random sample of the graphs that were produced. The graphs show the mean difference, RMS difference, and confidence interval for each beam. The results show that the multibeam data was repeatable with 90 percent of the soundings within 8 to 14 centimeters across the swath. The two BASE surfaces for Sheet 2 were created at a scale of 1:10000 with a resolution of two meters. Soundings between the base surfaces agree to within 1 foot in all areas, with no visible draft or tidal errors between the survey junctions. No further corrections to soundings are necessary. ***Concur with clarification. The BASE surface for sub area 2 had to be edited, re-extracted, and re-finalized during office processing.***

Multibeam quality control procedures are outlined in Section B.1 of the accompanying *Data Acquisition and Processing Report.

B.3 CORRECTIONS TO ECHO SOUNDINGS

No deviations from the Correction to Echo Soundings section in the *Data Acquisition and Processing Report occurred.

Data included with Survey deliverables.

C. VERTICAL AND HORIZONTAL CONTROL

Tide and water level corrections were determined and applied in accordance with the Co-ops Statement of Work. Data from Port Fourchon, LA (8762075) was used as the source of tides. The following table shows the tidal zone and correctors that were used for this sheet. Tidal data were processed using the 1983-01 epoch.

Tide Zone	Reference Station	Primary/ Secondary	Time Corrector	Range Ratio
CGM716	8762075	PRIM	-18	1.05
CGM717	8762075	PRIM	-12	1.09
CGM718	8762075	PRIM	-12	1.09
CGM732	8762075	PRIM	-6	1.09
CGM733	8762075	PRIM	-6	1.17
WGM266	8762075	PRIM	-18	1.21
WGM414	8762075	PRIM	-12	1.21
WGM415	8762075	PRIM	-6	1.21
WGM416	8762075	PRIM	-6	1.21

The horizontal datum for the survey is the North American Datum of 1983 (NAD 83). The projection is Universal Transverse Mercator (UTM) Zone 15 North. The vertical datum for the soundings is Mean Lower Low Water (MLLW).

D. RESULTS AND RECOMMENDATIONS

D.1 CHART COMPARISON

D.1.1 CHARTS AND NOTICES TO MARINERS

The following charts were used for comparison purposes.

Chart Number	Scale	Edition	Edition Date
11356	1:80,000	38	Jun 08
11340	1:458,596	74	Aug 09

The following table shows the last corrected NM and LNM for each digital chart.

Chart Number	Corrected Through	
	NM	LNM
11356	Jun 14/08	Jun 03/08
11340	Aug 08/09	Jul 28/09

D.1.2 CHARTED FEATURES *See Appendix II of this Report*

No evidence of the following charted feature was found during this survey. The majority of this charted wreck falls outside the H12244 survey area, and inside

Sheet 3 (H12245). The wreck was not found in either sheet, and is recommended that it be removed from chart number 11340. The position below was taken from the chart, and is approximate.

Charted Feature	Chart Number	Latitude	Longitude
Dangerous Wreck, Depth Unknown, PA	11340	29°00'10.203"N	90°58'02.239"W

D.1.3 NOTICES TO MARINERS ***See Appendix II of this Report***

The Notices to Mariners were reviewed from the last updated notice for each digital chart, to July 2010. During that time, eleven notices to mariners were issued for the charted area within the survey bounds.

In "LNM 31/08, 8th Dist" dated 10/2/2008, an “Add Platform: (PETROQUEST-101-11)” at 28°58'49.398"N, 90°57'27.129"W was issued for chart number 11356. This platform was present at the time of survey, and has been included in the platforms S57 feature file submitted with this report. ***Concur.***

In "LNM 32/08, 8th Dist" dated 10/2/2008, an “Add Platform: (PETROQUEST-101-10)” at 28°58'48.664"N, 90°56'56.263"W was issued for chart number 11356. This platform was present at the time of survey, and has been included in the platforms S57 feature file submitted with this report. ***Concur.***

Six LNM are for additions of Submarine Cables on chart number 11356. These cables are buried, making it impossible to confirm with sidescan and multibeam. Below is a listing of these notices.

Notice	Date	Name	Latitude	Longitude
"LNM 06/10, 8th Dist"	2/24/10	Submarine Cable PT 1 OF 5	28°58'13.100"N	90°53'11.300"W
"LNM 06/10, 8th Dist"	2/24/10	Submarine Cable PT 2 OF 5	28°58'11.600"N	90°53'10.700"W
"LNM 06/10, 8th Dist"	2/24/10	Submarine Cable PT 3 OF 5	28°58'08.300"N	90°53'08.500"W

"LNM 06/10, 8th Dist"	2/24/10	Submarine Cable PT 4 OF 5	28°58'05.300"N	90°53'08.000"W
"LNM 06/10, 8th Dist"	2/24/10	Submarine Cable PT 5 OF 5	28°58'04.000"N	90°53'07.700"W
"LNM 06/10, 8th Dist"	2/24/10	Submarine Cable PT 2 OF 2	28°58'03.000"N	90°53'05.000"W

Three LNM are for additions of Submarine Pipelines on chart number 11356. These pipelines are buried, making it impossible to confirm with sidescan and multibeam. Below is a listing of these notices.

Notice	Date	Name	Latitude	Longitude
"LNM 11/09, 8th Dist"	3/19/2009	Submarine Pipeline PT 1 OF 3	28°58'50.900"N	90°57'27.800"W
"LNM 11/09, 8th Dist"	3/19/2009	Submarine Pipeline PT 2 OF 3	28°58'50.400"N	90°57'27.100"W
"LNM 11/09, 8th Dist"	3/19/2009	Submarine Pipeline PT 3 OF 3	28°58'57.600"N	90°57'16.100"W

D.1.4 CHARTED SOUNDINGS

Chart 11340

No charted soundings are found within the H12243 ***4*** survey area.

Chart 11356

Surveyed soundings are one to three feet deeper than charted soundings throughout the entire survey area. ***Concur.***

D.1.5 SHOALS AND HAZARDOUS FEATURES ***See also Appendix I of this Report***

There are no charted shoals within the survey bounds, and none were found during survey operations. One uncharted hazardous feature was found during the survey. This feature has been submitted as a DTON and is discussed in section D.1.8 of this report.

D.1.6 AWOIS ITEMS ***See also Appendix II of this Report***

There were no AWOIS items assigned for full investigation within the H12244 survey area. ***Concur with conditions.***

D.1.7 INVESTIGATION ITEMS ***See Appendix I and II of this Report***

Additional investigation work was performed for two significant sonar contacts. Six to eight additional multibeam and side scan lines were run over each of these targets. After review, one contact was found to be significant. A copy of the DTON report can be found in section D.1.8 of this report.

D.1.8 DANGER TO NAVIGATION REPORTS ***See Appendix I of this Report***

One danger to navigation report was issued for this survey. It has been marked as a designated sounding within the H12244 CARIS project. The submitted DTON report can be in Appendix I of this report. ***Concur.***

D.2 ADDITIONAL RESULTS

D.2.1 PRIOR SURVEYS

Comparison with prior surveys was not required under this Task Order. See Section D.1 for comparison to nautical charts.

D.2.2 AIDS TO NAVIGATION

No Aids to Navigation are charted within the survey area.

D.2.3 EXISTING INFRASTUCTURE ***See Appendix II of this Report***

The following platforms were found as charted.

Surveyed Position			
Latitude	Longitude	Platform Name	Chart Action

28°59'11.571"N	90°56'35.668"W	SS 63#10	Remain on chart
28°58'57.385"N	90°57'16.507"W	SS 63#14	Remain on chart
28°58'50.800"N	90°57'27.972"W	SS 63#16	Remain on chart
28°58'19.718"N	90°57'49.852"W	SS 77 I	Remain on chart
28°58'20.721"N	90°57'34.445"W	SS 71#11	Remain on chart
28°58'49.297"N	90°56'57.193"W	SS 63 K	Remain on chart
28°58'42.916"N	90°56'47.066"W	SS 64#1	Remain on chart

The following uncharted platforms were present at the time of survey

Charted Position			
Latitude	Longitude	Platform Name	Chart Action
28°58'24.500"N	90°57'08.512"W	No visible name	Add
28°58'13.092"N	90°53'13.242"W	SS 70	Add

The following is a list of structures that are currently charted, but were no longer present at the time of the survey.

Latitude	Longitude	Chart Action
28°59'13.574"N	90°57'14.838"W	Delete
28°58'59.282"N	90°56'37.064"W	Delete
28°58'51.235"N	90°56'57.576"W	Delete
28°58'47.641"N	90°56'56.069"W	Delete

D.2.4 OTHER PERTINENT INFORMATION

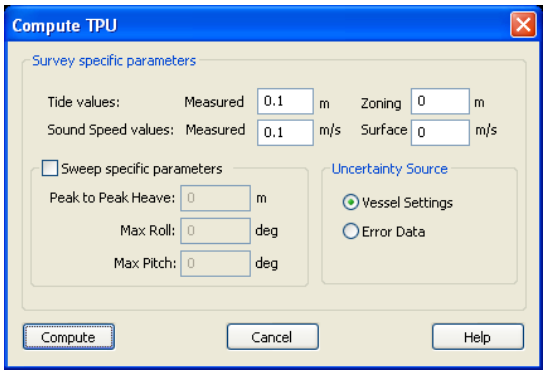
Draft corrections were verified on a daily basis, and entered into the multibeam collection software to be applied in real-time. Draft was entered directly into the single beam. ***Concur***

Two BASE surfaces were created for this project, one for each subarea. Both BASE surfaces were created at two-meter resolution. ***Concur***

All of the side scan data collected for this project has been layback corrected. Data should be imported into Caris using fish position and zero layback correction. ***Concur.***

S57 feature files for oil and gas infrastructure and obstructions have been submitted in a Caris Notebook project.

All TPE values were calculated using the following settings. ***Concur***



LETTER OF APPROVAL

REGISTRY NUMBER H12244

This report and the accompanying smooth sheet are respectfully submitted.

Field operations contributing to the accomplishment of the survey H12244 were conducted under my direct supervision with frequent personal checks of progress and adequacy. This report and CARIS project have been closely reviewed and are considered complete and adequate as per the Statement of Work.

This report is accompanied by the Data Acquisition and Processing Report for project OPR-K354-KR-10.

John Baker
Chief of Party
C&C Technologies
December 2010

APPENDIX I

DANGERS TO NAVIGATION

H12244_DToN Report

Registry Number: H12244
State: Louisiana
Locality: Gulf of Mexico
Sub-locality: 5 NM SE of Racoon Point
Project Number: OPR-K354-KR10
Survey Date: 08/01/2010

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11356	38th	06/01/2008	1:80,000 (11356_1)	USCG LNM: 6/21/2011 (6/21/2011) NGA NTM: 10/16/2010 (6/25/2011)
11340	73rd	08/01/2008	1:458,596 (11340_1)	[L]NTM: ?
1116A	73rd	08/01/2008	1:458,596 (1116A_1)	[L]NTM: ?
411	52nd	09/01/2007	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	DToN #1 - 24 ft obstruction - exposed pipe	Obstruction	7.44 m	28° 58' 41.0" N	090° 51' 58.4" W	---

1 - DR_DToN

1.1) DToN #1 - 24 ft obstruction - exposed pipe

DANGER TO NAVIGATION

Survey Summary

Survey Position:	28° 58' 41.0" N, 090° 51' 58.4" W
Least Depth:	7.44 m (= 24.41 ft = 4.069 fm = 4 fm 0.41 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2010-213.00:00:00.000 (08/01/2010)
GP Dataset:	AHB_H12244 / SAR / SAR AHB HOB Files / ALL_Features.000
GP No.:	022600007E8B0001
Charts Affected:	11356_1, 1116A_1, 11340_1, 411_1

Remarks:

FROM DTON REPORT: Least depth measurement of this item is 24.413 feet (7.44 meters) in charted 25 ft depths. After observed tide corrections, the surveyed depths in this area are 27 feet, meaning this feature protrudes approximately 2.5 feet above

the sea floor. Imagery indicates the feature is a pipe that lies horizontal on the sea floor.

Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12244/SAR/SAR AHB HOB Files/ALL_Features.000	022600007E8B0001	0.00	000.0	Primary

Hydrographer Recommendations

Cartographically-Rounded Depth (Affected Charts):

24ft (11356_1)

4fm (1116A_1, 11340_1, 411_1)

S-57 Data

Geo object 1:	Obstruction (OBSTRN)
Attributes:	NINFOM - Add
	SORDAT - 20100801
	SORIND - US,US,graph,H12244

TECSOU - 3:found by multi-beam

VALSOU - 7.441 m

WATLEV - 3:always under water/submerged

Office Notes

SAR: Feature submitted as a DToN on 12/10/2010. Feature is real. Feature is an underwater pipe.

Compilation: Concur with clarification. Feature was submitted to MCD as a DToN, however, the feature is currently uncharted on Chart 11356, 38 Ed., and smaller scale charts. Office processing determined that the feature is insignificant when compared to the surrounding depth data (only 2 feet off seafloor) and does not pose a threat to surface navigation that warrants being charted as a dangerous obstruction. Chart the feature as a shoal 24 ft sounding.

Feature Images

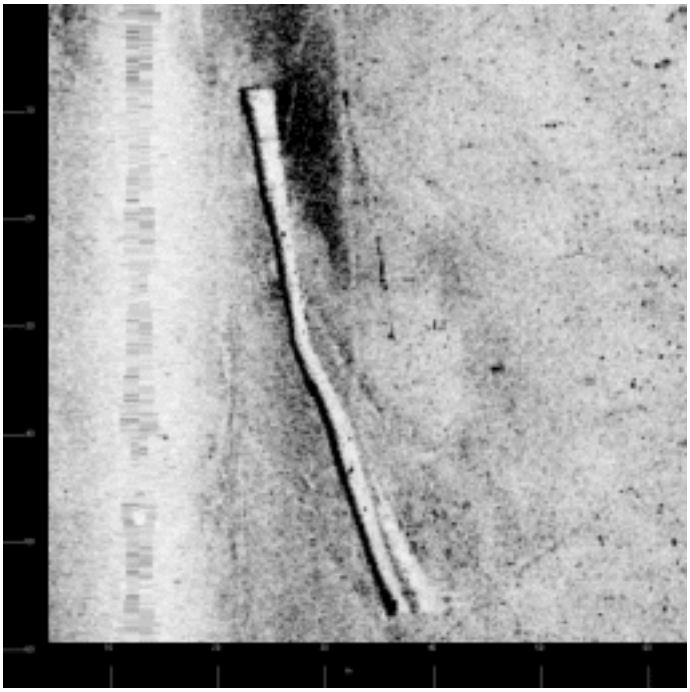


Figure 1.1.1

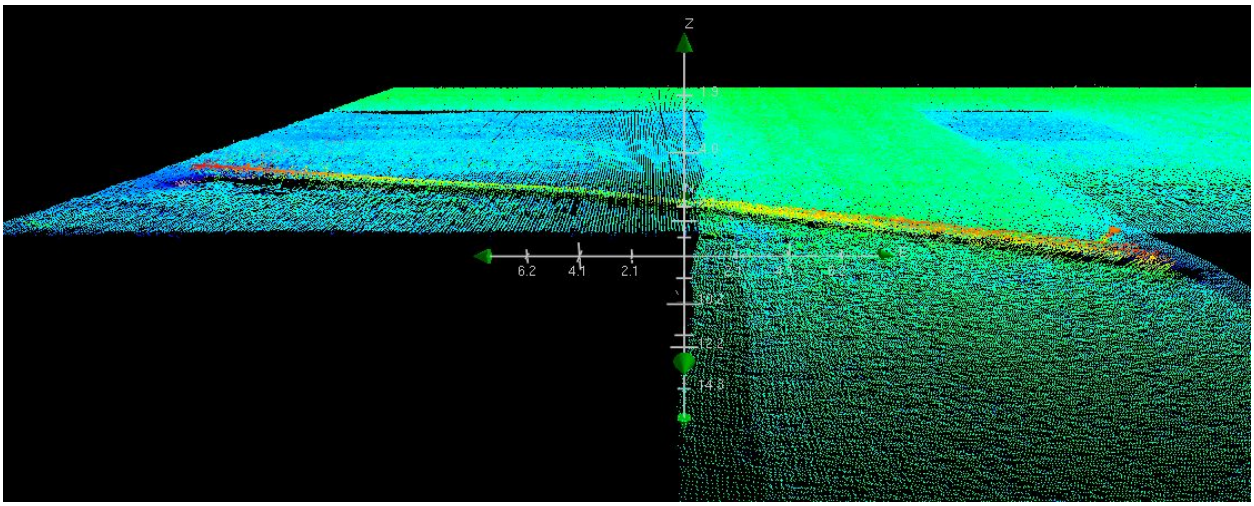


Figure 1.1.2

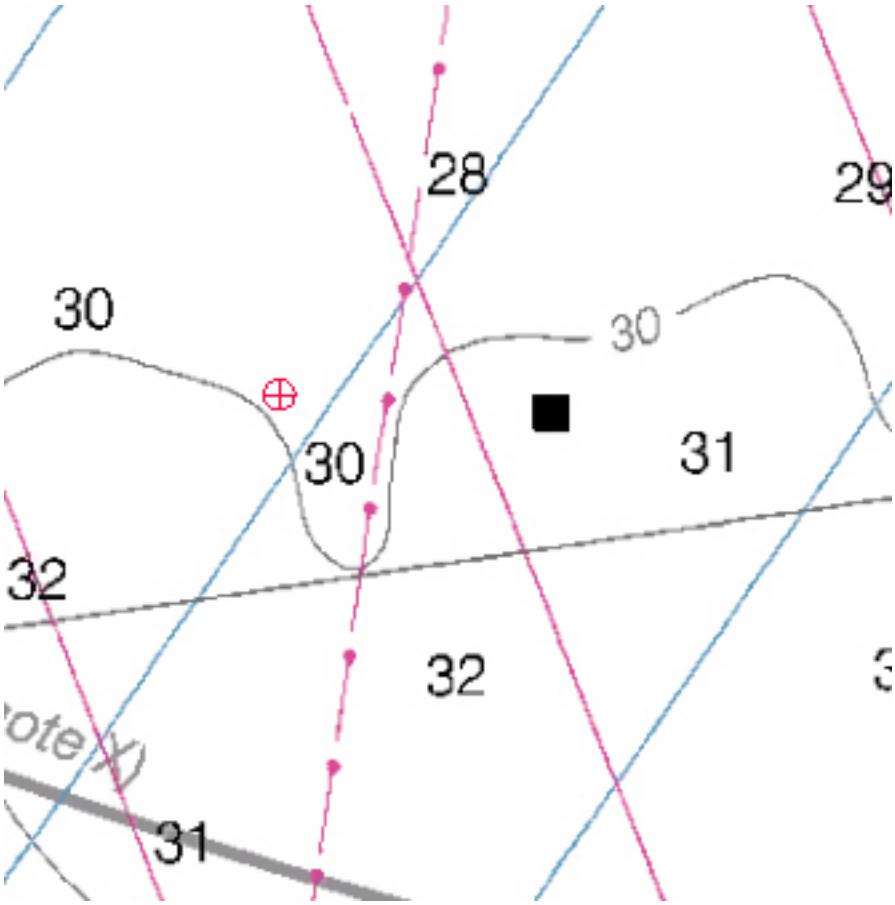
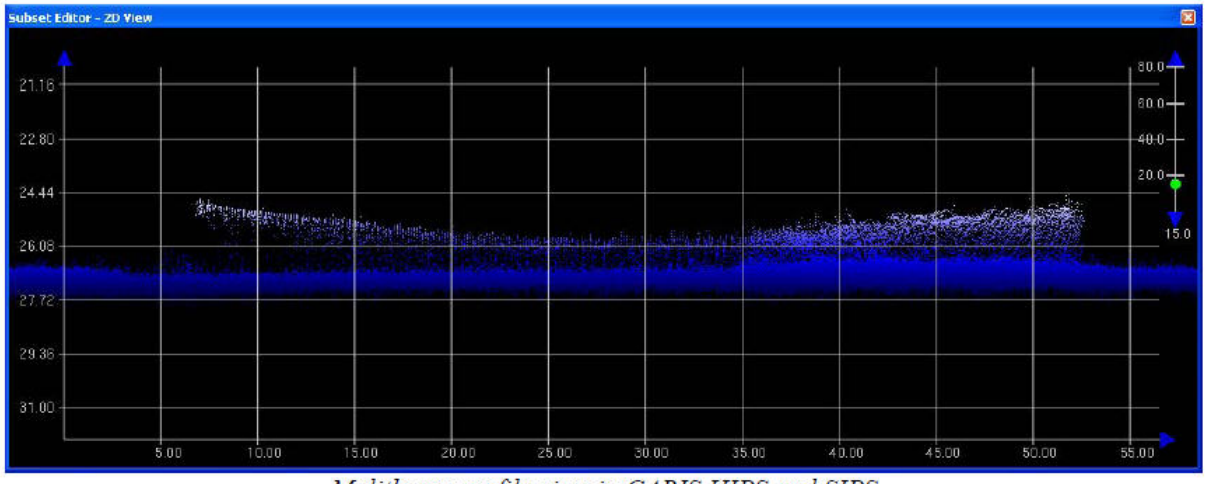
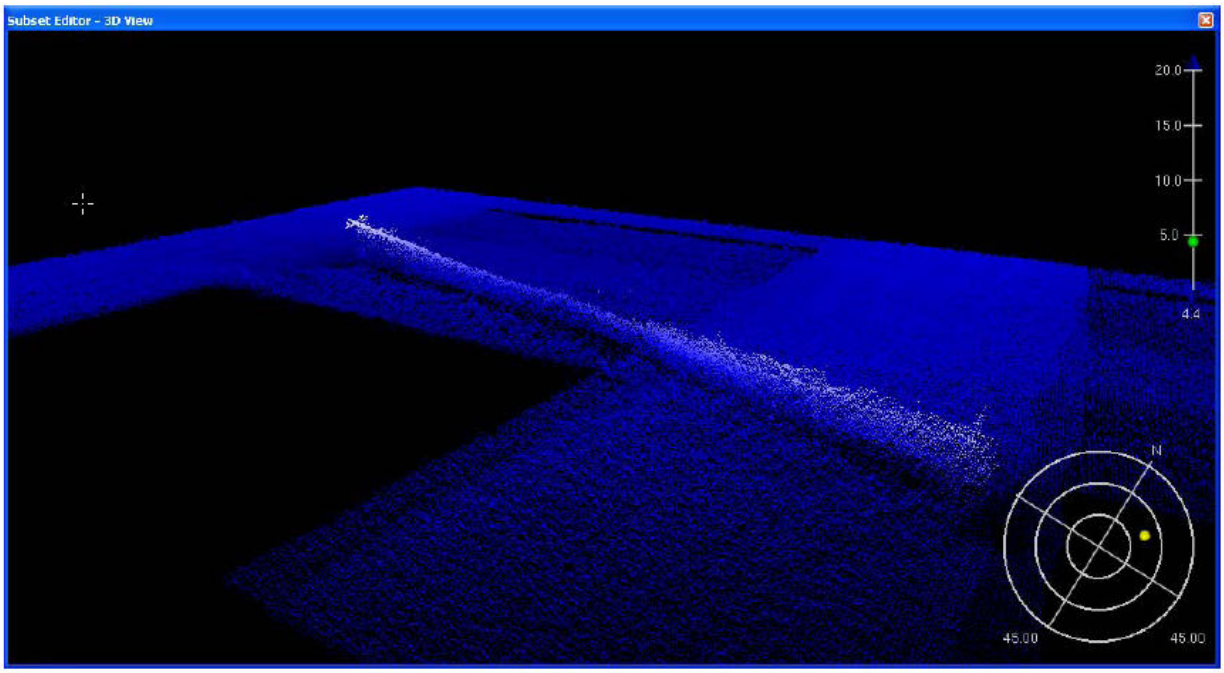


Figure 1.1.3



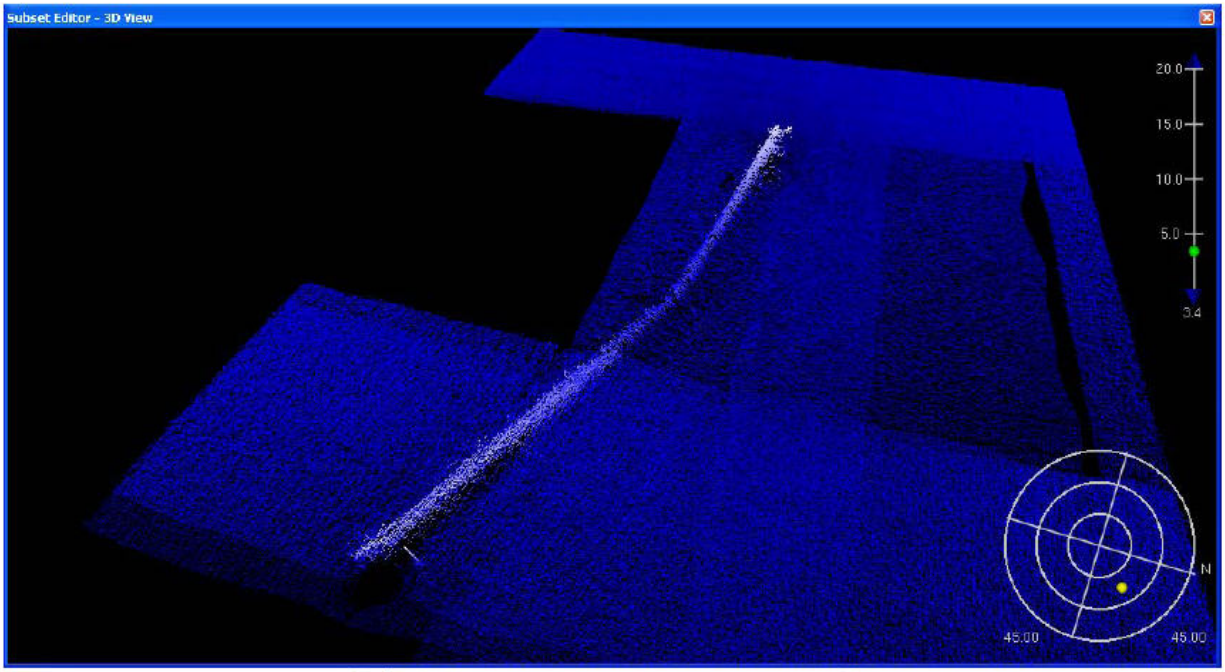
Mulitbeam profile view in CARIS HIPS and SIPS

Figure 1.1.4



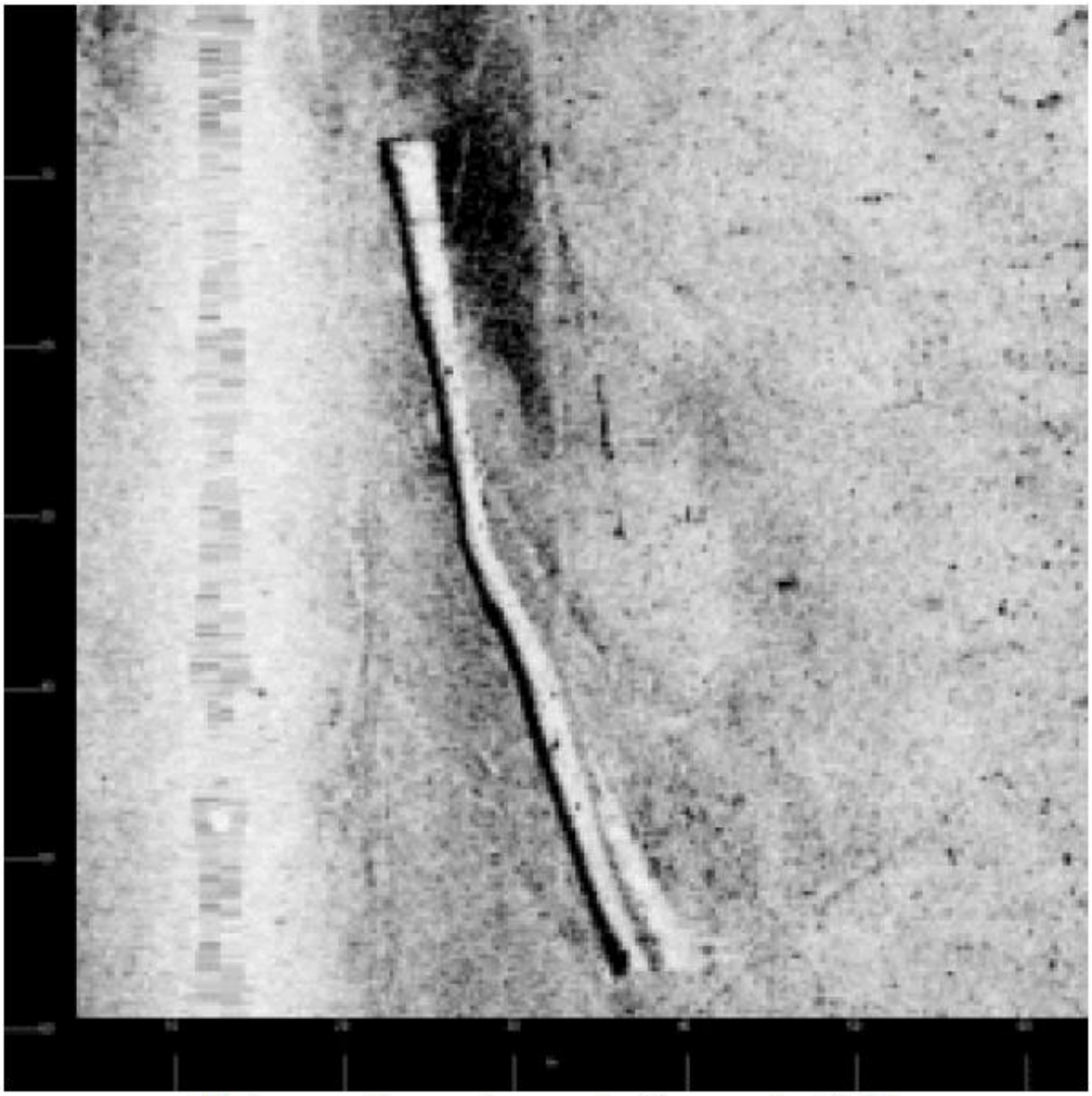
Mulitbeam 3D view in CARIS HIPS and SIPS

Figure 1.1.5



Mulitbeam 3D view in CARIS HIPS and SIPS

Figure 1.1.6



Sidescan Sonar image in Sonarwiz MAP

Figure 1.1.7

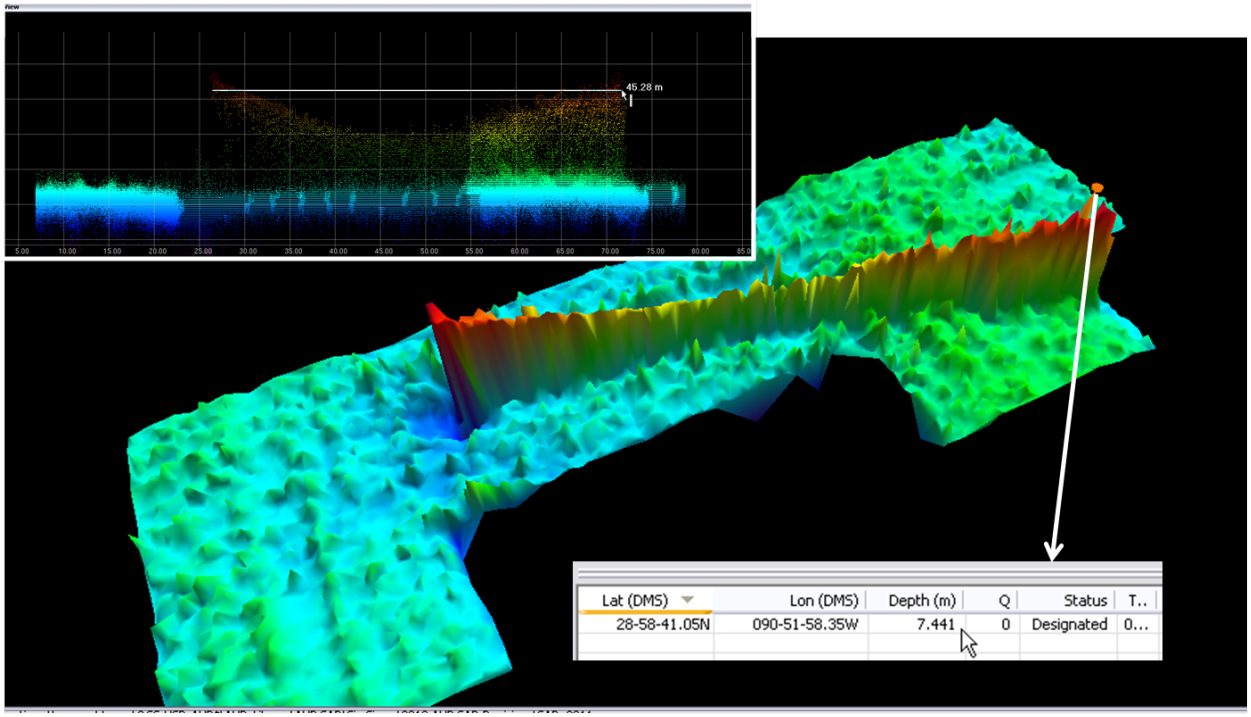

45.28 m
Lat (DMS)
Lon (DMS)
Depth (m)
Q
Status
T..
28-58-41.05N
090-51-58.35W
7.441
0
Designated
0...

Figure 1.1.8

APPENDIX II

SURVEY FEATURES REPORT

H12244_AWOIS Item Report

Registry Number: H12244
State: Louisiana
Locality: Gulf of Mexico
Sub-locality: 5 NM SE of Racoon Point
Project Number: OPR-K354-KR10
Survey Date: 08/01/2010

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11356	38th	06/01/2008	1:80,000 (11356_1)	USCG LNM: 6/21/2011 (6/21/2011) NGA NTM: 10/16/2010 (6/25/2011)
11340	73rd	08/01/2008	1:458,596 (11340_1)	[L]NTM: ?
1116A	73rd	08/01/2008	1:458,596 (1116A_1)	[L]NTM: ?
411	52nd	09/01/2007	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	AWOIS 13938 - Dangerous wreck, depth unknown, PA	Wreck	[None]	29° 00' 00.8" N	090° 58' 00.4" W	---

1 - DR_AWOIS

1.1) AWOIS 13938 - Dangerous wreck, depth unknown, PA

Survey Summary

Survey Position:	29° 00' 00.8" N, 090° 58' 00.4" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2010-213.00:00:00.000 (08/01/2010)
GP Dataset:	AHB_H12244 / SAR / SAR AHB HOB Files / ALL_Features.000
GP No.:	022600007EA70001
Charts Affected:	11356_1, 1116A_1, 11340_1, 411_1

Remarks:

HISTORY: AWOIS 13938

Awois Record: 13938MISS ELLEN Print View

| +10 -->

General Information

Vesslterms: MISS ELLEN Chart: 11356 Depth: Area: K Recrd: 13938

Cartocode: 100 Sndingcode:

Status: Awois Item Available

Status last updated:N/A

Position Information

Native Lat/Lon: Datum:NAD83

Deg-Min-Sec: No Data

Lat/Lon 83:

Deg-Min-Sec: 29 / 0 / 1.83 N

90 / 58 / 0.33 W

Decimal Degrees: 29.000508N 90.966758W

Gpquality: Low Gpsource: Scaled

Project Information

Project: OPR-K354-KR-10 Itemstatus: Assigned Searchtype: Full

Radius: 1000 Init: KSJ Assigned: 04/02/2010

Techniq: S2, MB, SD Yearsunk: Reference:

Descriptive Information

Techniqnote:

History:

8TH CGD WRECK LIST, 7/17/65, DMA317; DMA reports the wreck Miss Ellen at approx pos./ LAT 29 00 01.0N LON 090 58 00.0W

Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12244/SAR/SAR AHB HOB Files/ALL_Features.000	022600007EA70001	0.00	000.0	Primary

Hydrographer Recommendations

S-57 Data

Geo object 1: Wreck (WRECKS)

Attributes:

CATWRK - 2:dangerous wreck

NINFOM - Delete

QUASOU - 2:depth unknown

SORDAT - 20100801

SORIND - US,US,graph,H12244

WATLEV - 3:always under water/submerged

Office Notes

SAR: Wk (PA) ensonified with 200% SSS, skunk strip MBES. Considered disproved. Addressed in survey H12245.

Compilation: Concur with clarification. AWOIS 13938 is shown on chart 11356; 38th Ed., 06012008 and smaller scale charts as a dangerous wreck, depth unknown, PA. Office processing determined that the wreck was not fully investigated by the present survey. About 1% of the item was investigated by the present survey and 99% of it is within the limits of junctional survey H12245. It is recommended that a final charting decision is made during the processing of survey H12245 which is currently in receipt awaiting processing at AHB. No changes to charting are recommended at this time.

H12244_Charted Item Report

Registry Number: H12244
State: Louisiana
Locality: Gulf of Mexico
Sub-locality: 5 NM SE of Racoon Point
Project Number: OPR-K354-KR10
Survey Dates: 06/22/2010 - 08/01/2010

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11356	38th	06/01/2008	1:80,000 (11356_1)	USCG LNM: 6/21/2011 (6/21/2011) NGA NTM: 10/16/2010 (6/25/2011)
11340	73rd	08/01/2008	1:458,596 (11340_1)	[L]NTM: ?
1116A	73rd	08/01/2008	1:458,596 (1116A_1)	[L]NTM: ?
411	52nd	09/01/2007	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	Delete charted offshore platform	GP	[None]	28° 59' 20.0" N	090° 57' 52.3" W	---
1.2	Delete charted offshore platform. Add present survey offshore platform	GP	[None]	28° 58' 19.7" N	090° 57' 49.9" W	---
1.3	Delete charted offshore platform. Add present survey offshore platform	GP	[None]	28° 58' 20.7" N	090° 57' 34.4" W	---
1.4	Delete charted offshore platform. Add present survey offshore platform	GP	[None]	28° 58' 50.8" N	090° 57' 28.0" W	---
1.5	Delete charted offshore platform. Add present survey offshore platform.	GP	[None]	28° 58' 57.4" N	090° 57' 16.5" W	---
1.6	Delete charted offshore platform.	GP	[None]	28° 59' 12.7" N	090° 57' 15.6" W	---
1.7	Delete charted offshore platform	GP	[None]	28° 58' 50.5" N	090° 56' 58.5" W	---
1.8	Delete Charted offshore platform. Add present survey offshore platform.	GP	[None]	28° 58' 49.3" N	090° 56' 57.2" W	---
1.9	Delete offshore platform	GP	[None]	28° 58' 48.7" N	090° 56' 56.3" W	---
1.10	Delete Charted offshore platform. Add present survey offshore platform.	GP	[None]	28° 58' 42.9" N	090° 56' 47.1" W	---
1.11	Delete offshore platform	GP	[None]	28° 58' 58.8" N	090° 56' 37.8" W	---
1.12	Delete Charted offshore platform. Add present survey offshore platform.	GP	[None]	28° 59' 11.6" N	090° 56' 35.7" W	---

1 - DR_Charted

1.1) Delete charted offshore platform

Survey Summary

Survey Position: 28° 59' 20.0" N, 090° 57' 52.3" W
Least Depth: [None]
TPU (±1.96σ): **THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp: 1981-001.00:00:00.000 (01/01/1981)
GP Dataset: AHB_H12244 / SAR / SAR AHB HOB Files / ALL_Features.000
GP No.: 022600007E910001
Charts Affected: 11356_1, 1116A_1, 11340_1, 411_1

Remarks:
[None]

Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12244/SAR/SAR AHB HOB Files/ALL_Features.000	022600007E910001	0.00	000.0	Primary

Hydrographer Recommendations

S-57 Data

Geo object 1: Cartographic symbol ($CSYMB)
Attributes: NINFOM - Chart

Office Notes

SAR: No evidence of feature was found in 200%SSS with concurent skunk stripe MBES

Compilation: Concur. Delete charted offshore platform

1.2) Delete charted offshore platform. Add present survey offshore platform

Survey Summary

Survey Position: 28° 58' 19.7" N, 090° 57' 49.9" W
Least Depth: [None]
TPU (±1.96σ): **THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp: 2010-213.00:00:00.000 (08/01/2010)
GP Dataset: AHB_H12244 / SAR / SAR AHB HOB Files / ALL_Features.000
GP No.: 022600007E920001
Charts Affected: 11356_1, 1116A_1, 11340_1, 411_1

Remarks:

SS 77 I

Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12244/SAR/SAR AHB HOB Files/ALL_Features.000	022600007E920001	0.00	000.0	Primary

Hydrographer Recommendations

S-57 Data

Geo object 1: Offshore platform (OFSPLF)
Attributes: NINFOM - Chart
OBJNAM - SS 77 I
SORDAT - 20100801
SORIND - US,US,graph,H12244

Office Notes

SAR: Feature was verified with 200%SSS in NAD83 zone 15N at 28-58-19.718N, 090-57-49.852W.

Compilation: Concur. Delete charted offshore platform. Add present survey offshore platform.

Feature Images

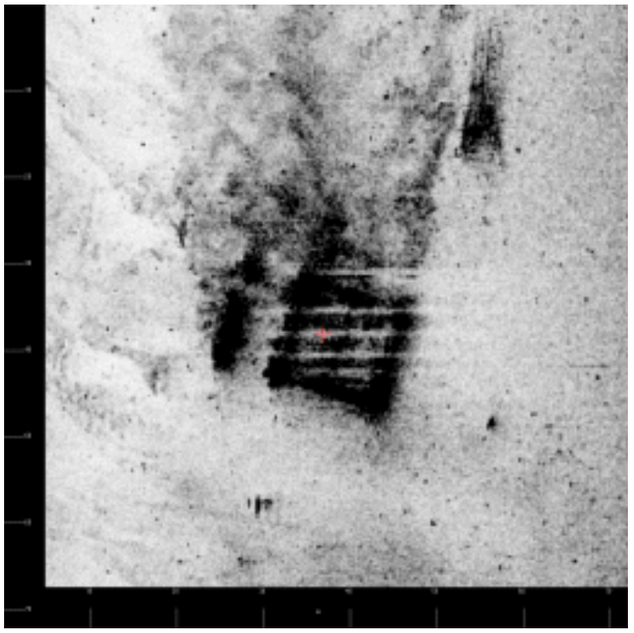


Figure 1.2.1

1.3) Delete charted offshore platform. Add present survey offshore platform

Survey Summary

Survey Position: 28° 58' 20.7" N, 090° 57' 34.4" W
Least Depth: [None]
TPU (±1.96σ): **THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp: 2010-213.00:00:00.000 (08/01/2010)
GP Dataset: AHB_H12244 / SAR / SAR AHB HOB Files / ALL_Features.000
GP No.: 022600007E870001
Charts Affected: 11356_1, 1116A_1, 11340_1, 411_1

Remarks:
SS 71#11

Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12244/SAR/SAR AHB HOB Files/ALL_Features.000	022600007E870001	0.00	000.0	Primary

Hydrographer Recommendations

S-57 Data

Geo object 1: Offshore platform (OFSPLF)
Attributes: NINFOM - Chart
OBJNAM - SS 71#11
SORDAT - 20100801
SORIND - US,US,graph,H12244

Office Notes

SAR: Feature was verified with 200%SSS NAD83 zone 15N at 28-58-20.721N, 090-57-34.445W.

Compilation: Concur. Delete charted offshore platform. Add present survey offshore platform

Feature Images

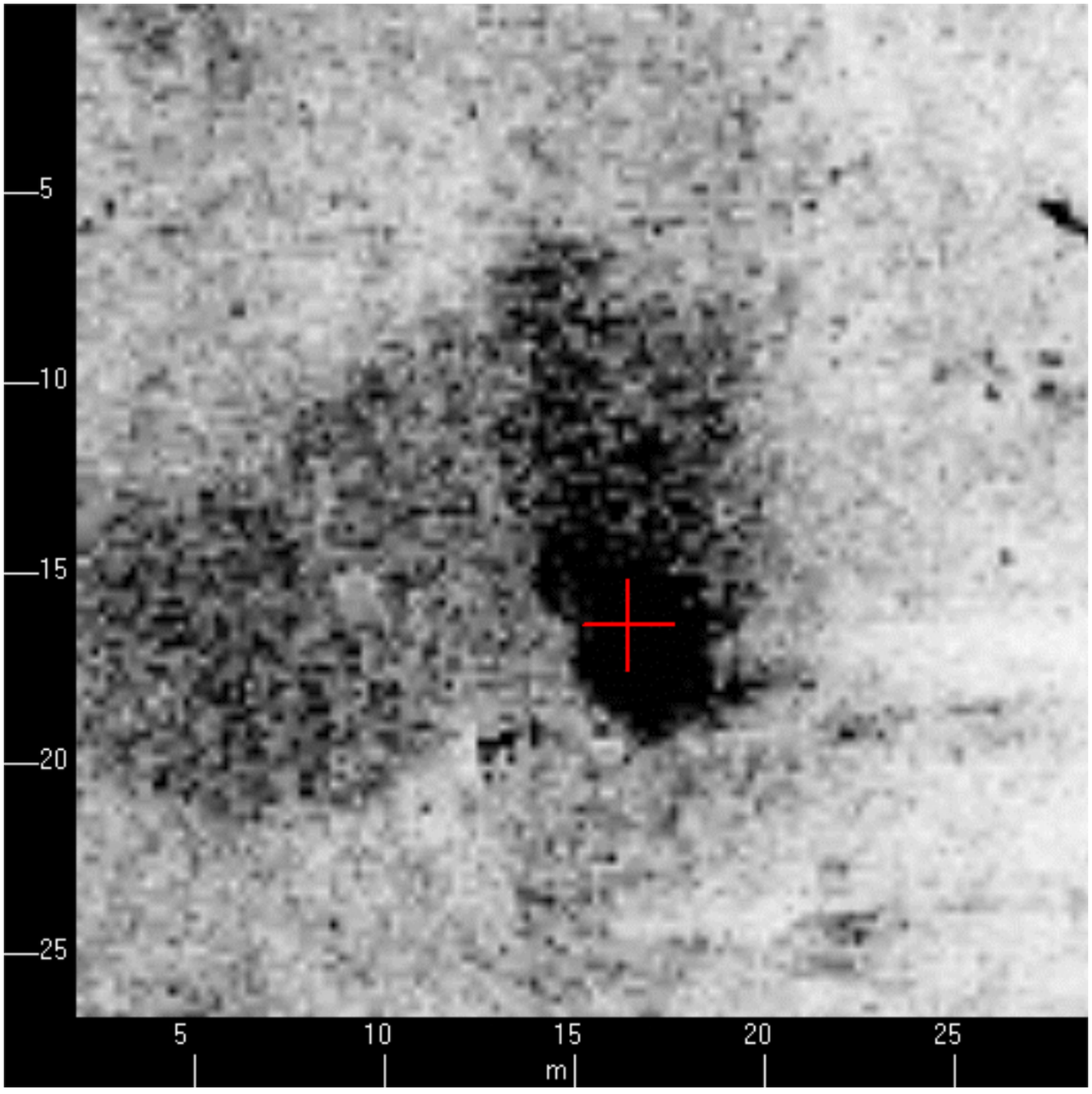


Figure 1.3.1

1.4) Delete charted offshore platform. Add present survey offshore platform

Survey Summary

Survey Position: 28° 58' 50.8" N, 090° 57' 28.0" W
Least Depth: [None]
TPU (±1.96σ): **THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp: 2010-213.00:00:00.000 (08/01/2010)
GP Dataset: AHB_H12244 / SAR / SAR AHB HOB Files / ALL_Features.000
GP No.: 022600007E860001
Charts Affected: 11356_1, 1116A_1, 11340_1, 411_1

Remarks:
SS 63#16

Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12244/SAR/SAR AHB HOB Files/ALL_Features.000	022600007E860001	0.00	000.0	Primary

Hydrographer Recommendations

S-57 Data

Geo object 1: Offshore platform (OFSPLF)
Attributes: NINFOM - Chart
OBJNAM - SS 63#16
SORDAT - 20100801
SORIND - US,US,graph,H12244

Office Notes

SAR: Feature was verified with 200%SSS NAD83 zone 15N at 28-58-50.800N, 090-57-27.972W

Compilation: Concur. Delete charted offshore platform. Add present survey offshore platform

Feature Images

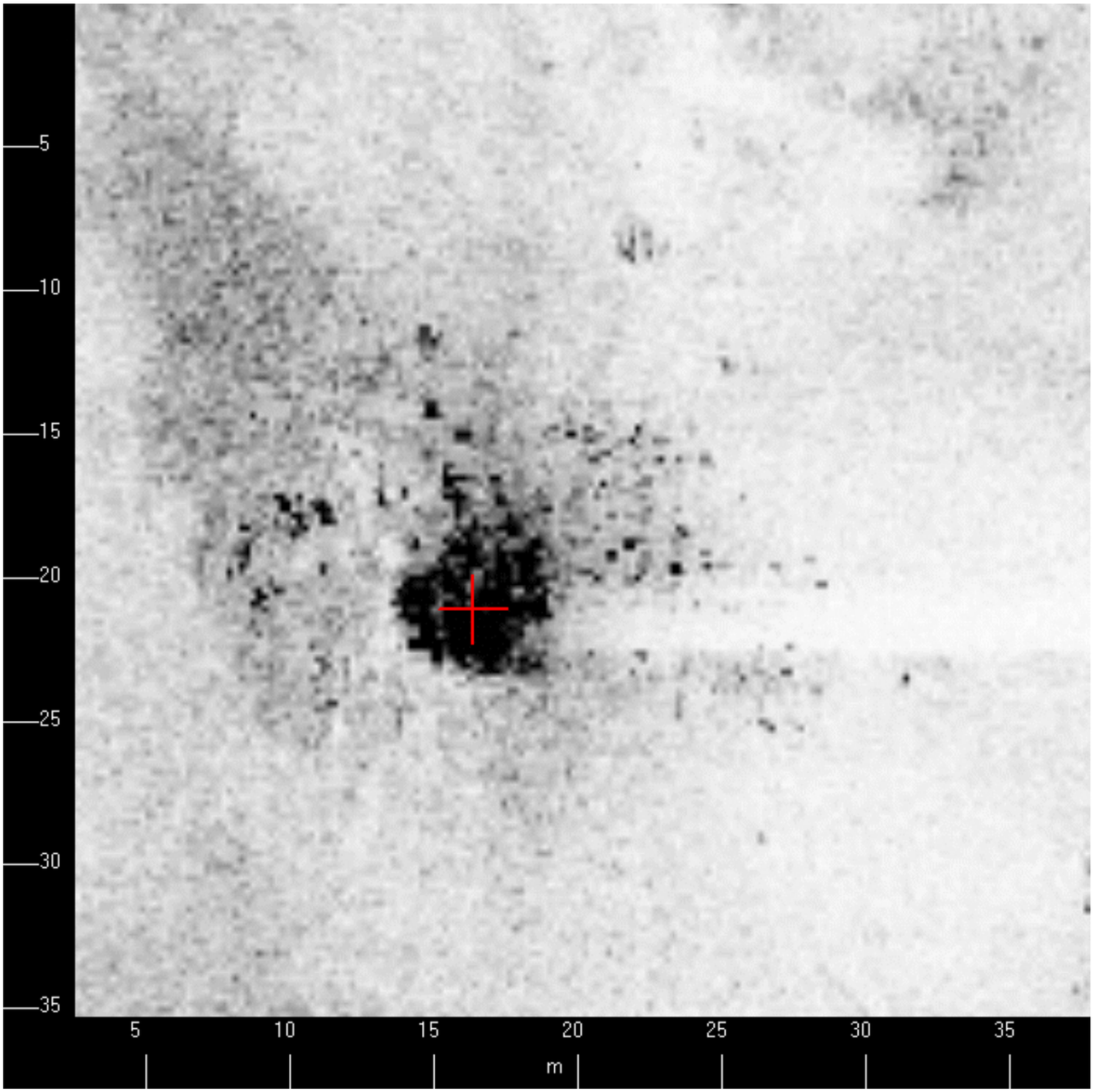


Figure 1.4.1

1.5) Delete charted offshore platform. Add present survey offshore platform.

Survey Summary

Survey Position: 28° 58' 57.4" N, 090° 57' 16.5" W
Least Depth: [None]
TPU (±1.96σ): **THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp: 2010-213.00:00:00.000 (08/01/2010)
GP Dataset: AHB_H12244 / SAR / SAR AHB HOB Files / ALL_Features.000
GP No.: 022600007E850001
Charts Affected: 11356_1, 1116A_1, 11340_1, 411_1

Remarks:
SS 63#14

Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12244/SAR/SAR AHB HOB Files/ALL_Features.000	022600007E850001	0.00	000.0	Primary

Hydrographer Recommendations

S-57 Data

Geo object 1: Offshore platform (OFSPLF)
Attributes: NINFOM - Chart
OBJNAM - SS 63#14
SORDAT - 20100801
SORIND - US,US,graph,H12244

Office Notes

SAR: Feature was verified with 200%SSS NAD83 zone 15N at 28-58-57.385N, 090-57-16.507W

Compilation: Concur. Delete charted offshore platform. Add present survey offshore platform.

Feature Images

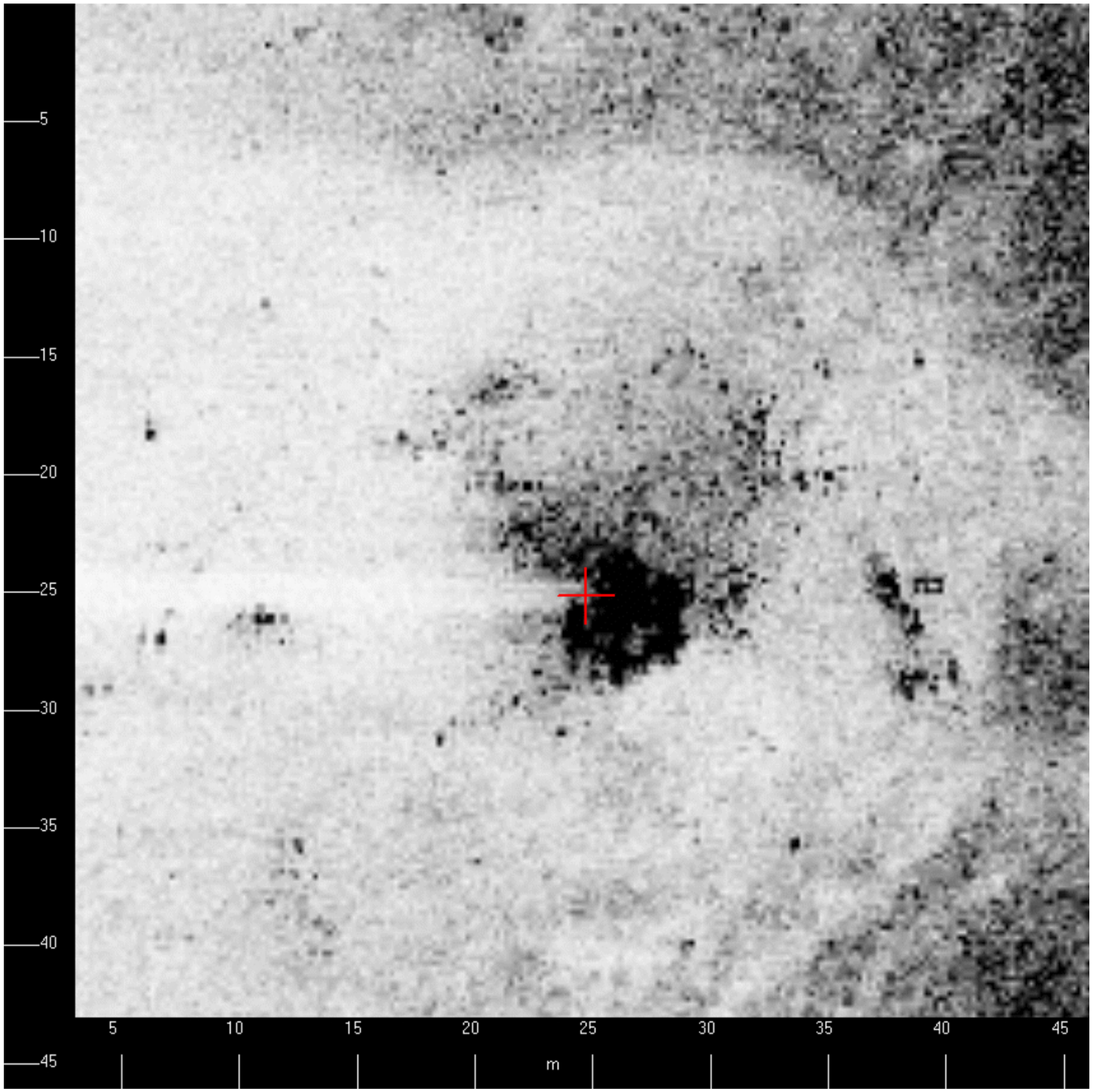


Figure 1.5.1

1.6) Delete charted offshore platform.

Survey Summary

Survey Position: 28° 59' 12.7" N, 090° 57' 15.6" W
Least Depth: [None]
TPU (±1.96σ): **THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp: 1981-001.00:00:00.000 (01/01/1981)
GP Dataset: AHB_H12244 / SAR / SAR AHB HOB Files / ALL_Features.000
GP No.: 022600007E8C0001
Charts Affected: 11356_1, 1116A_1, 11340_1, 411_1

Remarks:
[None]

Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12244/SAR/SAR AHB HOB Files/ALL_Features.000	022600007E8C0001	0.00	000.0	Primary

Hydrographer Recommendations

S-57 Data

Geo object 1: Cartographic symbol ($CSYMB)
Attributes: NINFOM - Delete

Office Notes

SAR: No evidence of feature in 200% SSS with concurent skunk strip MBES

Compilation: Concur. Delete charted offshore platform.

1.7) Delete charted offshore platform

Survey Summary

Survey Position: 28° 58' 50.5" N, 090° 56' 58.5" W
Least Depth: [None]
TPU (±1.96σ): **THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp: 1981-001.00:00:00.000 (01/01/1981)
GP Dataset: AHB_H12244 / SAR / SAR AHB HOB Files / ALL_Features.000
GP No.: 022600007E8E0001
Charts Affected: 11356_1, 1116A_1, 11340_1, 411_1

Remarks:
[None]

Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12244/SAR/SAR AHB HOB Files/ALL_Features.000	022600007E8E0001	0.00	000.0	Primary

Hydrographer Recommendations

S-57 Data

Geo object 1: Cartographic symbol ($CSYMB)
Attributes: NINFOM - Delete

Office Notes

SAR: No evidence of feature was found in 200%SSS with concurent skunk stripe MBES

Compilation: Concur. Delete charted offshore platform

1.8) Delete Charted offshore platform. Add present survey offshore platform.

Survey Summary

Survey Position: 28° 58' 49.3" N, 090° 56' 57.2" W
Least Depth: [None]
TPU (±1.96σ): **THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp: 2010-213.00:00:00.000 (08/01/2010)
GP Dataset: AHB_H12244 / SAR / SAR AHB HOB Files / ALL_Features.000
GP No.: 022600007E900001
Charts Affected: 11356_1, 1116A_1, 11340_1, 411_1

Remarks:

Prod SS 63K

Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12244/SAR/SAR AHB HOB Files/ALL_Features.000	022600007E900001	0.00	000.0	Primary

Hydrographer Recommendations

S-57 Data

Geo object 1: Offshore platform (OFSPLF)
Attributes: NINFOM - Chart
OBJNAM - SS 63 K
SORDAT - 20100801
SORIND - US,US,graph,H12244

Office Notes

SAR: Feature was verified with 200% SSS in NAD83 zone 15N at 28-58-49.297N, 090-56-57.19W.

Compilation: Concur. Delete Charted offshore platform. Add present survey offshore platform.

Feature Images

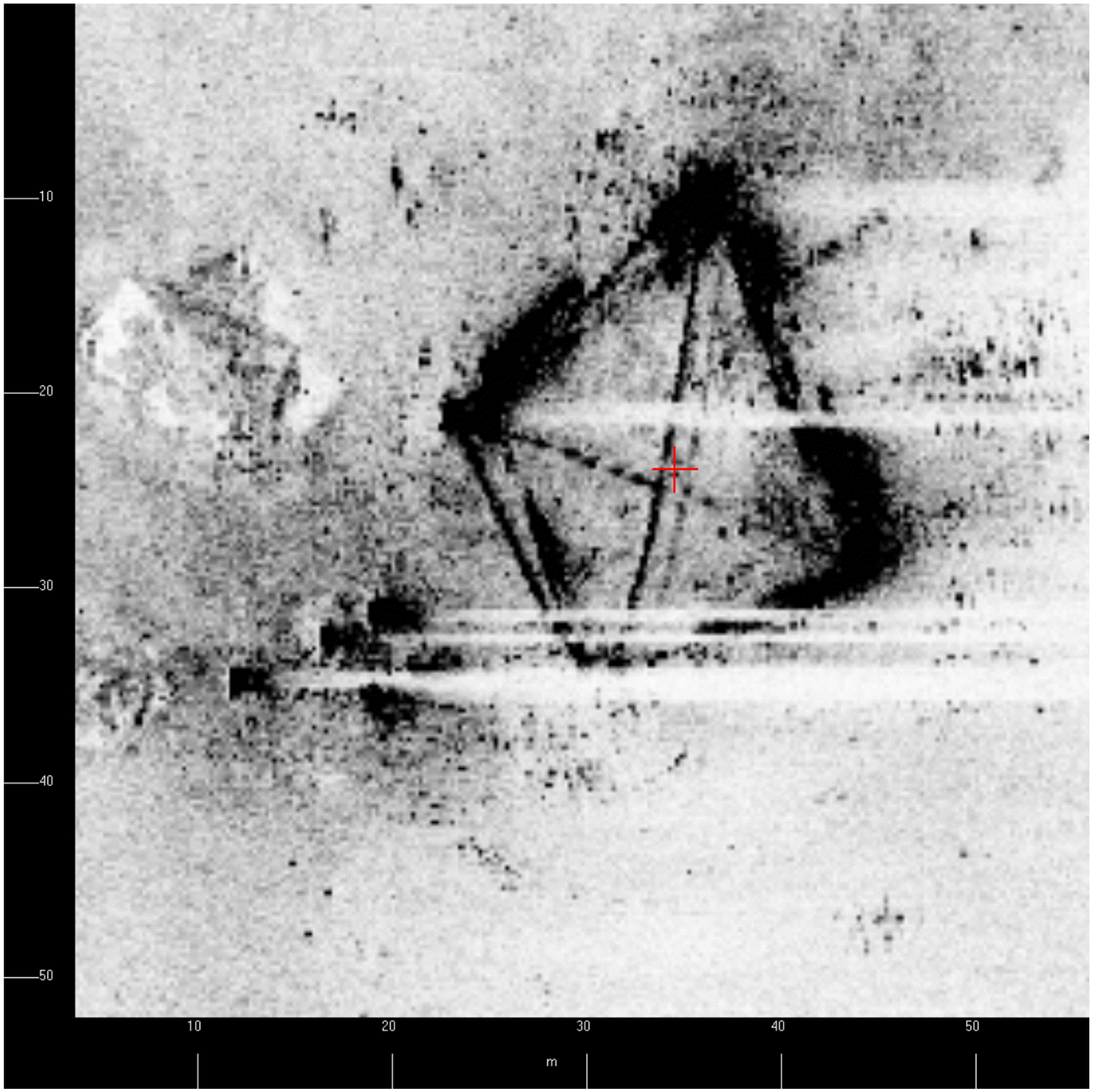


Figure 1.8.1

1.9) Delete offshore platform

Survey Summary

Survey Position: 28° 58' 48.7" N, 090° 56' 56.3" W
Least Depth: [None]
TPU (±1.96σ): **THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp: 1981-001.00:00:00.000 (01/01/1981)
GP Dataset: AHB_H12244 / SAR / SAR AHB HOB Files / ALL_Features.000
GP No.: 022600007E8F0001
Charts Affected: 11356_1, 1116A_1, 11340_1, 411_1

Remarks:

[None]

Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12244/SAR/SAR AHB HOB Files/ALL_Features.000	022600007E8F0001	0.00	000.0	Primary

Hydrographer Recommendations

S-57 Data

Geo object 1: Cartographic symbol ($CSYMB)
Attributes: NINFOM - Delete

Office Notes

SAR: No evidence of feature was found in 200%SSS with concurent skunk stripe MBES

Compilation: Concur. Delete offshore platform

1.10) Delete Charted offshore platform. Add present survey offshore platform.

Survey Summary

Survey Position: 28° 58' 42.9" N, 090° 56' 47.1" W
Least Depth: [None]
TPU (±1.96σ): **THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp: 2010-213.00:00:00.000 (08/01/2010)
GP Dataset: AHB_H12244 / SAR / SAR AHB HOB Files / ALL_Features.000
GP No.: 022600007E880001
Charts Affected: 11356_1, 1116A_1, 11340_1, 411_1

Remarks:
SS 64#1

Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12244/SAR/SAR AHB HOB Files/ALL_Features.000	022600007E880001	0.00	000.0	Primary

Hydrographer Recommendations

S-57 Data

Geo object 1: Offshore platform (OFSPLF)
Attributes: NINFOM - Chart
OBJNAM - SS 64#1
SORDAT - 20100801
SORIND - US,US,graph,H12244

Office Notes

SAR: Feature was verified with 200%SSS NAD83 zone 15N at 28-58-42.916N, 090-56.47.066W.

Compilation. Concur. Delete Charted offshore platform. Add present survey offshore platform.

Feature Images

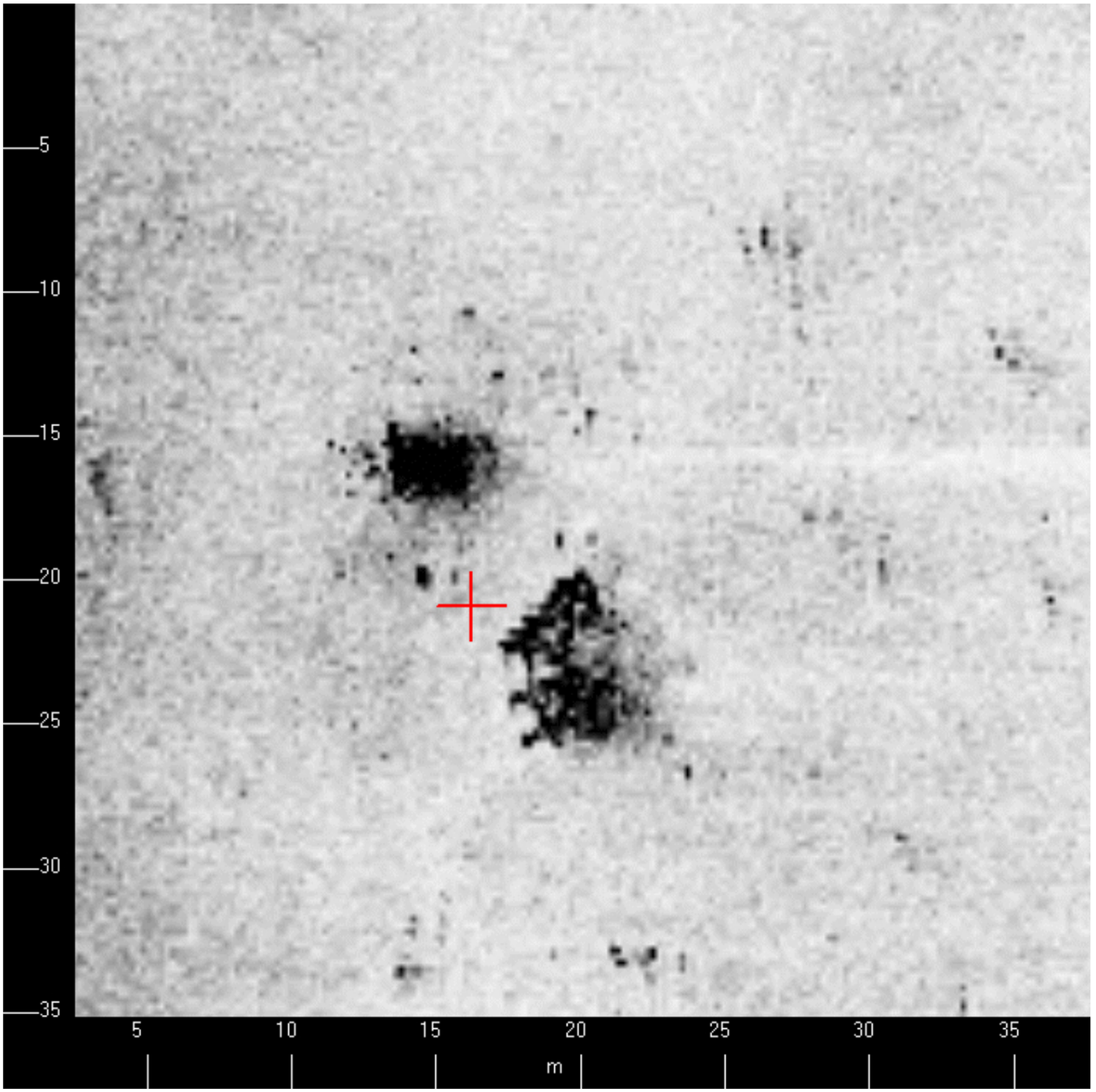


Figure 1.10.1

1.11) Delete offshore platform

Survey Summary

Survey Position: 28° 58' 58.8" N, 090° 56' 37.8" W
Least Depth: [None]
TPU (±1.96σ): **THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp: 1981-001.00:00:00.000 (01/01/1981)
GP Dataset: AHB_H12244 / SAR / SAR AHB HOB Files / ALL_Features.000
GP No.: 022600007E8D0001
Charts Affected: 11356_1, 1116A_1, 11340_1, 411_1

Remarks:
[None]

Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12244/SAR/SAR AHB HOB Files/ALL_Features.000	022600007E8D0001	0.00	000.0	Primary

Hydrographer Recommendations

S-57 Data

Geo object 1: Cartographic symbol ($CSYMB)
Attributes: NINFOM - Delete

Office Notes

SAR: No evidence of feature in 200%SSS with concurent skunk stripe MBES

Compilation: Concur. Delete offshore platform

1.12) Delete Charted offshore platform. Add present survey offshore platform.

Survey Summary

Survey Position: 28° 59' 11.6" N, 090° 56' 35.7" W
Least Depth: [None]
TPU (±1.96σ): **THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp: 2010-213.00:00:00.000 (08/01/2010)
GP Dataset: AHB_H12244 / SAR / SAR AHB HOB Files / ALL_Features.000
GP No.: 022600007E840001
Charts Affected: 11356_1, 1116A_1, 11340_1, 411_1

Remarks:
SS 63#10

Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12244/SAR/SAR AHB HOB Files/ALL_Features.000	022600007E840001	0.00	000.0	Primary

Hydrographer Recommendations

S-57 Data

Geo object 1: Offshore platform (OFSPLF)
Attributes: NINFOM - Chart
OBJNAM - SS 63#10
SORDAT - 20100801
SORIND - US,US,graph,H12244

Office Notes

SAR: Feature was verified with 200%SSS NAD83 zone 15N at 28-59-11.571N, 090-56-35.668WCompilation:

Compilation: Concur. Delete Charted offshore platform. Add present survey offshore platform.

Feature Images

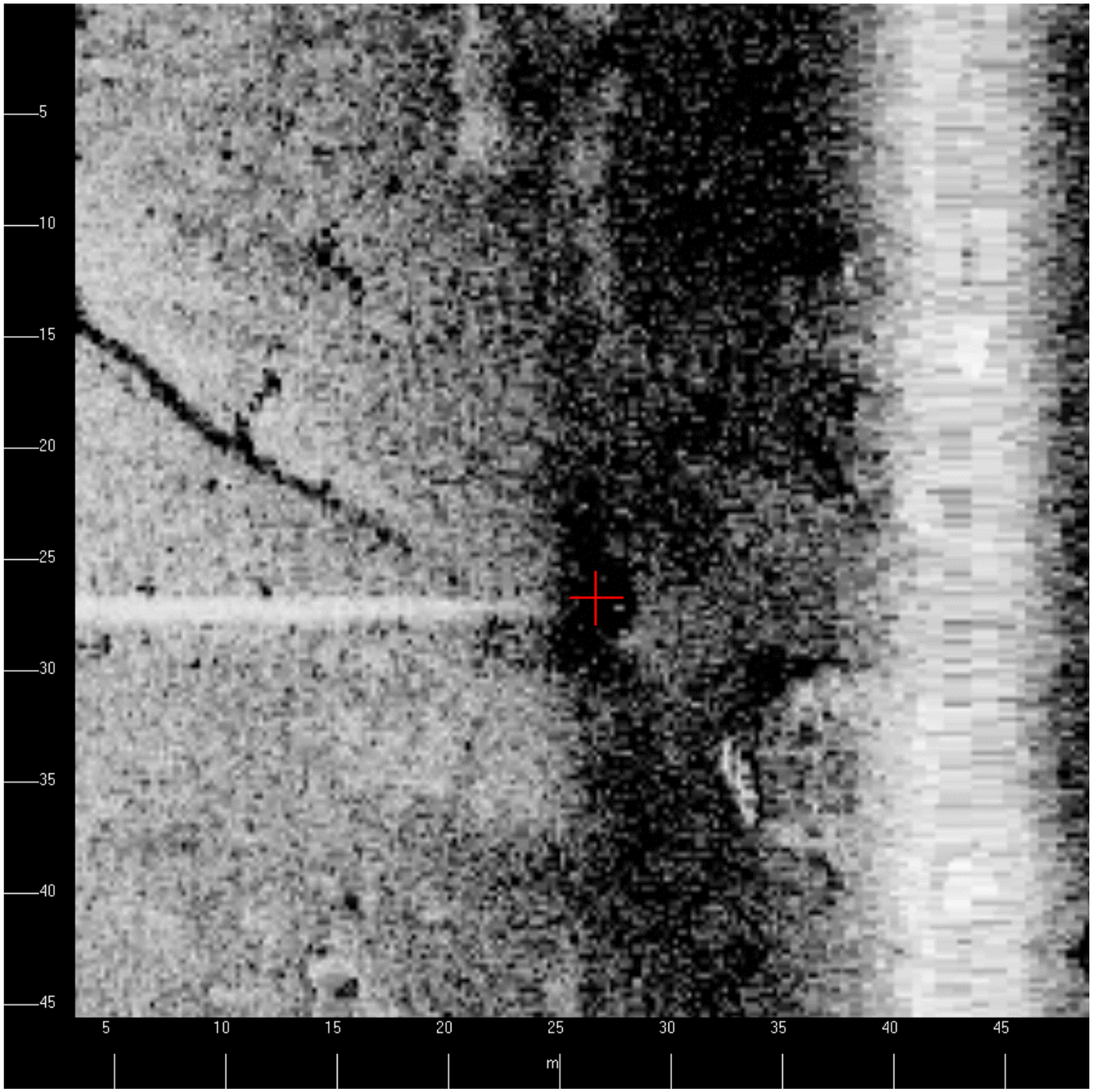


Figure 1.12.1

H12244_UnCharted Item Report

Registry Number: H12244
State: Louisiana
Locality: Gulf of Mexico
Sub-locality: 5 NM SE of Racoon Point
Project Number: OPR-K354-KR10
Survey Date: 08/01/2010

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11356	38th	06/01/2008	1:80,000 (11356_1)	USCG LNM: 6/21/2011 (6/21/2011) NGA NTM: 10/16/2010 (6/25/2011)
11340	73rd	08/01/2008	1:458,596 (11340_1)	[L]NTM: ?
1116A	73rd	08/01/2008	1:458,596 (1116A_1)	[L]NTM: ?
411	52nd	09/01/2007	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	Add offshore platform	GP	[None]	28° 58' 24.5" N	090° 57' 08.5" W	---
1.2	Add offshore platform	GP	[None]	28° 58' 13.1" N	090° 53' 13.2" W	---

1 - DR_UnCharted

1.1) Add offshore platform

Survey Summary

Survey Position: 28° 58' 24.5" N, 090° 57' 08.5" W

Least Depth: [None]

TPU (±1.96σ): **THU (TPEh)** [None] ; **TVU (TPEv)** [None]

Timestamp: 2010-213.00:00:00.000 (08/01/2010)

GP Dataset: AHB_H12244 / SAR / SAR AHB HOB Files / ALL_Features.000

GP No.: 022600007E890001

Charts Affected: 11356_1, 1116A_1, 11340_1, 411_1

Remarks:

No visible name

Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12244/SAR/SAR AHB HOB Files/ALL_Features.000	022600007E890001	0.00	000.0	Primary

Hydrographer Recommendations

S-57 Data

Geo object 1: Offshore platform (OFSPLF)

Attributes: NINFOM - Chart

OBJNAM - No visible name

SORDAT - 20100801

SORIND - US,US,graph,H12244

Office Notes

SAR: Feature was verified with 200%SSS NAD83 zone 15N at 28-58-24.500N, 090-57-08.512W.

Compilation: Concur. Add offshore platform

Feature Images

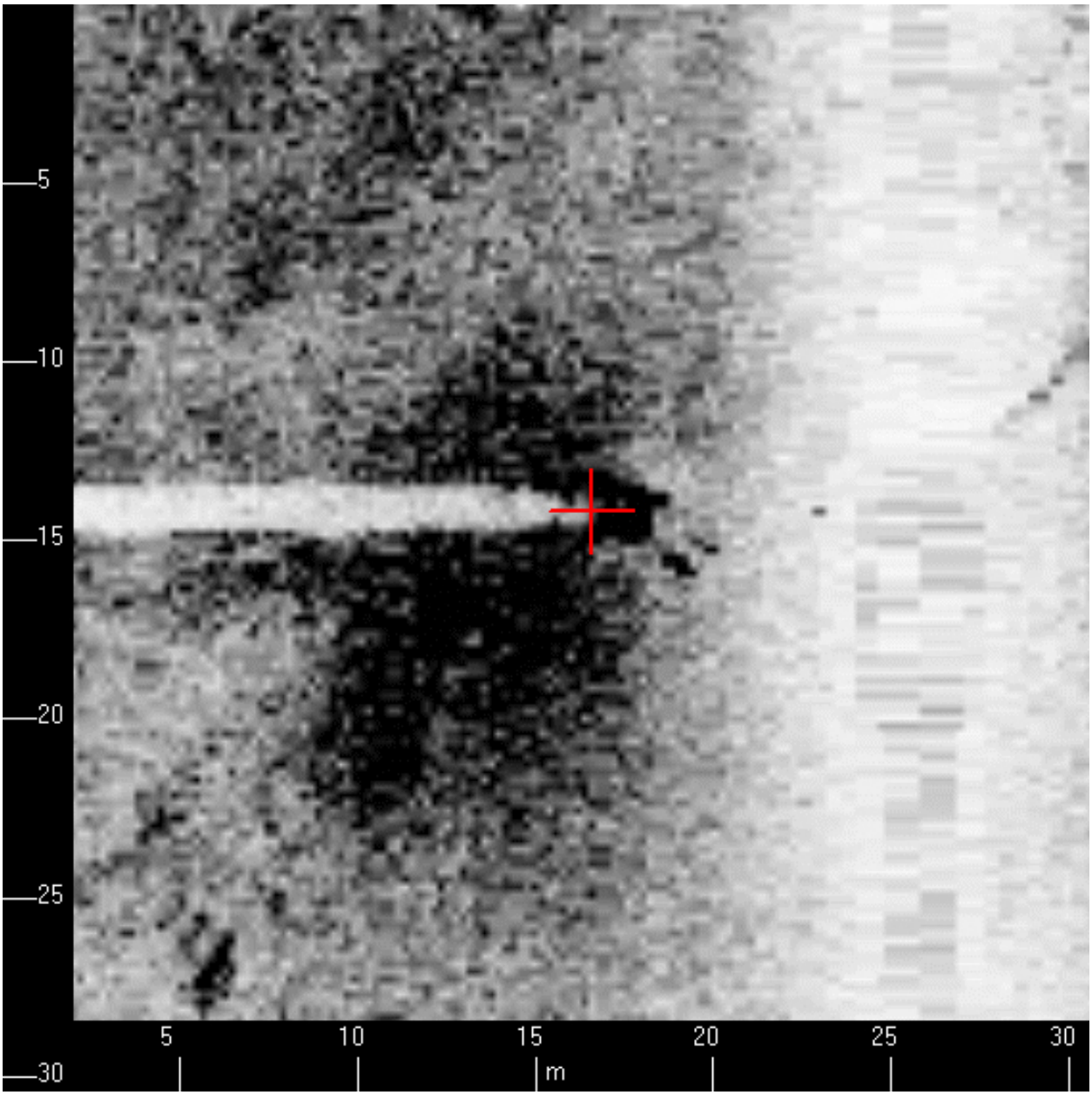


Figure 1.1.1

1.2) Add offshore platform

Survey Summary

Survey Position: 28° 58' 13.1" N, 090° 53' 13.2" W

Least Depth: [None]

TPU (±1.96σ): **THU (TPEh)** [None] ; **TVU (TPEv)** [None]

Timestamp: 2010-213.00:00:00.000 (08/01/2010)

GP Dataset: AHB_H12244 / SAR / SAR AHB HOB Files / ALL_Features.000

GP No.: 022600007E8A0001

Charts Affected: 11356_1, 1116A_1, 11340_1, 411_1

Remarks:

Prod SS 70

Feature Correlation

Address	Feature	Range	Azimuth	Status
AHB_H12244/SAR/SAR AHB HOB Files/ALL_Features.000	022600007E8A0001	0.00	000.0	Primary

Hydrographer Recommendations

S-57 Data

Geo object 1: Offshore platform (OFSPLF)

Attributes: NINFOM - Chart

OBJNAM - SS 70

SORDAT - 20100801

SORIND - US,US,graph,H12244

Office Notes

SAR: Feature was verified with 200%SSS NAD83 zone 15N at 28-58-13.092N, 090-53-13.242W.

Compilation: Concur. Add offshore platform

Feature Images

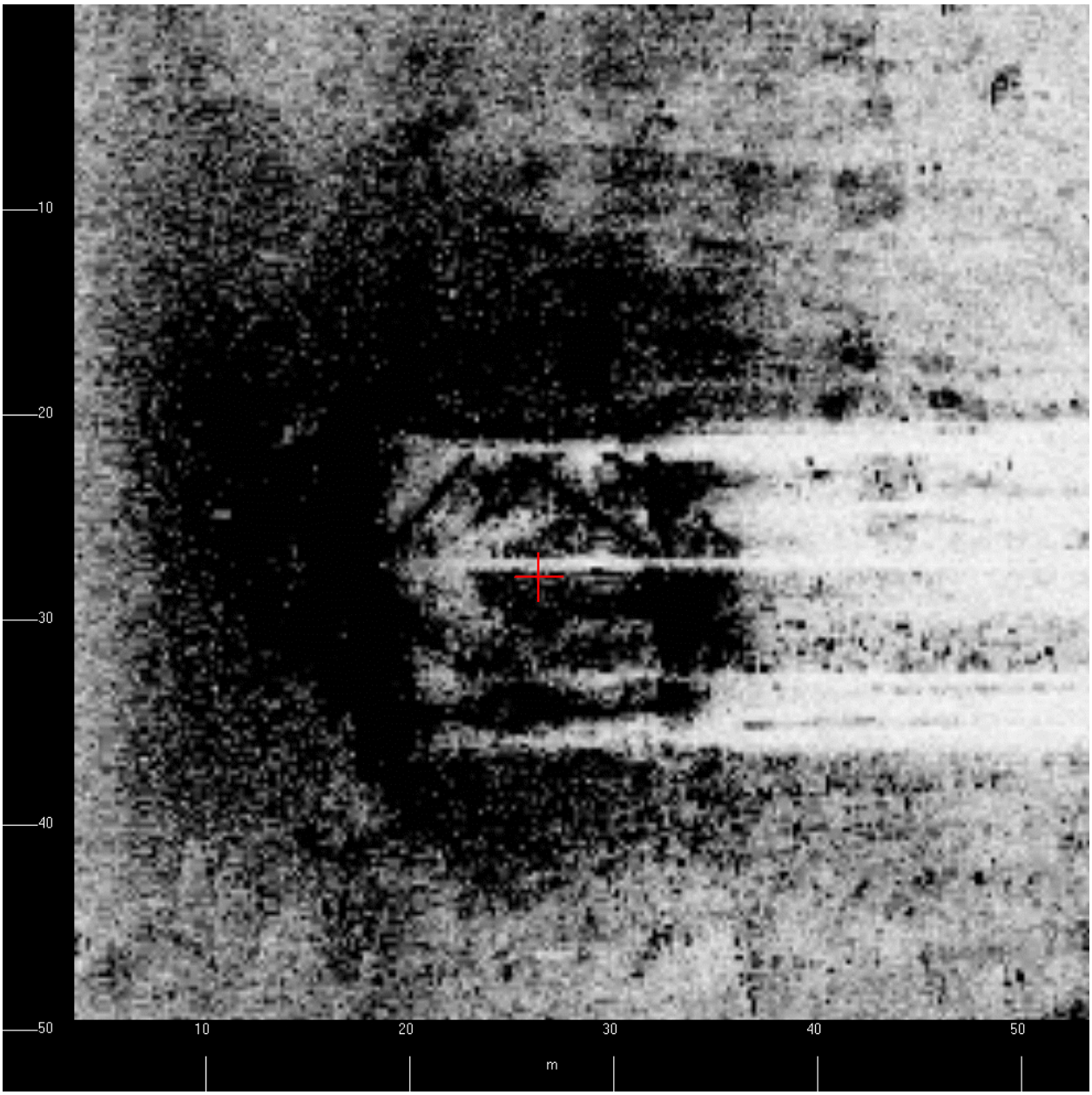


Figure 1.2.1

H12244_Bottom Sample Report

Registry Number: H12244
State: Louisiana
Locality: Gulf of Mexico
Sub-locality: 5 NM SE of Racoon Point
Project Number: OPR-K354-KR10
Survey Date: 01/01/2006

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11356	38th	06/01/2008	1:80,000 (11356_1)	USCG LNM: 6/21/2011 (6/21/2011) NGA NTM: 10/16/2010 (6/25/2011)
11340	73rd	08/01/2008	1:458,596 (11340_1)	[L]NTM: ?
1116A	73rd	08/01/2008	1:458,596 (1116A_1)	[L]NTM: ?
411	52nd	09/01/2007	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	Retain seabed characteristic	GP	[None]	29° 00' 06.5" N	090° 57' 24.7" W	---
1.2	Retain seabed characteristic	GP	[None]	28° 58' 22.1" N	090° 55' 49.0" W	---

1 - Bottom Samples

1.1) Retain seabed characteristic

Survey Summary

Survey Position: 29° 00' 06.5" N, 090° 57' 24.7" W

Least Depth: [None]

TPU (±1.96σ): **THU (TPEh)** [None] ; **TVU (TPEv)** [None]

Timestamp: 2006-001.00:00:00.000 (01/01/2006)

GP Dataset: COMPILE / Working / HOB's / ENC BS.000

GP No.: 02260005E6E20001

Charts Affected: 11356_1, 1116A_1, 11340_1, 411_1

Remarks:

[None]

Feature Correlation

Address	Feature	Range	Azimuth	Status
COMPILE/Working/HOB's/ENC BS.000	02260005E6E20001	0.00	000.0	Primary

Hydrographer Recommendations

[None]

S-57 Data

Geo object 1: Seabed area (SBDARE)

Attributes: NATQUA - 10:hard

NINFOM - Retain seabed characteristic

SORDAT - 20060100

SORIND - US,US,graph,chart 11356

Office Notes

Compilation: Retain seabed characteristic

1.2) Retain seabed characteristic

Survey Summary

Survey Position: 28° 58' 22.1" N, 090° 55' 49.0" W

Least Depth: [None]

TPU (±1.96σ): **THU (TPEh)** [None] ; **TVU (TPEv)** [None]

Timestamp: 2006-001.00:00:00.000 (01/01/2006)

GP Dataset: COMPILE / Working / HOB's / ENC BS.000

GP No.: 02260005E6E10001

Charts Affected: 11356_1, 1116A_1, 11340_1, 411_1

Remarks:

[None]

Feature Correlation

Address	Feature	Range	Azimuth	Status
COMPILE/Working/HOB's/ENC BS.000	02260005E6E10001	0.00	000.0	Primary

Hydrographer Recommendations

[None]

S-57 Data

Geo object 1: Seabed area (SBDARE)

Attributes: NATSUR - 1:mud

NINFOM - Retain seabed characteristic

SORDAT - 20060100

SORIND - US,US,graph,chart 11356

Office Notes

Compilation: Retain seabed characteristic

APPENDIX III

FINAL PROGRESS SKETCH

No Progress Sketch submitted by the field.

APPENDIX IV

TIDES AND WATER LEVELS

The tidal data applied to all multibeam echo sounder data was downloaded from the following website:

http://tidesandcurrents.noaa.gov/station_retrieve.shtml?type=Historic%20Tide%20Data&state=Louisiana&id1=876

ABSTRACT OF TIMES OF HYDROGRAPHY

Project: OPR-K354-KR-10
Contractor Name: C & C Technologies, Inc.
Inclusive Dates: June 22, 2010 - August 1, 2010
Registry No.: H12244
Date: December 2010
Sheet Number: 2
Field Work is Complete
Time (UTC)

Date	Julian Day	Start	End	Year
6/22/2010	173	1044	2045	2010
6/24/2010	175	0420	2400	2010
6/25/2010	176	0000	1922	2010
7/12/2010	193	0929	2230	2010
7/31/2010	212	1010	1142	2010
7/31/2010	212	1631	1636	2010
7/31/2010	212	1759	2227	2010
8/1/2010	213	0300	1521	2010

APPENDIX V

SUPPLEMENTAL SURVEY RECORDS AND CORRESPONDENCE

Subject: Fwd: Re: Draft policy on elevated pipelines
From: "CDR Rick Brennan, NOAA" <Richard.T.Brennan@noaa.gov>
Date: Thu, 28 Jul 2011 20:29:23 -0400
To: James Miller <James.J.Miller@noaa.gov>, Edward Owens <Edward.Owens@noaa.gov>, 'Gene Parker' <Castle.E.Parker@noaa.gov>

My comments from way-back-when...

-------- Original Message --------
Subject: Re: Draft policy on elevated pipelines
Date: Mon, 19 Apr 2010 17:14:46 -0400
From:LCDR Rick Brennan, NOAA <Richard.T.Brennan@noaa.gov>
To: Doug Baird <Doug.Baird@noaa.gov>, Jeffrey Ferguson <Jeffrey.Ferguson@noaa.gov>, Mike Brown <Mike.Brown@noaa.gov>, "John.Nyberg" <John.Nyberg@noaa.gov>, "'howard.danley@noaa.gov'" <Howard.Danley@noaa.gov>, Ed Martin <Ed.Martin@noaa.gov>

Doug,

Edits are in-line in the attached document.

Rick

Doug Baird wrote:

> For your comments. If the linear dimensions of the pipeline cause format problems with the DTON reporting, we may end up using a different mechanism for reporting hazardous pipelines.
>
> In the interest of moving this forward, and yet not being too onerous - please provide your suggestions by Monday, May 3rd.

--

LCDR Rick Brennan, NOAA
Chief, Atlantic Hydrographic Branch
439 West York Street
Norfolk, VA 23510
Office: 757-441-6746
Cell: 443-994-3301

Learn about "America's Seventh Service":
www.noaacorps.noaa.gov
Learn about NOAA's Office of Coast Survey:
www.nauticalcharts.noaa.gov

Elevated pipelines_draft_RTB_edits.docx	**Content-Type:**	application/vnd.openxmlformats-officedocument.wordprocessingml.document
	Content-Encoding:	base64

Policy text for Elevated pipelines deemed to be hazards to surface navigation

This policy does not address exposed pipelines that are close to the sediment. This policy will address pipelines that are significantly elevated from the bottom sediment and could pose a hazard to surface navigation. The definition of significant is the same as hydrographic survey object detection standards – i.e., greater than ~~2~~ 1 meters (~~6~~ 3 feet) off the bottom between the ~~to~~ depths of 0 and 20 meters (65 feet), then 10% off the ~~bottom~~ water depth ~~to the deeper range~~for depths deeper than 20 m.

In water depths between 4 meters (13 feet) and 40 meters (130 feet), pipelines that are elevated a significant height off the bottom and therefore pose a hazard to surface navigation, the in-house field unit (or processing branch if contracted field unit) that discovers the pipeline is to contact the relevant Coast Survey Navigation Manager with the appropriate information regarding the elevated pipeline. The Nav Manager is to then contact the relevant regulatory authority for that region (e.g., USACE or MMS) and inform them of the hazardous situation regarding the noted pipeline. Coast Survey expects the regulatory authority to alert the permitted owner of the noted pipeline and require the owner to bury the pipeline as dictated by the terms of the permit.

After a period of ~~30~~ 15 calendar days, and no longer than ~~45~~ 30 calendar days, from initial contact with the Nav Manager, the Nav Manager is to inform the processing branch of the status of the reburial effort. If positive effect of reburial has occurred or is anticipated within a reasonably short time frame, then the processing branch should ensure that the pipeline is adequately charted. If positive effect of reburial has not occurred or is not expected, the processing branch should then forward a Danger to Navigation message to the following e-mail address ocs.ndb@noaa.gov. The DTON message should include the least depth of the pipeline, the geographic coordinates for the length of the elevated pipeline section(s), and any relevant information regarding ownership, permit issued, etc. that was learned from the Nav Managers interaction with the regulatory authority and/or pipeline owner.

MCD will then chart the DTON as an obstruction (least depth known), linear obstruction with caution area, or other symbol as appropriate to the size of the elevated pipeline section and scale of the chart and requirements of the chart product. After MCD has charted the DTON obstruction, the navigation manager shall continue to contact the USACE, MMS, or the pipeline owner periodically until it has been established that the pipeline has been reburied or that reburial will not take place.

Comment [r1]: The entire time we have to review a survey is (technically) 21 days. I don't want to make this time longer than the time the survey should be in our system.

Comment [r2]: I believe we currently tell the ACOE that if they will be removing the DTON within 2 weeks we will hold off on submitting the DTON. If longer than this, we will move forward with publishing the DTON.

It also seems that there should be some burden of proof provided by the owner that the pipeline has been serviced as expected. I don't think we should just take them at their word.

Subject: H12244 DtoN #1 24ft Obstn AHB to MCD Submission
From: Gene Parker <Castle.E.Parker@noaa.gov>
Date: Fri, 10 Dec 2010 17:18:13 -0500
To: OCS NDB <OCS.NDB@noaa.gov>, James M Crocker <James.M.Crocker@noaa.gov>
CC: Richard T Brennan <Richard.T.Brennan@noaa.gov>, Kolleen Mckenzie <Kolleen.Mckenzie@noaa.gov>, Tim Osborn <Tim.Osborn@noaa.gov>, John Baker <john.baker@cctechnol.com>, Howard Danley <Howard.Danley@noaa.gov>, Kathleen Jamison <Kathleen.Jamison@noaa.gov>

Good Day,

Please find attached a zip file for survey H12244 DtoN #01 24ft Obstn , for submission to Marine Chart Division (MCD).

The contents of the attached WinZip file were generated at Atlantic Hydrographic Branch.The original DtoN submission sourced from C&C Technologies. The attached zip file contains a DtoN Letter (PDF) and a Pydro XML file.

If you have any questions, please direct them back to me; email or call 757-441-6746, Ext. 108.

Thank you for your assistance with this matter,
Gene Parker

Castle Eugene Parker <castle.e.parker@noaa.gov>
Physical Scientist - Hydrographic Team Lead
Atlantic Hydrographic Branch
NOAA Office of Coast Survey

H12244_DtoN#1_24ftObstn.zip	**Content-Type:** application/x-zip-compressed **Content-Encoding:** base64

Subject: Danger to Navigation - H12244 Report #1
From: "ocs.ndb" <OCS.NDB@noaa.gov>
Date: Wed, 15 Dec 2010 11:49:23 -0500
To: Travis Newman <Travis.Newman@noaa.gov>, Tara Wallace <Tara.Wallace@noaa.gov>, Robert Ramsey <Robert.Ramsey@noaa.gov>, Richard T Brennan <Richard.T.Brennan@noaa.gov>, OCS NDB <OCS.NDB@noaa.gov>, Michael Gaeta <Michael.Gaeta@noaa.gov>, Mark Griffin <Mark.Griffin@noaa.gov>, Kevin Shaw <Kevin.Shaw@noaa.gov>, Ken Forster <Ken.Forster@noaa.gov>, John Barber <John.Barber@noaa.gov>, James M Crocker <James.M.Crocker@noaa.gov>, Howard Danley <Howard.Danley@noaa.gov>, Gerald Koehl <Gerald.Koehl@noaa.gov>, Ed Martin <Ed.Martin@noaa.gov>, David Merke <David.Merke@noaa.gov>, Craig Winn <Craig.Winn@noaa.gov>, Castle E Parker <Castle.E.Parker@noaa.gov>, Andrew Kampia <Andrew.Kampia@noaa.gov>, Allen Taylor <Allen.Taylor@noaa.gov>, _NOS OCS NSD Coast Pilot <coast.pilot@noaa.gov>, Kolleen Mckenzie <Kolleen.Mckenzie@noaa.gov>, Tim Osborn <Tim.Osborn@noaa.gov>, john.baker@cctechnol.com, Kathleen Jamison <Kathleen.Jamison@noaa.gov>

L-1480/10 and DD-18996 have been registered by the Nautical Data Branch and directed to PBE for processing.

The DtoN reported is an obstruction in the Gulf of Mexico, LA, 5 NM southeast of Pacoon Point.

The following charts are affected:
11356 kapp 62
11340 kapp 49

The following ENCs are affected:
US4LA25M
US3GC03M
US2GC14M

References:
H-12244
OPR-K354_KR-10

This information was discovered by a NOAA contractor and was submitted by AHB.

-------- Original Message --------
Subject: H12244 DtoN #1 24ft Obstn AHB to MCD Submission
Date: Fri, 10 Dec 2010 17:18:13 -0500
From: Gene Parker <Castle.E.Parker@noaa.gov>
Organization: NOAA
To: OCS NDB <OCS.NDB@noaa.gov>, James M Crocker <James.M.Crocker@noaa.gov>
CC: Richard T Brennan <Richard.T.Brennan@noaa.gov>, Kolleen Mckenzie <Kolleen.Mckenzie@noaa.gov>, Tim Osborn <Tim.Osborn@noaa.gov>, John Baker <john.baker@cctechnol.com>, Howard Danley <Howard.Danley@noaa.gov>, Kathleen Jamison <Kathleen.Jamison@noaa.gov>

```
Good Day,

Please find attached a zip file for survey H12244 DtoN #01 24ft Obstn ,
for submission to Marine Chart Division (MCD).
```

The contents of the attached WinZip file were generated at Atlantic Hydrographic Branch.The original DtoN submission sourced from C&C Technologies. The attached zip file contains a DtoN Letter (PDF) and a Pydro XML file.

If you have any questions, please direct them back to me; email or call 757-441-6746, Ext. 108.

Thank you for your assistance with this matter,
Gene Parker

H12244_DtoN#1_24ftObstn.zip	**Content-Type:** application/x-zip-compressed **Content-Encoding:** base64

H12244 Danger to Navigation #1 24ft Obstn

Registry Number: H12244
State: Louisiana
Locality: Gulf of Mexico
Sub-locality: 5 NM SE of Pacoon Point
Project Number: OPR-K354_KR-10
Survey Date: 08/01/2010

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11356	38th	06/01/2008	1:80,000 (11356_1)	USCG LNM: 11/23/2010 (11/23/2010) NGA NTM: 10/16/2010 (12/4/2010)
11340	74th	08/01/2009	1:458,596 (11340_1)	USCG LNM: 11/23/2010 (11/23/2010) NGA NTM: 11/27/2010 (12/4/2010)
1116A	73rd	08/01/2008	1:458,596 (1116A_1)	[L]NTM: ?
411	52nd	09/01/2007	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	24ft Obstruction (pipe)	Obstruction	7.44 m	28° 51' 41.0" N	090° 58' 45.0" W	---

1 - Danger To Navigation

1.1) 24ft Obstruction (pipe)

DANGER TO NAVIGATION

Survey Summary

Survey Position:	28° 51' 41.0" N, 090° 58' 45.0" W
Least Depth:	7.44 m (= 24.41 ft = 4.069 fm = 4 fm 0.41 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2010-213.03:10:57.403 (08/01/2010)
GP Dataset:	Copy of H12244_DTON1.txt
GP No.:	1
Charts Affected:	11356_1, 1116A_1, 11340_1, 411_1

Remarks:

Least depth measurement of this item is 24.413 feet (7.44 meters) in charted 25 ft depths. After observed tide corrections, the surveyed depths in this area are 27 feet, meaning this feature protrudes approximately 2.5 feet above the sea floor. Imagery indicates the feature is a pipe that lies horizontal on the sea floor.

Feature Correlation

Address	Feature	Range	Azimuth	Status
Copy of H12244_DTON1.txt	1	0.00	000.0	Primary

Hydrographer Recommendations

Chart 24ft Obstn.

Cartographically-Rounded Depth (Affected Charts):

24ft (11356_1)

4fm (1116A_1, 11340_1, 411_1)

S-57 Data

Geo object 1:	Obstruction (OBSTRN)
Attributes:	INFORM - pipe lying horizontal on sea floor
	QUASOU - 6:least depth known
	SORDAT - 20100801
	SORIND - US,US,survy,H12244

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

VALSOU - 7.4410824 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

Office Notes

This dangersubmission is preliminary. No data has been provided to AHB for verification. Feature will be reviewed and verified once the survey data has been submitted.

Feature Images

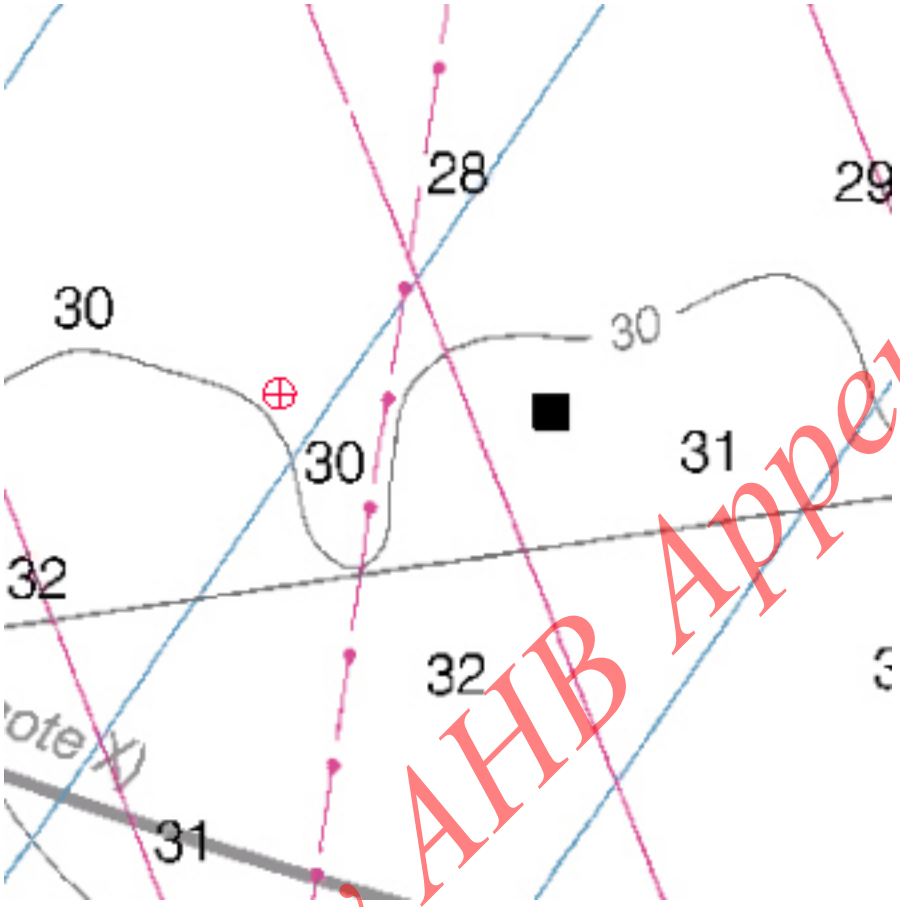
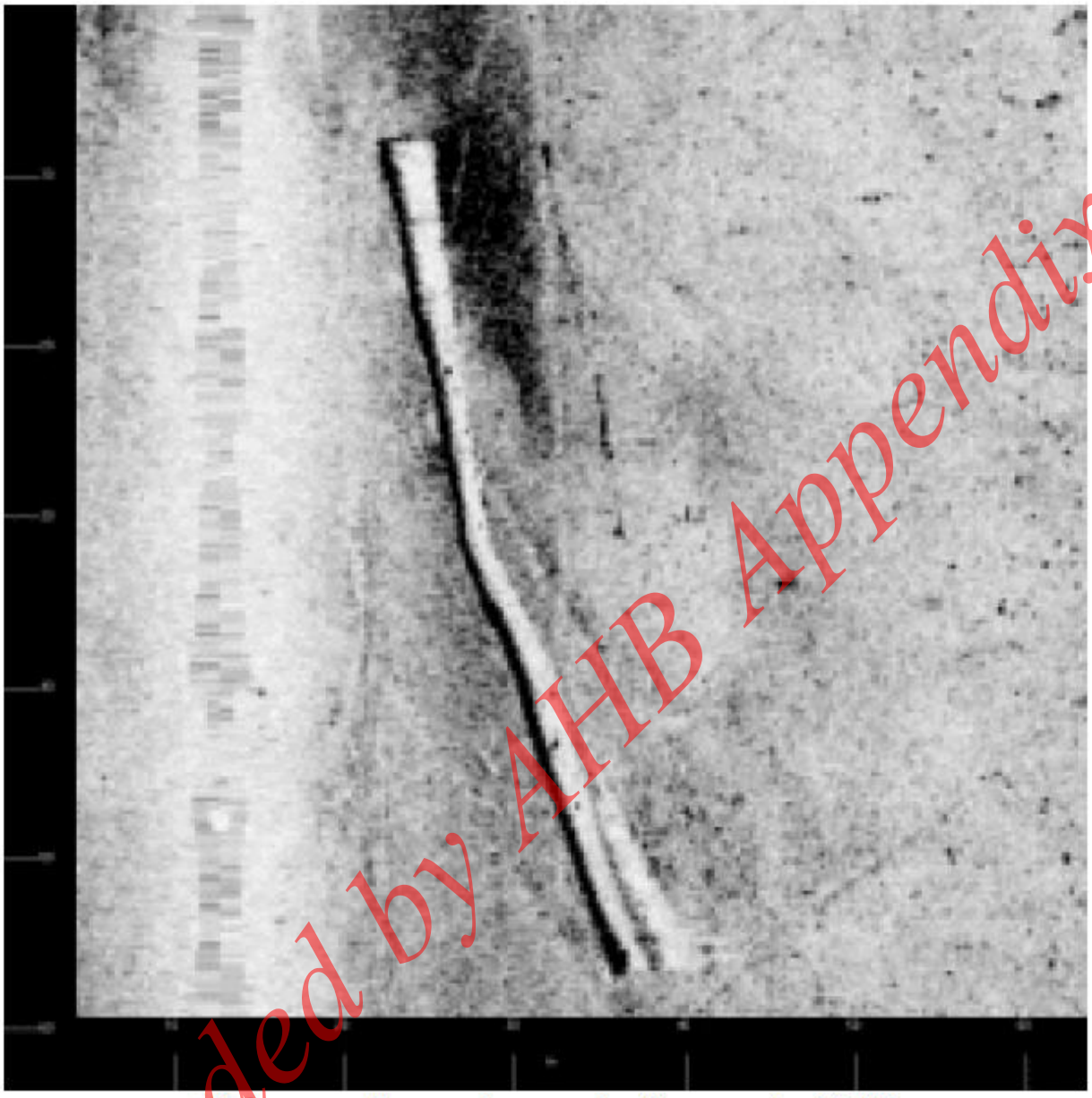
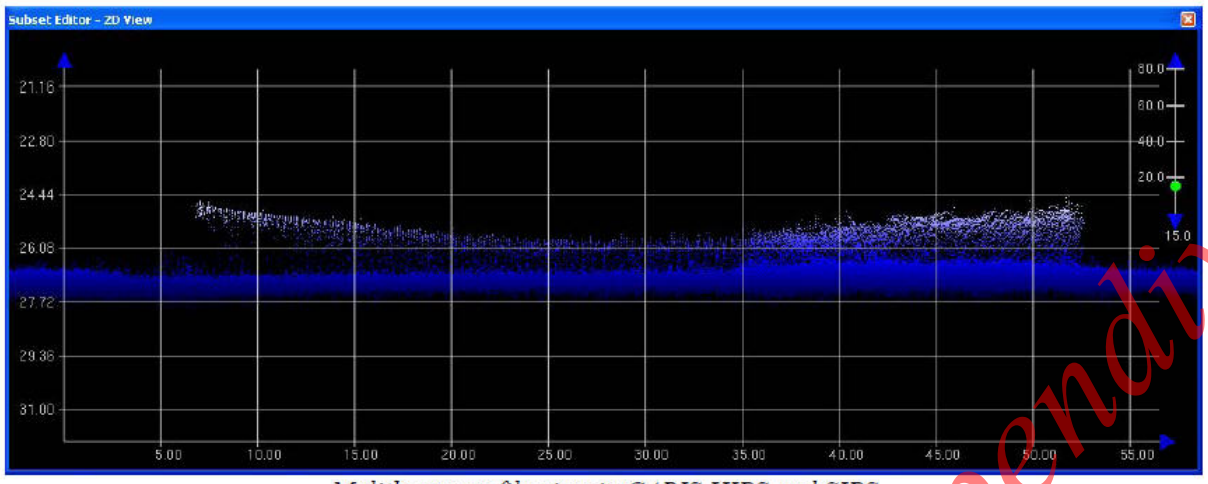


Figure 1.1.1



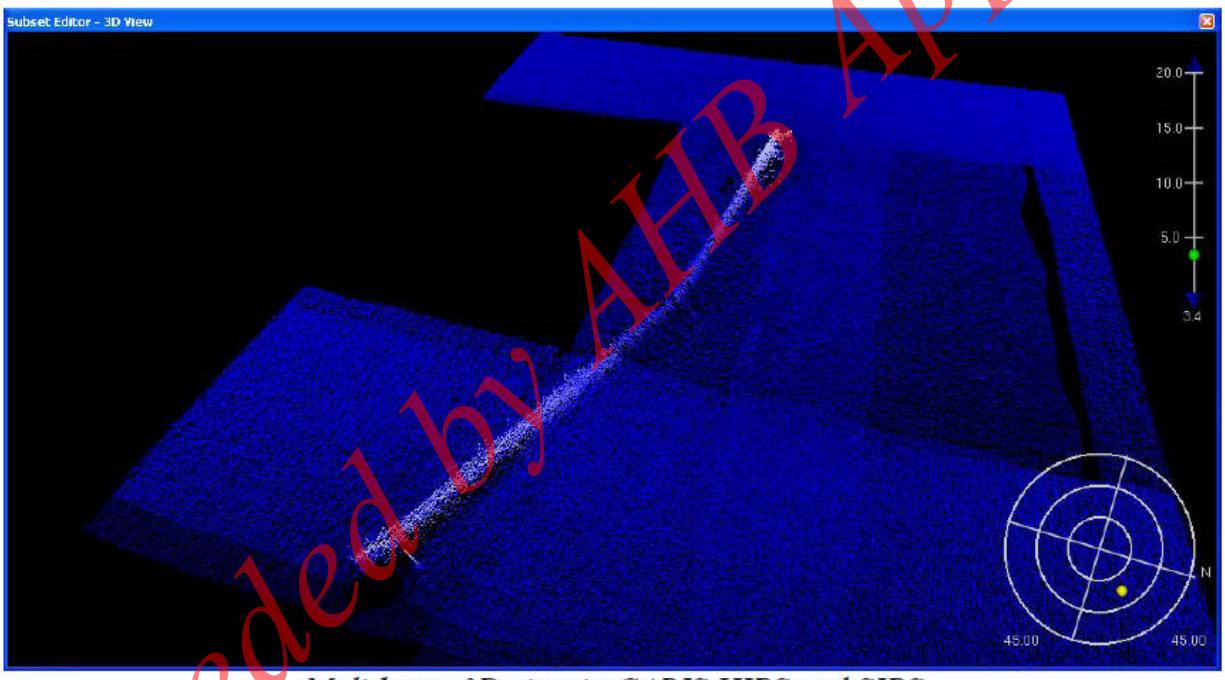
Sidescan Sonar image in Sonarwiz MAP

Figure 1.1.2



Mulitbeam profile view in CARIS HIPS and SIPS

Figure 1.1.3



Mulitbeam 3D view in CARIS HIPS and SIPS

Figure 1.1.4

AHB COMPILATION LOG

General Survey Information	
REGISTRY No.	H12244
PROJECT No.	OPR-K354-KR-10
FIELD UNIT	C&C TECHNOLOGIES
DATE OF SURVEY	20100622 - 20100801
LARGEST SCALE CHART	***11356, edition 38, 20080601, 1:80,000***
ADDITIONAL CHARTS	
SOUNDING UNITS	**FEET**
COMPILER	Deborah A. Bland

Source Grids	**File Name** V:\SAR_Queue\H12244_K354_CC\AHB_H12244\SAR Final Products
	H12244_Sub2_AHB_2m_Final.csar **H12244_Sub1_2m_Final.csar** **H12244_Developments_50cm_Final.csar**
Surfaces	**File Name** V:\SAR_Queue \H12244_K354_CC\AHB_H12244\COMPILE\Working
Combined	**H12244_4m_Combined_NEW.csar**
Interpolated TIN	\Interpolated TIN**H12244_12m_InterpTIN_NEW.csar**
Shifted Interpolated TIN	\Interpolated TIN\Shifted Surface**H12244_12m_InterpTIN_Shifted_NEW.csar**
Final HOBs	**File Name** V:\SAR_Queue \H12244_K354_CC\AHB_H12244\COMPILE\Final_Hobs
Survey Scale Soundings	**H12244_SS_Soundings.hob**
Chart Scale Soundings	**H12244_CS_Soundings.hob**
Contour Layer	**N/A**
Feature Layer	**H12244_Features.hob**
Meta-Objects Layer	**H12244_MetaObjects.hob**
Blue Notes	**H12244_BlueNotes.hob**

Meta-Objects Attribution	
Acronym	**Value**
M_COVR	
CATCOV	1 – coverage available
SORDAT	20100801
SORIND	US,US,graph,H12244
M_QUAL	
CATZOC	1 – zone of confidence A1
INFORM	M/V Inez McCall
POSACC	5.0 m
SORDAT	20100801
SORIND	US,US,graph,H12244
SUREND	20100801
SURSTA	20100622
DEPARE	
DRVALV 1	20.000 ft
DRVALV2	30.000 ft
SORDAT	20100801
SORIND	US,US,graph,H12244

SPECIFICATIONS:

I. COMBINED SURFACE:
- a. Number of SAR Final Grids: 3
- b. Resolution of Combined (m): 4 m

II. SURVEY SCALE SOUNDINGS (SS):
- a. Attribute Name: Depth
- b. Selection criteria: Radius, Shoal bias
- c. Radius value is: mm at map scale (80k)
  - i. Use single-defined radius: 1.0
  - ii. And/Or use radius table file: [*XXk = chart scale*]
- d. Queried Depth of All Soundings
  - i. Minimum: 6.477 m
  - ii. Maximum: 9.0936 m

III. INTERPOLATED TIN SURFACE:
- a. Resolution (m): 12 m
- b. Interpolation method: Natural Neighbor
- c. Shift value: -0.75ft [*only include applicable shift values*] [*-0.75 feet* (And/Or) *-0.75 fathoms*]

IV. CONTOURS:
- a. Attribute Name: Depth
- b. Use a Depth List: H12244_depth_contours.txt
- c. Output Options: Create contour lines
  - i. Line Object: DEPCNT
  - ii. Value Attribute: VALDCO

V. FEATURES:
- a. Number of Chart Features: 11 [*all features included in H-Cell*]
- b. Number of Non-Chart Features: 3 [*all features submitted by field & not included in H-Cell*]

VI. CHART SURVEY SOUNDINGS (CS):
- a. Number of ENC CS Soundings: 34
- b. Attribute Name: Depth
- c. Selection criteria: Radius, Shoal bias
- d. Radius value is: Distance on the ground (m)
  - i. Use single-defined radius: N/A
  - **ii.** And/Or use radius table file: **[*XXk = chart scale*]**
- e. Number Survey CS Soundings: 40

VII. NOTES: