H11305

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey: **Hydrographic**

Field No.: Sheet B

Registry Number: **H11305**

LOCALITY

State: Alabama

General Locality: Mobile Bay

Sub-locality: Mobile Point

2004-2007

CHIEF OF PARTY

Mark McMann, NRT-1

LIBRARY & ARCHIVES

DATE:

NOAA FORM 77-28 (11-72) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	REGISTRY NUMBER:
HYDROGRAPHIC TITLE SHEET	**H11305**

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:	**Alabama**		
General Locality:	**Mobile Bay**		
Sub-Locality:	**Entrance to Mobile Bay**		
Scale:	**1:10,000**	Date of Survey:	**03/12/04 to 09/27/07**
Instructions Dated:	**06/09/04**	Project Number:	**OPR-J373 –NRT1-04**
Vessel:	**NOAA S1211**		
Chiefs of Party:	**Mark McMann, NOAA**		
Surveyed by:	**MJM, EAL, IW, LTP, SP**		
Soundings by:	**VB echo sounder.**		
Graphic record scaled by:	**N/A**		
Graphic record checked by:	**N/A**		
Protracted by:	**N/A**	Automated Plot:	**N/A**
Verification by:	***Atlantic Hydrographic Branch Personnel***		
Soundings in:	~~**Meters**~~ ***Feet*** **at MLLW**		

Red, Bold, Italic notes in the Descriptive Report were made during Office Processing.

Remarks:

1) All Times are in UTC.
2) This is a Navigable Area Hydrographic Survey 200% Side Scan Sonar coverage.
3) Projection is UTM Zone 16.

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DESCRIPTIVE REPORT

to accompany
Basic Hydrographic Survey H11305
OPR-J373-NRT1-04

Year of Survey: 2004-2006
Navigation Response Team 1
NOAA Launch S1211
Mark McMann - Team Leader

A. AREA SURVEYED

This Basic Hydrographic Survey was conducted in accordance with the Project Letter Instructions* for project OPR-J373-NRT1-04, Mobile Bay, Alabama. The instructions are dated June 9, 2004. ***Concur.***

Mobile Bay is a major port in the Gulf of Mexico and listed as the 17th largest port in the United States, by cargo value, as identified in the 1999 NSD plan. It is also listed as a priority port for chart evaluation by the NOS' Marine Chart Division. Constituents have recently requested, through the NSD's Navigation Manager, surveys of the approaches to Mobile Bay and the GIWW in the area. In addition MCD has identified Mobile Bay as a priority in 2004 for the Coastal Shoreline Change Analysis Program.

The area surveyed by NRT1, consisted of approximately 7.0 square nautical miles (SNM) of Mobile Bay in the entrance to Mobile Bay. Both singlebeam echosounder and side scan sonar were acquired within the survey limits, wherever possible. ***Concur.***

Survey Limits for Sheet B, H11305 are as follows:

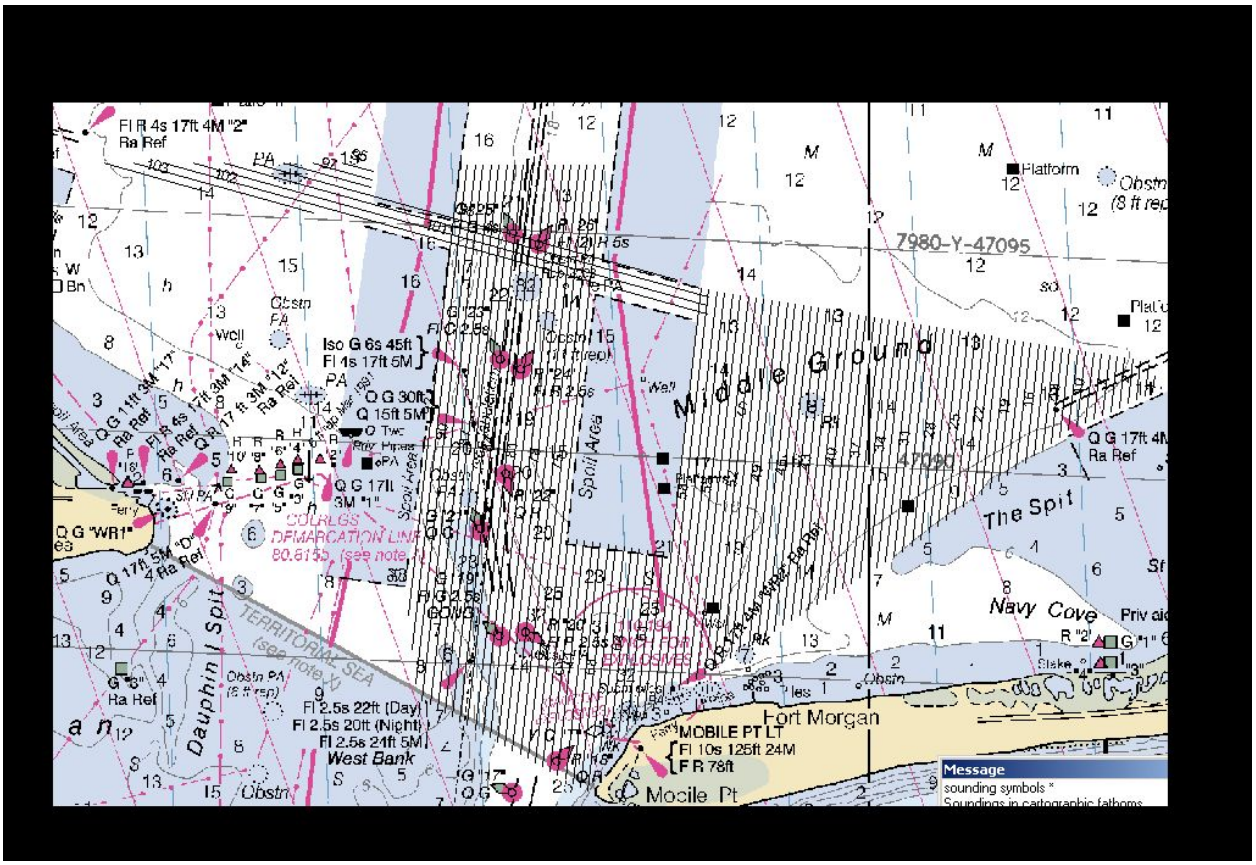
30°13'25" N 87°58'11" W
30°16'54" N 88°04'57" W

Survey Dates: March 12, 2004 (DN: 071) to September 27, 2007 (DN: 270).

Data acquisition on this survey was interrupted by hurricanes Ivan, Dennis, Katrina, Rita and Wilma. Primary main scheme coverage was completed prior to Ivan and check sounding lines were performed after Ivan and Katrina to ensure sounding accuracy subsequent to the storms. The others storms required response work by NRT-1 that prevented completion of this survey. There have also been approximately 11 different people involved in the processing of this survey accounting for over 300% turnover in NRT-1 personnel.

Filed with original field records.

Survey limits are displayed graphically:



B. DATA ACQUISITION AND PROCESSING ***See also Evaluation Report.***

B.1. EQUIPMENT

Data were acquired by Navigation Response Team 1 using survey Launch 1211. The vessel was configured as described in the Data Acquisition and Processing Report (DAPR). Major data acquisition systems are summarized below.

NOAA Survey Launch 1211 was used to acquire position, sounding, imagery, and sound velocity data. Positions were acquired with a Trimble DSM212L Differential GPS (DGPS) beacon receiver. Soundings were acquired with an Innerspace 464 singlebeam echosounder and an ODOM CVX2 single-beam echosounder (SBES) system. Imagery was acquired with a stern-towed KLEIN 3000 side scan sonar (SSS) system. Water column sound velocity data was acquired with a SeaBird Seacat 19 and an ODOM Digibar Pro DB1200 sound velocity profiler. ***Concur.***

B.2. QUALITY CONTROL

The integrity of the survey data for H11305 was insured by following the Field Procedures Manual v2.1*, dated May, 2006, and the NOS Hydrographic Surveys Specifications and Deliverables Manual*, dated June, 2006.

Differential GPS (DGPS) was used for all hydrographic data acquired on this survey.

Side Scan Sonar

The side scan sonar system frequencies used were 100kHz and 500kHz. The recorder was set to 50 meter range. There were no water depths greater than 35 meters in areas where side scan data was collected.

Daily confidence checks were conducted by observing side scan imagery in the vicinity of known contacts, such as buoys or sand waves. Side scan data were considered satisfactory if these contacts could be distinguished throughout the entire range of the side scan trace. The confidence checks were performed daily at both frequencies. Coverage of 200% was obtained wherever possible in the required survey areas and where water depth and/or hazards permitted. Side scan sonar coverage was conducted to the 12-foot depth curve where possible.

All side scan contacts were selected during processing in CARIS. Only contacts that could be positively identified while underway (ATONS, piles, platforms, other visible features) were selected in Sonarpro to facilitate their identification while processing. Any contacts, which were.determined to be significant, were developed using SBES. ***Concur.***

Filed digitally @ AHB

Crosslines

Crosslines were collected in a zig-zag pattern over the length of the project area. A total of 41.1 linear nautical miles (LNM) of crosslines were acquired by the field party. This is approximately 13 percent of mainscheme acquisition (321.0 LNM). A visual inspection of crossline data and main scheme data showed good comparison. ***Concur.***

Junctions

No junctioning surveys were provided for comparison with this project. ***Concur with clarification, H11305 junctions with H11306 of the same project to the East, H11307 to the North, and H11625 to the northeast. Junction analysis will be performed during office processing of H11306 & H11307.***

B.3. CORRECTIONS TO ECHO SOUNDING

Echosounder data were corrected for sound velocity using the methods defined in the DAPR. A list of sound velocity profiles (SVP) can be found in the Daily Acquisition Log, located in the Separates directory*. SVPs have also been added to the Pydro PSS for this project.

C. VERTICAL AND HORIZONTAL CONTROL

C.1. VERTICAL CONTROL *(See also Evaluation Report).*

All soundings were reduced to Mean Lower Low Water (MLLW) with preliminary observed water levels and preliminary zoning.

The operating water level station at Dauphin Island (873-5180) provided water level reducers for this project.

Verified water levels from the Tides & Currents website (http://tidesandcurrents.noaa.gov/olddata/) were downloaded and applied to all soundings for this sheet. Water level corrections were applied to the soundings using CARIS HIPS and SIPS v6.1.

Zoning was provided on the project CD.

A Request for Approved Water Levels letter was sent to N/OPS1 on April 26, 2007 and is included in Appendix IV. Approved Water Levels were received by the NRT and the approved water levels were reapplied in CARIS. ***Concur with clarification; Preliminary water levels for H11305 were superseded by Final water levels.***

****Filed with original field records.***

C.2. HORIZONTAL CONTROL

The horizontal datum used for this survey is the North American Datum (NAD83), projected using UTM zone 16. The control reference station used for this survey was the USCG DGPS Beacon in the auto-select mode.

Horizontal dilution of precision (HDOP) was monitored daily on Hypack. At no point did HDOP exceed 4.00, and adequate satellite coverage was maintained throughout the survey period.

All positioning equipment was operated in a manner consistent with the manufacturer requirements and as described in the DAPR*. There were no equipment malfunctions which affected the positional quality of the data. ***Concur.***

D. RESULTS AND RECOMMENDATIONS

D.1. CHART COMPARISON

There are three charts and three ENCs affected by this survey:

Chart	Edition	Print Date	Scale
11376	52nd	06/2007	1:80,000
11378	35th	03/2008	1:40,000

ENC Cell	Last Updated	Corresponding Chart	Version
US5AL13M	2008/09/22	11376	22

Filed with original field records.

General Agreement with Charted soundings

All current H11305 surveyed soundings in the Mobile Channel have been superseded by US Army Corp of Engineers survey and dredge work. ***Concur. See also Evaluation Report D.1.1).***

Comparison with the latest chart revealed excellent agreement with charted soundings. Current survey depths are 1 to 2 feet deeper than charted depths in most areas. ***Concur.***

A submerged wreck charted PA at 30.28N Lat, 88.06 W Lon was not assigned as an AWOIS item, however it was covered by 200% side scan coverage and nothing was found. The hydrographer recommends removal of the charted submerged wreck. ***Concur with clarification. Charted wreck exists in junction area with Survey H11306. Delete charted dangerous wreck, least depth unknown and text "PA".***

AWOIS Item Investigations

There were a total of 9 AWOIS items assigned to NRT-1 in Sheet B. The radius of these items were covered using 200% SSS, where possible. ***Concur with clarification. Two additional AWOIS items (J373 AWOIS04 #12386-Obstrn/#12388-Wreck of the Miss Dana) were not included in the field submission. These were included in the AHB feature review, therefore, eleven AWOIS Items are included in H11305.***

Results of all AWOIS investigations are contained in Appendix II. ***Concur***

Dangers to Navigation

No DTONS were identified in this survey. ***Do not concur. One DTON was submitted by AHB.***

See Appendix I of this report.

Shoreline

No shoreline features were investigated by the field party. ***Concur with clarification. See also Evaluation Report (D.1.1).***

D. 2. ADDITIONAL RESULTS

Aids to Navigation and Other Detached Positions

All Aids to Navigation in the survey area were found to be on station and serving their intended purpose. The field party has no recommendations on these Aids to Navigation. ***Concur***

Ferry Routes

There is one ferry route in the survey area. The route itself is charted correctly but the western terminus should be charted 800 meters northwest of its' charted location, to immediately west of the charted ramps inside the Dauphin Island Harbor. The eastern terminus should be charted approximately 500 meters east of its' current charted position to the pier already charted there. ***Concur. See also Evaluation Report.***

Submarine Cables and Pipelines

There were several charted submarine pipelines within the survey area. The field party did not attempt to identify or position any submerged cables or pipelines. ***Concur***

Bridges and Overhead Cables

There were no bridges or overhead cables in the survey area. ***Concur***

APPROVAL SHEET

OPR-J373-NRT1-04
Alabama
Mobile Bay
Entrance to Mobile Bay
Survey Registry No. H-11305

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.

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

Submitted: Digitally signed by Mark J. McMann
DN: cn=Mark J. McMann, o=NRT-1, ou=NSD, email=Mark.McMann@noaa.gov, c=US
Date: 2008.01.14 10:22:22 -06'00'

Mark J. McMann - Team Leader
Navigation Response Team 1

APPENDIX I
DANGER TO NAVIGATION RECORDS

H11305 DTON-1

Registry Number: H11305

State: Alabama

Locality: Mobile Bay

Sub-locality: Entrance to Mobile Bay

Project Number: OPR-J373-NRT1-04

Survey Date: 07/10/2006

Wreck is located in close proximity of the ferry route that is revised by survey H11305 Evaluation Report documentation.

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11378	34th	02/01/2006	1:40,000 (11378_6)	USCG LNM: 12/26/2006 (03/13/2007) NGA NTM: 12/13/1997 (03/17/2007)
11378	34th	02/01/2006	1:40,000 (11378_7)	[L]NTM: ?
11377	7th	10/01/2007	1:40,000 (11377_1)	USCG LNM: 12/30/2008 (01/13/2009) NGA NTM: 11/19/2005 (01/24/2009)
11376	51st	02/01/2006	1:80,000 (11376_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	32nd	08/01/2005	1:875,000 (11006_1)	[L]NTM: ?
411	51st	12/01/2006	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 Uncharted wreck 299/1	Wreck	2.84 m	30° 14' 05.8" N	088° 00' 57.9" W	---

1 - Danger To Navigation

1.1) Profile/Beam - 299/1 from h11305 / 1211sb / 2006-191 / 190_1035

DANGER TO NAVIGATION

Survey Summary

Survey Position: 30° 14' 05.8" N, 088° 00' 57.9" W

Least Depth: 2.84 m (= 9.32 ft = 1.553 fm = 1 fm 3.32 ft)

TPU (±1.96σ): **THU (TPEh)** ±-1.000 m ; **TVU (TPEv)** ±-1.000 m

Timestamp: 2006-191.10:35:23.686 (07/10/2006)

Survey Line: h11305 / 1211sb / 2006-191 / 190_1035

Profile/Beam: 299/1

Charts Affected: 11377_1, 11378_6, 11378_7, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Contact identified on 200% SSS coverage. Contact was investigated using SBES in a star pattern. Contact has been designated a wreck based on visual SSS record analysis. Wreck has been determined not to be a DTON due to proximity to previously charted wrecks and lack of deep draft use of object's location, but is a significant object.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11305/1211sb/2006-191/190_1035	299/1	0.00	000.0	Primary
hdcs_data/1211sb/2006-191/190_1035	300/1	0.17	240.2	Secondary

Hydrographer Recommendations

Hydrographer recommends charting submerged wreck at current curvey location.

Cartographically-Rounded Depth (Affected Charts):

9ft (11377_1, 11378_6, 11378_7, 11376_1)

1 ½fm (1115A_1, 11360_1, 11006_1, 411_1)

S-57 Data

Geo object 1: Wreck (WRECKS)

Attributes: CATWRK - 2:dangerous wreck

INFORM - DTON-1

OBJNAM - uncharted wreck

QUASOU - 6:least depth known

SORDAT - 20070927

SORIND - US,US,nsurf,H11305

TECSOU - 1,2:found by echo-sounder,found by side scan sonar

VALSOU - 2.840 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

Office Notes

Concur with clarification. office processing determined a shoaler least depth than the field unit by one foot. Due to the wreck being located along the revised ferry route the feature was submitted as DTON-1 by AHB. Recommend charting dangerous submerged wreck, least depth 9 ft and text "Wk" at the survey position.

Feature Images

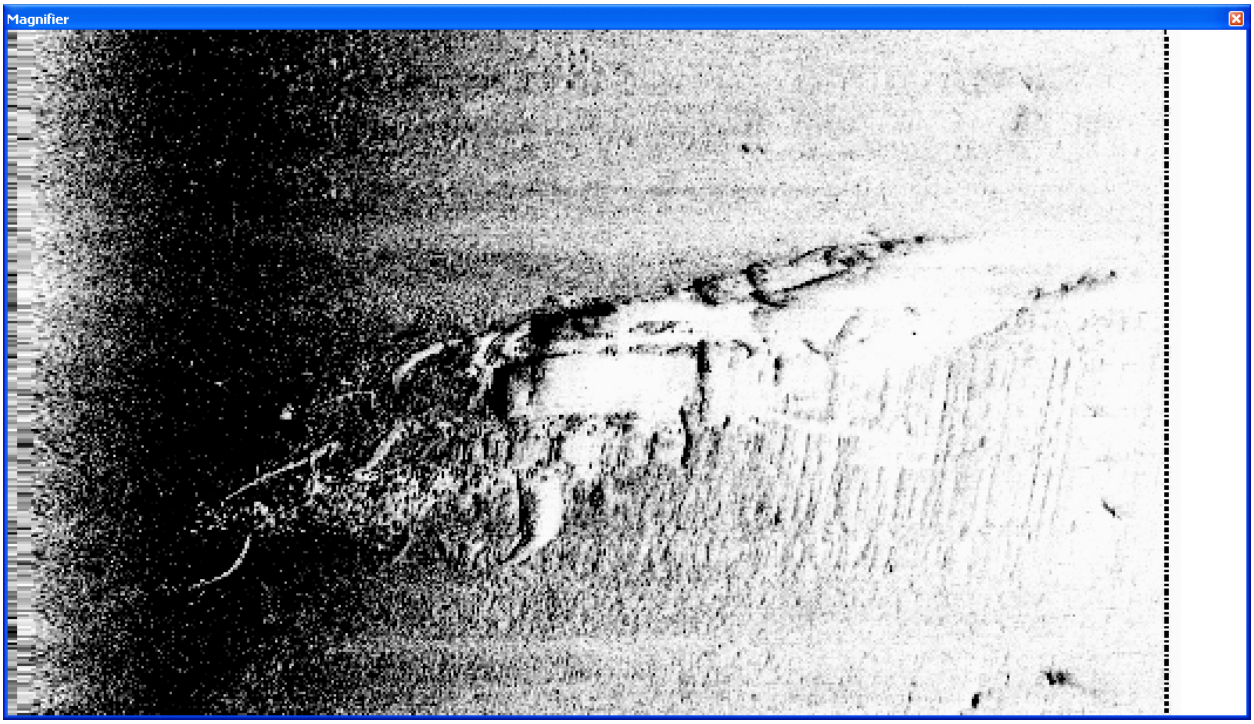


Figure 1.1.1

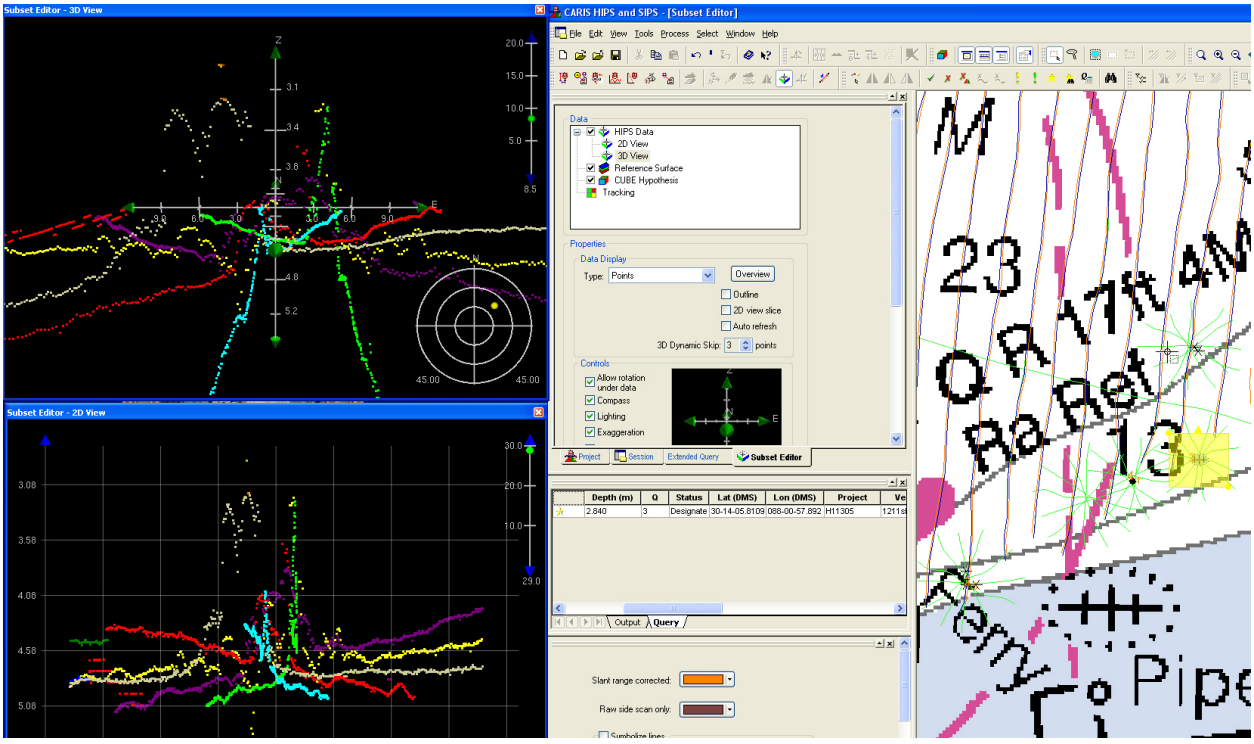


Figure 1.1.2

APPENDIX II
FEATURE REPORT

H11305 DR

Registry Number: H11305
State: Alabama
Locality: Mobile Bay
Sub-locality: Entrance to Mobile Bay
Project Number: OPR-J373-NRT1-04
Survey Dates: 06/30/2004 - 07/10/2006

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11378	34th	02/01/2006	1:40,000 (11378_6)	USCG LNM: 12/26/2006 (03/13/2007) NGA NTM: 12/13/1997 (03/17/2007)
11378	34th	02/01/2006	1:40,000 (11378_7)	[L]NTM: ?
11377	7th	10/01/2007	1:40,000 (11377_1)	USCG LNM: 12/30/2008 (01/13/2009) NGA NTM: 11/19/2005 (01/24/2009)
11376	51st	02/01/2006	1:80,000 (11376_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	32nd	08/01/2005	1:875,000 (11006_1)	[L]NTM: ?
411	51st	12/01/2006	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	Ctr of 5 wood piles	Pile	[None]	30° 14' 01.3" N	088° 00' 44.3" W	---
1.2	ferry pier	Stationary structure, floating or fixed	[None]	30° 13' 58.3" N	088° 00' 56.0" W	---
1.3	Center of Ferry Landing	Stationary structure, floating or fixed	[None]	30° 15' 06.1" N	088° 04' 54.9" W	---
1.4	14ft OBSTRUCTION	Obstruction	4.46 m	30° 16' 10.4" N	088° 01' 54.0" W	---
2.1	Exposed Wreck in Ruins	Wreck	[None]	30° 14' 05.8" N	088° 00' 36.6" W	---
2.2	wood pile in ruins	Pile	[None]	30° 13' 53.5" N	088° 01' 09.7" W	---
2.3	wood pile	Pile	[None]	30° 13' 54.2" N	088° 01' 10.3" W	---
2.4	rock jetty	Stationary structure, floating or fixed	[None]	30° 13' 51.3" N	088° 01' 26.5" W	---

2.5	17ft-Obstrn 391/1	Obstruction	5.39 m	30° 15' 51.8" N	088° 02' 34.6" W	---
2.6	8 ft Obstrn 341/1	Obstruction	2.50 m	30° 14' 01.0" N	088° 01' 07.8" W	---
2.7	18 ft Obstrn 250/1	Obstruction	5.64 m	30° 15' 24.2" N	088° 02' 25.9" W	---
3.1	AWOIS#12361 0001	Wreck	[None]	30° 13' 58.7" N	088° 01' 13.9" W	12361
3.2	AWOIS# 12354 309/1	Obstruction	12.53 m	30° 16' 12.3" N	088° 02' 08.9" W	12354
3.3	AWOIS# 3534 217/1	Obstruction	5.23 m	30° 16' 02.6" N	088° 01' 56.4" W	3534
3.4	AWOIS 7145 UNKNOWN	AWOIS	[no data]	[no data]	[no data]	---
3.5	AWOIS 7147 UNKNOWN	AWOIS	[no data]	[no data]	[no data]	---
3.6	OBSTRUCTION AWOIS 12355	AWOIS	[no data]	[no data]	[no data]	---
3.7	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
3.8	AWOIS#12359 867/1	Obstruction	3.39 m	30° 15' 33.5" N	088° 00' 19.5" W	12359
3.9	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
3.10	MISS DANA	AWOIS	[no data]	[no data]	[no data]	---
3.11	AWOIS 3535	Obstruction	6.84 m	30° 15' 08.5" N	088° 02' 28.3" W	3535
4.1	DTON-1 Uncharted wreck 299/1	Wreck	2.84 m	30° 14' 05.8" N	088° 00' 57.9" W	---

1 - Charted Features

1.1) Profile/Beam - 3/1 from h11305 / 1211dp_non_echosounder / 2004-237 / 08242004

Survey Summary

Survey Position: 30° 14' 01.3" N, 088° 00' 44.3" W

Least Depth: [None]

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

Timestamp: 2004-237.15:55:18.000 (08/24/2004)

DP Dataset: h11305 / 1211dp_non_echosounder / 2004-237 / 08242004

Profile/Beam: 3/1

Charts Affected: 11377_1, 11378_6, 11378_7, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Center of 5 wood piles exposed 3m.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11305/1211dp_non_echosounder/2004-237/08242004	3/1	0.00	000.0	Primary

Hydrographer Recommendations

Retain as charted.

S-57 Data

Geo object 1: Pile (PILPNT)

Attributes: CATPLE - 3:post

CONVIS - 1:visual conspicuous

OBJNAM - piles

SORDAT - 20070927

SORIND - US,US,survy,H11305

Office Notes

Concur with clarification. Retain the eight charted piles in this area and text "Piles" as charted. Shown as 13 piles among pier ruins on chart 11378, recommend revising chart disparity.

1.2) Profile/Beam - 10/1 from h11305 / 1211dp_non_echosounder / 2004-237 / 08242004

Survey Summary

Survey Position: 30° 13' 58.3" N, 088° 00' 56.0" W

Least Depth: [None]

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

Timestamp: 2004-237.16:02:25.000 (08/24/2004)

DP Dataset: h11305 / 1211dp_non_echosounder / 2004-237 / 08242004

Profile/Beam: 10/1

Charts Affected: 11377_1, 11378_6, 11378_7, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Offshore end of ferry pier.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11305/1211dp_non_echosounder/2004-237/08242004	10/1	0.00	000.0	Primary

Hydrographer Recommendations

Hydrographer recommends moving currently charted Ferry Pier to the position of this DP. Ferry Pier position is currently charted incorrectly.

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)

Attributes: CATSLC - 4:pier (jetty)

HEIGHT - 2 m

INFORM - offshore end. exposed 2 m

NATCON - 7:metal

SORDAT - 20070927

SORIND - US,US,survy,H11305

STATUS - 1,8:permanent,private

Office Notes

Concur with clarification. Revise charted position of ferry pier to shoreline construction feature inluded in the H11305_CS.000 H-Cell. Ferry position was digitized from best available orthoimagery.

1.3) Profile/Beam - 52/1 from h11305 / 1211dp_non_echosounder / 2004-237 / 08242004

Survey Summary

Survey Position: 30° 15' 06.1" N, 088° 04' 54.9" W

Least Depth: [None]

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

Timestamp: 2004-237.17:49:15.000 (08/24/2004)

DP Dataset: h11305 / 1211dp_non_echosounder / 2004-237 / 08242004

Profile/Beam: 52/1

Charts Affected: 11377_1, 11378_6, 11378_7, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Center of ferry landing. County park exists where ferry landing is currently charted. DP indicates correct location of ferry landing, which is in its own basin 500m wnw of charted location. Photograph indicates current structure.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11305/1211dp_non_echosounder/2004-237/08242004	52/1	0.00	000.0	Primary

Hydrographer Recommendations

Hydrographer recommends moving Ferry landing location to survey DP location.

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)

Attributes: OBJNAM - Ferry Pier

SORDAT - 20070927

SORIND - US,US,survy,H11305

Office Notes

Concur with clarification. Revise charted position of ferry pier to shoreline construction feature inluded in the H11305_CS.000 H-Cell. Ferry position was digitized from best available orthoimagery.

1.4) Profile/Beam - 332/1 from h11305 / 1211sb / 2006-108 / 022_1004

Survey Summary

Survey Position: 30° 16' 10.4" N, 088° 01' 54.0" W

Least Depth: 4.46 m (= 14.63 ft = 2.438 fm = 2 fm 2.63 ft)

TPU (±1.96σ): **THU (TPEh)** ±-1.000 m ; **TVU (TPEv)** ±-1.000 m

Timestamp: 2006-108.10:04:32.571 (04/18/2006)

Survey Line: h11305 / 1211sb / 2006-108 / 022_1004

Profile/Beam: 332/1

Charts Affected: 11377_1, 11378_6, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Unknown Contact. Possibly AWOIS 12355 Pile PA. Contact investigated with SBES in star pattern. Contact that was found and investigated determined to be insignificant.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11305/1211sb/2006-108/022_1004	332/1	0.00	000.0	Primary
h11305/1211sss500k/2004-100/mb040409122600	0009	2.30	172.0	Secondary
h11305/1211sss500k/2004-100/mb040409122600	0001	2.75	141.6	Secondary
h11305/1211sss500k/2004-176/mb040624184900	0001	3.23	210.7	Secondary
h11305/1211sss500k/2004-176/mb040624184900	0002	3.67	218.0	Secondary

Hydrographer Recommendations

Hydrographer recommends removing Pile PA from chart and charting surrounding soundings.

Cartographically-Rounded Depth (Affected Charts):

14ft (11377_1, 11378_6, 11376_1)

2 ½fm (1115A_1, 11360_1, 11006_1, 411_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes: QUASOU - 6:least depth known

SORDAT - 20070927

SORIND - US,US,nsurf,H11305

TECSOU - 1,2:found by echo-sounder,found by side scan sonar

VALSOU - 4.459 m

VERDAT - 12:Mean lower low water

Office Notes

Do not concur. Office processing determined this item is NOT AWOIS 12355. Chart dangerous obstruction, depth reported 14 feet and text "Obstn 14 ft rep" at the survey position.

2 - New Features

2.1) Profile/Beam - 1/1 from h11305 / 1211dp_non_echosounder / 2004-237 / 08242004

Survey Summary

Survey Position: 30° 14' 05.8" N, 088° 00' 36.6" W

Least Depth: [None]

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

Timestamp: 2004-237.15:51:31.000 (08/24/2004)

DP Dataset: h11305 / 1211dp_non_echosounder / 2004-237 / 08242004

Profile/Beam: 1/1

Charts Affected: 11377_1, 11378_6, 11378_7, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Visible exposed wreck(1m).

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11305/1211dp_non_echosounder/2004-237/08242004	1/1	0.00	000.0	Primary

Hydrographer Recommendations

Hydrographer recommends charting Visible Wreck.

S-57 Data

Geo object 1: Wreck (WRECKS)

Attributes:

CATWRK - 4:wreck showing mast/masts

CONVIS - 1:visual conspicuous

INFORM - Exposed 1m

OBJNAM - Exposed Wreck

SORDAT - 20070927

SORIND - US,US,survy,H11305

VERDAT - 12:Mean lower low water

WATLEV - 2:always dry

Office Notes

Concur, chart dangerous visible wreck at the survey position.

2.2) Profile/Beam - 14/1 from h11305 / 1211dp_non_echosounder / 2004-237 / 08242004

Survey Summary

Survey Position: 30° 13' 53.5" N, 088° 01' 09.7" W

Least Depth: [None]

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

Timestamp: 2004-237.16:10:17.000 (08/24/2004)

DP Dataset: h11305 / 1211dp_non_echosounder / 2004-237 / 08242004

Profile/Beam: 14/1

Charts Affected: 11377_1, 11378_6, 11378_7, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Wood pile in ruins exp. .5 m

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11305/1211dp_non_echosounder/2004-237/08242004	14/1	0.00	000.0	Primary

Hydrographer Recommendations

Hydrographer recommends to chart pile at 30.23152858 , -088.01935783.

S-57 Data

Geo object 1: Pile (PILPNT)

Attributes: CATPLE - 3:post

CONDTN - 2:ruined

CONVIS - 2:not visual conspicuous

HEIGHT - 0.5 m

INFORM - exp. .5 m

SORDAT - 20070927

SORIND - US,US,survy,H11305

Office Notes

Concur, chart pile at the survey position.

2.3) Profile/Beam - 15/1 from h11305 / 1211dp_non_echosounder / 2004-237 / 08242004

Survey Summary

Survey Position: 30° 13' 54.2" N, 088° 01' 10.3" W

Least Depth: [None]

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

Timestamp: 2004-237.16:11:21.000 (08/24/2004)

DP Dataset: h11305 / 1211dp_non_echosounder / 2004-237 / 08242004

Profile/Beam: 15/1

Charts Affected: 11377_1, 11378_6, 11378_7, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Wood pile exposed 1m.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11305/1211dp_non_echosounder/2004-237/08242004	15/1	0.00	000.0	Primary

Hydrographer Recommendations

Hydrographer recommends to chart pile at 30.23171961 , -088.01954097.

S-57 Data

Geo object 1: Pile (PILPNT)

Attributes: CATPLE - 3:post

CONDTN - 2:ruined

CONVIS - 1:visual conspicuous

HEIGHT - 1 m

INFORM - exposed 1 m

SORDAT - 20070927

SORIND - US,US,survy,H11305

Office Notes

Concur, chart pile at the survey position.

2.4) Profile/Beam - 23/1 from h11305 / 1211dp_non_echosounder / 2004-237 / 08242004

Survey Summary

Survey Position: 30° 13' 51.3" N, 088° 01' 26.5" W

Least Depth: [None]

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

Timestamp: 2004-237.16:21:13.000 (08/24/2004)

DP Dataset: h11305 / 1211dp_non_echosounder / 2004-237 / 08242004

Profile/Beam: 23/1

Charts Affected: 11377_1, 11378_6, 11378_7, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Offshore end of rock jetty. Exp 2m.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11305/1211dp_non_echosounder/2004-237/08242004	23/1	0.00	000.0	Primary

Hydrographer Recommendations

Chart rock jetty at survey position of rock jetty: 30.23091181 , -088.02402011.

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)

Attributes: CATSLC - 4:pier (jetty)

HEIGHT - 2 m

INFORM - offshore end. exp 2m.

NATCON - 3:loose boulders

SORDAT - 20070927

SORIND - US,US,survy,H11305

Office Notes

Concur with clarification. Retain Jetty as charted. Currently not shown on chart 11377.

2.5) Profile/Beam - 391/1 from h11305 / 1211sb / 2006-108 / 054_1056

Survey Summary

Survey Position: 30° 15' 51.8" N, 088° 02' 34.6" W

Least Depth: 5.39 m (= 17.68 ft = 2.947 fm = 2 fm 5.68 ft)

TPU (±1.96σ): **THU (TPEh)** ±-1.000 m ; **TVU (TPEv)** ±-1.000 m

Timestamp: 2006-108.10:56:59.597 (04/18/2006)

Survey Line: h11305 / 1211sb / 2006-108 / 054_1056

Profile/Beam: 391/1

Charts Affected: 11377_1, 11378_6, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

1 meter contact found and least depth determined in center of 2 unknown contacts with a surrounding depth of approximately 6m using SBES in a star shaped pattern. Item determined to be insignificant.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11305/1211sb/2006-108/054_1056	391/1	0.00	000.0	Primary
h11305/1211sss500k/2004-182/mb040630184900	0002	5.98	319.8	Secondary
h11305/1211sb/2006-108/052_1059	439/1	14.91	308.0	Secondary
h11305/1211sb/2006-108/050_1102	449/1	14.92	311.2	Secondary
h11305/1211sss500k/2004-071/mb040311172400	0006	23.30	324.9	Secondary

Hydrographer Recommendations

Hydrographer recommends charting current survey soundings.

Cartographically-Rounded Depth (Affected Charts):

17ft (11377_1, 11378_6, 11376_1)

3fm (1115A_1, 11360_1, 11006_1, 411_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes: INFORM - 17ft Obstrn

QUASOU - 6:least depth known

SORDAT - 20070927

SORIND - US,US,Nsurf,H11305

TECSOU - 1,2:found by echo-sounder,found by side scan sonar

VALSOU - 5.389 m

WATLEV - 3:always under water/submerged

Office Notes

Do not concur. Chart dangerous obstruction, least depth 17 ft and text "Obstn" at the survey position.

Feature Images

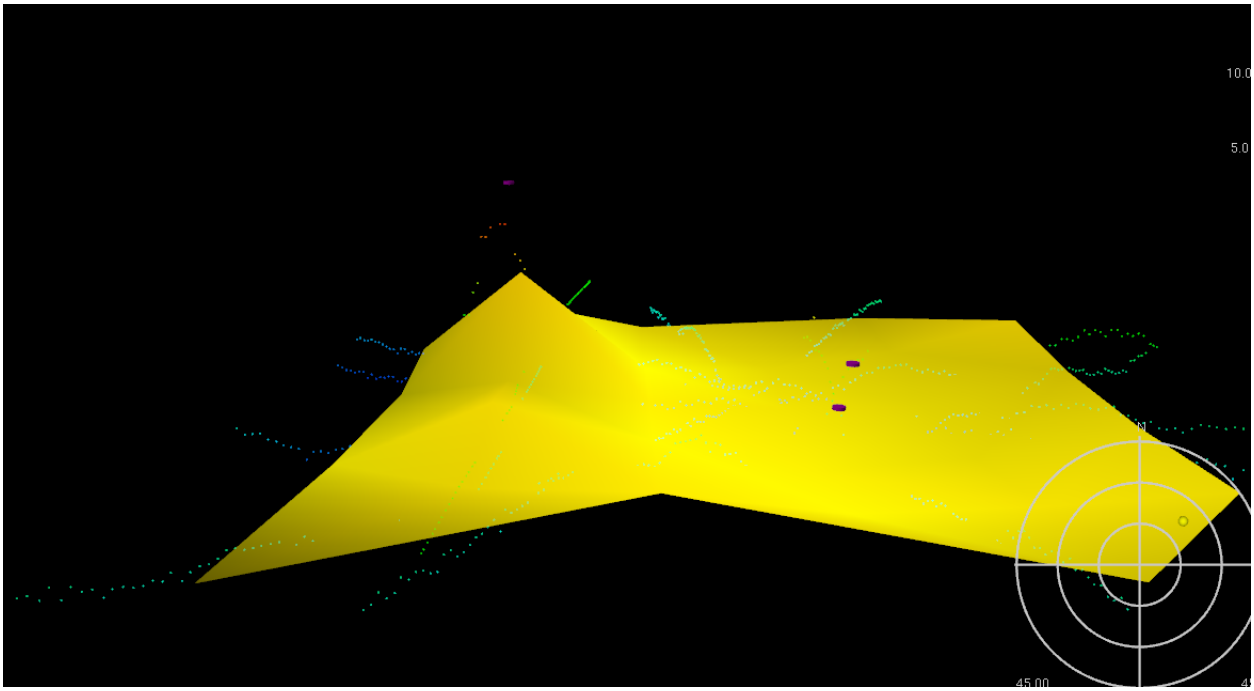


Figure 2.5.1

2.6) Profile/Beam - 341/1 from h11305 / 1211sb / 2006-191 / 173_1002

Survey Summary

Survey Position: 30° 14' 01.0" N, 088° 01' 07.8" W

Least Depth: 2.50 m (= 8.20 ft = 1.367 fm = 1 fm 2.20 ft)

TPU (±1.96σ): **THU (TPEh)** ±-1.000 m ; **TVU (TPEv)** ±-1.000 m

Timestamp: 2006-191.10:02:47.001 (07/10/2006)

Survey Line: h11305 / 1211sb / 2006-191 / 173_1002

Profile/Beam: 341/1

Charts Affected: 11377_1, 11378_6, 11378_7, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Unknown contact identified on 200% SSS coverage. Contact was investigated using SBES in a star pattern. Contact was determined to be a subm. obs. and is considered significant and should be charted. Sounding was added to CARIS line file to reflect BIN file least depth. It is in close to proximity to two other charted wrecks, but is outside of indicated areas of those wrecks and should therefore be charted as an independent object. This item was deemed to be NOT a Danger to Navigation.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11305/1211sb/2006-191/173_1002	341/1	0.00	000.0	Primary
h11305/1211sss500k/2004-107/mb040416124900	0002	6.01	063.1	Secondary
h11305/1211sss500k/2004-107/mb040416124900	0004	7.10	292.6	Secondary
h11305/1211sss500k/2004-175/mb040623151200	0003	9.04	113.1	Secondary
h11305/1211sss500k/2004-107/mb040416124900	0001	14.69	157.0	Secondary

Hydrographer Recommendations

Add subm. obs. to chart in surveyed location.

Cartographically-Rounded Depth (Affected Charts):

8ft (11377_1, 11378_6, 11378_7, 11376_1)

1 ¼fm (1115A_1, 11360_1, 11006_1, 411_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes:

QUASOU - 6:least depth known

SORDAT - 20060615

SORIND - US,US,nsurf,H11305

TECSOU - 1,2:found by echo-sounder,found by side scan sonar

VALSOU - 2.500 m

WATLEV - 3:always under water/submerged

Office Notes

Concur with clarification. Chart dangerous obstruction, least depth 8 ft and text "Obstn" at the survey position.

2.7) Profile/Beam - 250/1 from h11305 / 1211sb / 2006-166 / 069_0953

Survey Summary

Survey Position: 30° 15' 24.2" N, 088° 02' 25.9" W

Least Depth: 5.64 m (= 18.50 ft = 3.084 fm = 3 fm 0.50 ft)

TPU (±1.96σ): **THU (TPEh)** ±-1.000 m ; **TVU (TPEv)** ±-1.000 m

Timestamp: 2006-166.09:53:44.244 (06/15/2006)

Survey Line: h11305 / 1211sb / 2006-166 / 069_0953

Profile/Beam: 250/1

Charts Affected: 11377_1, 11378_6, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Contact was detected in 200% SSS imagery. Contact was investigated using SBES in a star pattern and was found to have a siginificant least depth.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11305/1211sb/2006-166/069_0953	250/1	0.00	000.0	Primary
h11305/1211sss500k/2004-071/mb040311195200	0003	13.86	017.5	Secondary
h11305/1211sss500k/2004-071/mb040311191300	0002	14.64	022.4	Secondary

Hydrographer Recommendations

Hydrographer recommends charting obstruction at current survey location of least depth designted sounding.

Cartographically-Rounded Depth (Affected Charts):

18ft (11377_1, 11378_6, 11376_1)

3fm (1115A_1, 11360_1, 11006_1, 411_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes: QUASOU - 6:least depth known

SORDAT - 20070927

SORIND - US,US,nsurf,H11305

TECSOU - 1,2:found by echo-sounder,found by side scan sonar

VALSOU - 5.640 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

Office Notes

Concur with clarification. Chart dangerous obstruction, least depth 18 ft at the survey position.

3 - AWOIS Features

3.1) Contact/Point - 0001/1 from h11305 / 1211sss500k / 2004-175 / mb040623154000

Primary Feature for AWOIS Item #12361

Search Position:	30° 13' 58.7" N, 088° 01' 13.8" W
Historical Depth:	[None]
Search Radius:	50
Search Technique:	SD, S2, SWMB, ES, DI, VS
Technique Notes:	[None]

History Notes:

HISTORY■ LNM-24/92--ADD SYMBOL: "DANGEROUS WRECK (PA)" AND LEGEND: "(LESS THAN ONE FT REP)" (CGD8 104-92) 30/13/54.0N - 88/01/15.0W■ LNM-25/92--RELOCATE "DANGEROUS WRECK (PA) AND LEGEND "(LESS THAN 1 FT REP)" FROM 30/13/54.0N - 88/01/15.0 TO 30/13/59.2N - 088/01/12.2W■ LNM26/92--RELOCATE "DANGEROUS WRECK (PA) AND LEGEND "(LESS THAN 1 FT REP)" FROM 30/13/54.0N - 88/01/15.0 TO 30/13/58.7N - 088/01/13.8W (SUPERCEDES LNM-25/92) (ENTERED 3/04, SPS)■■***PER TELECON WITH USCG, REPORTED TO BE AN OLD WARSHIP (GILDART, MINELAYER APPROX 100 FOOT LONG) PURPOSELY SUNK IN APPROX POSITION 30-13-57.5N 088-01-15.9W APPROXIMATELY 70 YEARS AGO IN 1936. THE U.S. ARMY SANK THE WRECK IN THIS POSITION TO SHORE UP A WHARF USED TO RECEIVE SUPPLIES. OVER THE YEARS, THE WHARF HAS DETERIORATED AND THROUGH EROSION, THE WRECK IS FURTHER FROM SHORE. THE WRECK IS APPROX 300 FEET OFF THE SHORE AND AWASH. THE WRECK HAS BEEN MARKED BY THE USCG FOR YEARS. ON AUGUST 10, 2003, A BOATER HIT THE WRECK KILLING HIM AND INJURING HIS PASSENGERS. SINCE THEN, THE USCG HAS ADDED ANOTHER AID TO NAVIGATION AND THE STATE WILL BE ADDING 5 MORE DAYBEACONS. (UPDATED 4/04, SPS)

Survey Summary

Survey Position:	30° 13' 58.7" N, 088° 01' 13.9" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2004-244.03:24:46 (08/31/2004)
Survey Line:	h11305 / 1211sss500k / 2004-175 / mb040623154000
Contact/Point:	0001/1
Charts Affected:	11377_1, 11378_6, 11378_7, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Two contacts on wreck identifed in 200% SSS coverage. Wreck exists within previously charted boundaries. AWOIS 12361 item identified and charted in correct position

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11305/1211sss500k/2004-175/mb040623154000	0001	0.00	000.0	Primary
H11305_AWOIS	AWOIS # 12361	4.08	248.0	Secondary
h11305/1211sss500k/2004-107/mb040416113500	0003	19.58	230.5	Secondary
h11305/1211sss500k/2004-175/mb040623154000	0005	20.12	233.7	Secondary (grouped)
h11305/1211sss500k/2004-107/mb040416113500	0002	29.91	137.3	Secondary (grouped)
h11305/1211sss500k/2004-175/mb040623154000	0007	30.36	139.6	Secondary (grouped)

Hydrographer Recommendations

Hydrographer recommends retaining wreck as charted.

S-57 Data

Geo object 1: Wreck (WRECKS)

Attributes:

CATWRK - 2:dangerous wreck

OBJNAM - AWOIS 12361

QUASOU - 2:depth unknown

SORDAT - 20070927

SORIND - US,US,survy,H11305

TECSOU - 1,2:found by echo-sounder,found by side scan sonar

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

Office Notes

Concur with clarification. Retain AWOIS Item 12361 dangerous wreck least depth unknown and text "Wks PA" as charted.

3.2) Profile/Beam - 309/1 from h11305 / 1211sb / 2006-108 / 005_0950

Primary Feature for AWOIS Item #12354

Search Position: 30° 16' 11.7" N, 088° 02' 08.9" W

Historical Depth: [None]

Search Radius: 100

Search Technique: SD, S2, SWMB, ES, DI

Technique Notes: [None]

History Notes:

HISTORY■ LNM14/03-- ADD SYMBOL: "SUBMERGED OBSTRUCTION (PA)" AND LEGEND: "COVERED BY 32FT MAR 2003" (CGD8 056-03) (ENTERED 3/04, SPS)

Survey Summary

Survey Position: 30° 16' 12.3" N, 088° 02' 08.9" W

Least Depth: 12.53 m (= 41.11 ft = 6.852 fm = 6 fm 5.11 ft)

TPU (±1.96σ): **THU (TPEh)** ±-1.000 m ; **TVU (TPEv)** ±-1.000 m

Timestamp: 2006-108.09:50:28.118 (04/18/2006)

Survey Line: h11305 / 1211sb / 2006-108 / 005_0950

Profile/Beam: 309/1

Charts Affected: 11377_1, 11378_6, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Unknown SSS contact observed in center of AWOIS 12354 radius. Contact investigated with SBES in star shaped pattern. Least depth of contact is as charted. This contact is at the base of a side slope on the side of the channel. The Hydrographer has determined this to be insignificant.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11305/1211sb/2006-108/005_0950	309/1	0.00	000.0	Primary
h11305/1211sss500k/2004-182/mb040630141800	0006	9.87	046.0	Secondary
h11305/1211sss500k/2004-182/mb040630141800	0013	10.32	023.3	Secondary
H11305_AWOIS	AWOIS # 12354	18.99	357.0	Secondary
h11305/1211sss500k/2004-096/mb040405155900	0012	22.95	263.6	Secondary

Hydrographer Recommendations

Hydrographer recommends retaining Obstn as charted. Least Depth sounding should be updated.

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes:

OBJNAM - AWOIS 12354

QUASOU - 6:least depth known

SORDAT - 20070927

SORIND - US,US,nsurf,H11305

TECSOU - 1,2:found by echo-sounder,found by side scan sonar

VALSOU - 12.531 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

Office Notes

Do not concur. Office processing determined that AWOIS Item 12354 is insignificant. Delete charted dangerous obstruction, least depth 27 ft and text "Obstn". Chart survey soundings in common area and update AWOIS database.

3.3) Profile/Beam - 217/1 from h11305 / 1211sb / 2006-108 / 033_1018

Primary Feature for AWOIS Item #3534

Search Position: 30° 16' 01.7" N, 088° 01' 58.1" W

Historical Depth: [None]

Search Radius: 250

Search Technique: S2,MB,ES

Technique Notes: [None]

History Notes:

NM47/61(6220)--NM-HO/DMAHC; AN UNIDENTIFIED OBSTRUCTION HAS BEEN REPORTED TO ■EXIST IN 13FT ABOUT 400YDS 150 DEG FROM MOBILE CHAN. LT."4" (LAT.30-16-14N, ■LONG 88-02-08W. A DEPTH OF 11FT IS REPORTED OVER THE OBSTRUCTION. SCALED IN ■LAT. 30-16-00N, LONG.88-01-58.08W AT 1:40,000. (CHT 11378-B) ■ D65/D78/84-87--OPR-J482-84; NEITHER VERIFIED NOR DISPROVED. (UPDATE 3/89 LQ)

Survey Summary

Survey Position: 30° 16' 02.6" N, 088° 01' 56.4" W

Least Depth: 5.23 m (= 17.15 ft = 2.859 fm = 2 fm 5.15 ft)

TPU (±1.96σ): **THU (TPEh)** ±-1.000 m ; **TVU (TPEv)** ±-1.000 m

Timestamp: 2006-108.10:18:35.095 (04/18/2006)

Survey Line: h11305 / 1211sb / 2006-108 / 033_1018

Profile/Beam: 217/1

Charts Affected: 11377_1, 11378_6, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Contact investigated with SBES and 200% SSS coverage. Contact is within radius of AWOIS 3534 and approximately 75m E of charted location. Contact height is insignificant.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11305/1211sb/2006-108/033_1018	217/1	0.00	000.0	Primary
hdcs_data/1211sb/2006-108/033_1018	217/1	0.00	000.0	Secondary
H11305_AWOIS	AWOIS # 3534	50.70	059.3	Secondary

Hydrographer Recommendations

Concur with clarification. Delete AWOIS Item 3534 dangerous obstruction and text "Obstn (11 ft rep)". Update AWOIS database.

Cartographically-Rounded Depth (Affected Charts):

17ft (11377_1, 11378_6, 11376_1)

2 ¾fm (1115A_1, 11360_1, 11006_1, 411_1)

S-57 Data

Geo object 1:	Obstruction (OBSTRN)
Attributes:	OBJNAM - awois 3534
	QUASOU - 6:least depth known
	SORDAT - 20070927
	SORIND - US,US,nsurf,H11305
	TECSOU - 1,2:found by echo-sounder,found by side scan sonar
	VALSOU - 5.228 m
	WATLEV - 3:always under water/submerged

Office Notes

Concur with clarification. Delete disproved AWOIS Item 3534 dangerous obstruction and text "Obstn (11 ft rep)". Update AWOIS database.

3.4) AWOIS #7145 - AWOIS 7145 UNKNOWN

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 13' 48.7" N, 088° 01' 38.0" W

Historical Depth: [None]

Search Radius: 150

Search Technique: S2,ES,MB,SD

Technique Notes: [None]

History Notes:

UNKNOWN SOURCE--SUBM DANGEROUS WK MARKED BY WHITE/ORANGE BUOY. SCALED IN ■LAT 30-13-48N; LONG 88-01-38W.■ D65/D78/84-87--OPR-J482-84; NEITHER VERIFIED NOR DISPROVED DURING THIS CES. (ENTERED 3/89 LQ)

Survey Summary

Charts Affected: 11377_1, 11378_6, 11378_7, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

200% SSS indicates presence of only Yellow Can buoy, and no wreck was indentified in imagery.

Feature Correlation

Address	Feature	Range	Azimuth	Status
H11305_AWOIS	AWOIS # 7145	0.00	000.0	Primary

Hydrographer Recommendations

Retain as charted.

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes: OBJNAM - awois 7145

SORDAT - 20070927

SORIND - US,US,survy,H11305

Office Notes

Concur with clarification. The investigation of AWOIS 7145 was inadequate for feature disproval. Retain charted AWOIS Item 7145 dangerous wreck least depth unknown and text "Wk" as charted.

3.5) AWOIS #7147 - AWOIS 7147 UNKNOWN

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 13' 54.7" N, 088° 01' 32.0" W

Historical Depth: [None]

Search Radius: 200

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

Technique Notes: SEARCH NOT REQUIRED INSHORE OF 12 FT CURVE FOR DISPROVAL

History Notes:

HISTORY■ UNKNOWN SOURCE--SUBM DANGEROUS WRECK (PA) SCALED IN LAT. 30-13-54N; LONG 88-01-32W.■ D65/D78/84-87--OPR-J482-84; SUBM WRECK (PA) NEITHER VERIFIED NOR DISPROVED DURING THIS CES. (ENTERED 3/89 LQ)

Survey Summary

Charts Affected: 11377_1, 11378_6, 11378_7, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

85% of AWOIS radius covered with 200% SSS(limited by depth). One unknown contact found within radius. Not enough information was obtained to disprove wreck.

Feature Correlation

Address	Feature	Range	Azimuth	Status
H11305_AWOIS	AWOIS # 7147	0.00	000.0	Primary
h11305/1211sss500k/2004-106/mb040415151500	0004	119.26	250.8	Secondary

Hydrographer Recommendations

Retain as charted.

S-57 Data

[None]

Office Notes

Concur with clarification. Retain AWOIS Item 7147 dangerous wreck least depth unknown and text "PA" as charted.

3.6) AWOIS #12355 - OBSTRUCTION AWOIS 12355

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 16' 12.0" N, 088° 01' 54.0" W

Historical Depth: [None]

Search Radius: 200

Search Technique: SD, S2, SWMB, DI, VS

Technique Notes: [None]

History Notes:

HISTORY■LNM-42/92--ADD SYMBOL "PILE (PA)" 30-16-12.0N - 088 01 54.00W. (ENTERED 3/04, SPS)

Survey Summary

Charts Affected: 11377_1, 11378_6, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

AWOIS 12355

Feature Correlation

Address	Feature	Range	Azimuth	Status
H11305_AWOIS	AWOIS # 12355	0.00	000.0	Primary

Hydrographer Recommendations

Area covered with 200% SSS. No significant contacts resembling a pile were located. Delete charted pile PA.

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes: OBJNAM - AWOIS 12355

SORDAT - 20070927

SORIND - US,US,survy,H11305

Office Notes

Concur. Delete disproved AWOIS Item 12355 Pile and text "Pile PA". Update AWOIS database.

3.7) AWOIS #12360 - OBSTRUCTION

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 14' 11.5" N, 088° 00' 45.3" W

Historical Depth: [None]

Search Radius: 100

Search Technique: SD, S2, SWMB, ES, DI

Technique Notes: [None]

History Notes:

HISTORY■ NOS LETTER CL480/60-- ROCK PILE DISCOVERED BY EAST COAST FIELD PARTY. A LEAST DEPTH OF 7.2 FEET WAS DETERMINED BY LEADLINE. POSITIONAL INFORMATION IN LETTER DOES NOT AGREE WITH CHARTED POSITION. POSITION GIVEN HERE WAS SCALED OFF CURRENT CHART. (ENTERED 3/04, SPS)

Survey Summary

Charts Affected: 11377_1, 11378_6, 11378_7, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

AWOIS Item 12360 was not investigated.

Feature Correlation

Address	Feature	Range	Azimuth	Status
H11305_AWOIS	AWOIS # 12360	0.00	000.0	Primary

Hydrographer Recommendations

Retain as charted.

S-57 Data

[None]

Office Notes

Concur. Retain AWOIS Item 12360 dangerous submerged rock, least depth 7 feet and text "Rk" as charted.

3.8) Profile/Beam - 867/1 from h11305 / 1211sb / 2006-103 / 310_1106

Primary Feature for AWOIS Item #12359

Search Position: 30° 15' 33.1" N, 088° 00' 19.2" W

Historical Depth: [None]

Search Radius: 100

Search Technique: SD, S2, SWMB, ES, DI

Technique Notes: [None]

History Notes:

HISTORY■ NOS LETTER CL480/60. ROCK PILE DISCOVERED BY EAST COAST FIELD PARTY AND SUBMITTED AS PRELIMIARY REVIEW ITEM 21 PROJECT CS-410. A LEAST DEPTH OF 8.4 FEET WAS DETERMINED BY LEADLINE. (ENTERED 3/04, SPS)

Survey Summary

Survey Position: 30° 15' 33.5" N, 088° 00' 19.5" W

Least Depth: 3.39 m (= 11.12 ft = 1.853 fm = 1 fm 5.12 ft)

TPU (±1.96σ): **THU (TPEh)** ±-1.000 m ; **TVU (TPEv)** ±-1.000 m

Timestamp: 2006-103.11:07:35.044 (04/13/2006)

Survey Line: h11305 / 1211sb / 2006-103 / 310_1106

Profile/Beam: 867/1

Charts Affected: 11377_1, 11378_6, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Charted Subm Rk. AWOIS 12359. Contact detected in 200% SSS coverage. Contact investigated using SBES in a star pattern. Item determined to be AWOIS 12359, Subm. Rk.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11305/1211sb/2006-103/310_1106	867/1	0.00	000.0	Primary
H11305_AWOIS	AWOIS # 12359	13.38	326.5	Secondary
h11305/1211sss500k/2004-169/mb040617160300	0003	14.63	221.4	Secondary
h11305/1211sss500k/2004-139/mb040518190400	0002	39.56	064.4	Secondary
h11305/1211sss500k/2004-169/mb040617162100	0001	45.93	067.1	Secondary
h11305/1211sss500k/2004-139/mb040518190400	0003	54.38	065.5	Secondary (grouped)

Hydrographer Recommendations

Retain as charted.

Cartographically-Rounded Depth (Affected Charts):

11ft (11377_1, 11378_6, 11376_1)

1 ¾fm (1115A_1, 11360_1, 11006_1, 411_1)

S-57 Data

Geo object 1:	Obstruction (OBSTRN)
Attributes:	QUASOU - 6:least depth known
	SORDAT - 20070927
	SORIND - US,US,nsurf,H11305
	TECSOU - 1,2:found by echo-sounder,found by side scan sonar
	VALSOU - 3.389 m
	WATLEV - 3:always under water/submerged

Office Notes

Do not Concur. Delete AWOIS Item 12359 charted dangerous submerged rock, least depth 8 ft and text "Rk". Chart dangerous obstruction, least depth 11 ft and text "Obstn" at the survey position. Update AWOIS database.

3.9) AWOIS #12386 - OBSTRUCTION

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 15' 54.0" N, 088° 03' 42.0" W

Historical Depth: [None]

Search Radius: 150

Search Technique: SD, S2, SWMB, ES, DI, VS

Technique Notes: [None]

History Notes:

HISTORY■ LNM35/02--TWO FIVE GALLON BUCKETS, ONE BLUE AND OND RED WITH ATTACHED CABLES AND NETS HAVE BEEN REPORTED AS SUBMERGED OBSTRUCTIONS NEAR PASS AUX HERONS IN APPROXIMATE POSITION 30-15-54.0N 088-03-42.0W. THE OBSTRUCTIONS ARE APPROXIMATELY 50 FEET ACROSS AND JUST BELOW THE WATERLINE. THE OBSTRUCTIONS ARE REPORTEDLY NOT MARKED. (ENTERED 3/04, SPS)■■***PER TELECON WITH USCG, BUCKETS ATTACHED WITH WIRE WHICH STRETCHES JUST BELOW THE WATERLINE. (UPDATED 4/04, SPS)

Survey Summary

Charts Affected: 11377_1, 11378_6, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Office QA determined No feature in AWOIS search radius.Delete charted obstruction.

Feature Correlation

Address	Feature	Range	Azimuth	Status
J373awois04	AWOIS # 12386	0.00	000.0	Primary

Hydrographer Recommendations

Delete charted Obstn.

S-57 Data

[None]

Office Notes

Delete AWOIS 12386 dangerous obstruction and text "Obstn PA", Update AWOIS database.

3.10) AWOIS #12388 - MISS DANA

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 15' 36.0" N, 088° 03' 30.0" W

Historical Depth: [None]

Search Radius: 200

Search Technique: SD, S2, SWMB, ES, DI

Technique Notes: [None]

History Notes:

HISTORY■ LNM14/98--8TH CGD: ADD SYMBOL: "DANGEROUS WRECK (PA)" (50FT F/V) (CGD8 028-98) (ENTERED 3/04, SPS)■■***PER TELECON WITH USCG, SHIP HAS WOOD HULL. SUNK ON 3/19/98. (UPDATED 4/04, SPS)

Survey Summary

Charts Affected: 11377_1, 11378_6, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Office QA determined No feature in AWOIS search radius.Delete charted wreck.

Feature Correlation

Address	Feature	Range	Azimuth	Status
J373awois04	AWOIS # 12388	0.00	000.0	Primary

Hydrographer Recommendations

Delete charted wreck PA

S-57 Data

[None]

Office Notes

Delete AWOIS 12388 "Miss Dana" Dangerous submerged wreck, least depth unknown and text "PA". Update AWOIS database.

3.11) Profile/Beam - 7309/1 from h11305 / 1211sb / 2004-182 / 286_1633

Primary Feature for AWOIS Item #3535

Search Position: 30° 15' 03.1" N, 088° 02' 30.5" W

Historical Depth: [None]

Search Radius: 250

Search Technique: S2,MB,ES

Technique Notes: [None]

History Notes:

HISTORY■ LNM27/81--USCG; SUBMERGED OBSTRUCTION REPORTED IN APPROX POS. LAT.30-15N ■LONG.88-02.5W. SCALED IN 30-15-03.11 N 088-02-30.5 W NAD 83 AT 1:40,000. ■ D65/D78/84-87--OPR-J482-84; NEITHER VERIFIED NOR DISPROVED. (UPDATE 3/89 LQ)■ S-J610-WH-02--HLS: Retain Obstruction PA. Hydrographer recommends retaining charted obstruction in location■30-15-03.100 N, 088-02-30.500 W. The survey covered only 30% of the 250m radius; no significant contacts were found.

Survey Summary

Survey Position: 30° 15' 08.5" N, 088° 02' 28.3" W

Least Depth: 6.84 m (= 22.42 ft = 3.737 fm = 3 fm 4.42 ft)

TPU (±1.96σ): **THU (TPEh)** ±-1.000 m ; **TVU (TPEv)** ±-1.000 m

Timestamp: 2004-182.16:49:24.942 (06/30/2004)

Survey Line: h11305 / 1211sb / 2004-182 / 286_1633

Profile/Beam: 7309/1

Charts Affected: 11377_1, 11378_6, 11378_7, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

AWOIS 3535

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11305/1211sb/2004-182/286_1633	7309/1	0.00	000.0	Primary
H11305_AWOIS	AWOIS # 3535	177.87	018.9	Secondary

Hydrographer Recommendations

Obstruction identified within search radius of AWOIS 3535. Chart dangerous obstruction.

Cartographically-Rounded Depth (Affected Charts):

22ft (11377_1, 11378_6, 11378_7, 11376_1)

3 ¾fm (1115A_1, 11360_1, 11006_1, 411_1)

S-57 Data

Geo object 1:	Obstruction (OBSTRN)
Attributes:	OBJNAM - AWOIS 3535
	QUASOU - 6:least depth known
	SORDAT - 20070927
	SORIND - US,US,nsurf,H11305
	TECSOU - 1,2:found by echo-sounder,found by side scan sonar
	VALSOU - 6.835 m
	VERDAT - 12:Mean lower low water
	WATLEV - 3:always under water/submerged

Office Notes

Delete AWOIS Item 3535 charted dangerous obstruction, least depth unknown. Chart AWOIS Item 3535 dangerous obstruction, least depth 22 ft at the survey position.

4 - Dangers to Navigation

4.1) Profile/Beam - 299/1 from h11305 / 1211sb / 2006-191 / 190_1035

DANGER TO NAVIGATION

Survey Summary

Survey Position: 30° 14' 05.8" N, 088° 00' 57.9" W

Least Depth: 2.84 m (= 9.32 ft = 1.553 fm = 1 fm 3.32 ft)

TPU (±1.96σ): **THU (TPEh)** ±-1.000 m ; **TVU (TPEv)** ±-1.000 m

Timestamp: 2006-191.10:35:23.686 (07/10/2006)

Survey Line: h11305 / 1211sb / 2006-191 / 190_1035

Profile/Beam: 299/1

Charts Affected: 11377_1, 11378_6, 11378_7, 11376_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Contact identified on 200% SSS coverage. Contact was investigated using SBES in a star pattern. Contact has been designated a wreck based on visual SSS record analysis. Wreck has been determined not to be a DTON due to proximity to previously charted wrecks and lack of deep draft use of object's location, but is a significant object.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11305/1211sb/2006-191/190_1035	299/1	0.00	000.0	Primary
hdcs_data/1211sb/2006-191/190_1035	300/1	0.17	240.2	Secondary

Hydrographer Recommendations

Hydrographer recommends charting submerged wreck at current curvey location.

Cartographically-Rounded Depth (Affected Charts):

9ft (11377_1, 11378_6, 11378_7, 11376_1)

1 ½fm (1115A_1, 11360_1, 11006_1, 411_1)

S-57 Data

Geo object 1: Wreck (WRECKS)

Attributes: CATWRK - 2:dangerous wreck

INFORM - DTON-1

OBJNAM - uncharted wreck

QUASOU - 6:least depth known

SORDAT - 20070927

SORIND - US,US,nsurf,H11305

TECSOU - 1,2:found by echo-sounder,found by side scan sonar

VALSOU - 2.840 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

Office Notes

Concur with clarification. office processing determined a shoaler least depth than the field unit by one foot. Due to the wreck being located along the revised ferry route the feature was submitted as DTON-1 by AHB. Recommend charting dangerous submerged wreck, least depth 9 ft and text "Wk" at the survey position.

Feature Images

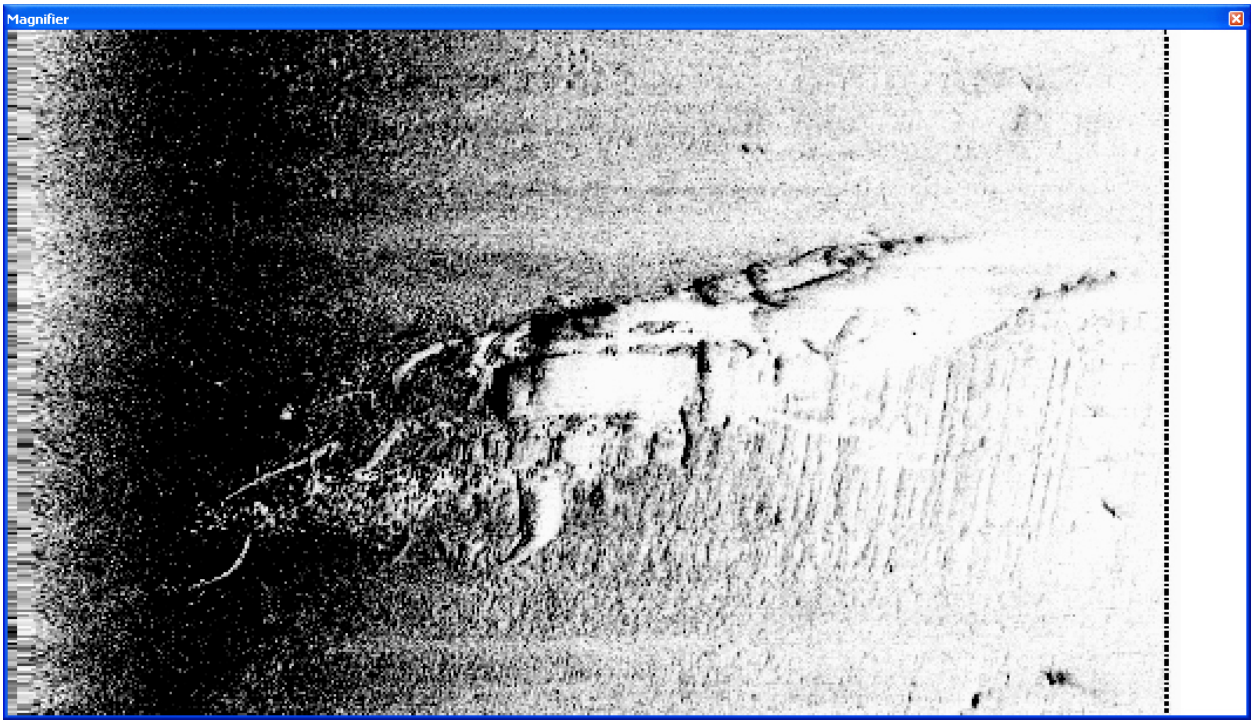


Figure 4.1.1

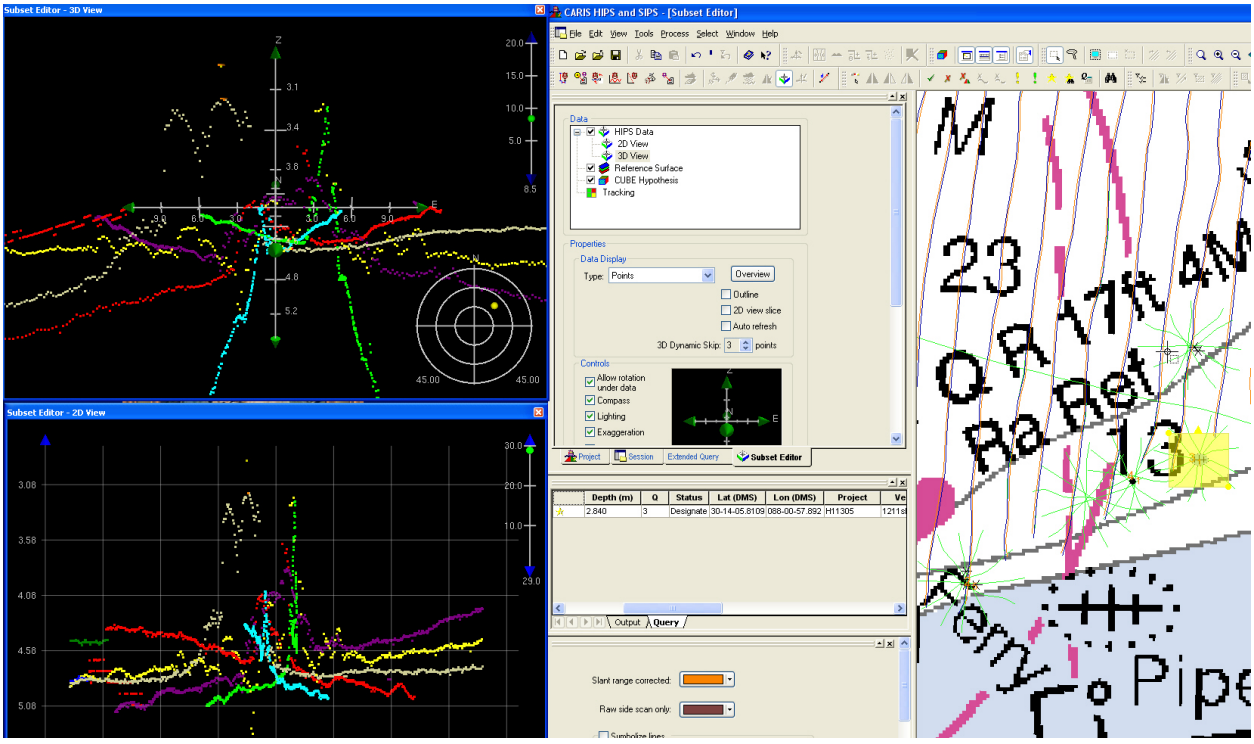


Figure 4.1.2

APPENDIX V
SUPPLEMENTAL CORRESPONDENCE

Subject:
H1305 DToN -1
From:
Edward Owens <edward.owens@noaa.gov>
Date:
Thu, 26 Feb 2009 10:08:42 -0500
To:
NOS OCS MCD Navigation Dangers <mcd.dton@noaa.gov>
CC:
Castle E Parker <Castle.E.Parker@noaa.gov>, Shep Smith <Shep.Smith@noaa.gov>, Tim Osborn <Tim.Osborn@noaa.gov>, James M Crocker <James.M.Crocker@noaa.gov>

Colleagues,

Please find attached a zip file for NRT-1 survey H11305 DtoN report #1 for submission to Marine Chart Division (MCD).

The contents of the attached WinZip file were generated at Atlantic Hydrographic Branch. The attached zip file contains a DtoN Letter (PDF) and a Pydro XML file.

Contact me directly if you have any questions.

Best Regards, Edward

Edward A. Owens <Edward.Owens@NOAA.GOV>
Physical Scientist
Atlantic Hydrographic Branch
NOAA
H11305_DTON-1.zip

Content-Type:
application/x-zip-compressed
Content-Encoding:
base64

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

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE : June 07, 2007

HYDROGRAPHIC BRANCH: Atlantic
HYDROGRAPHIC PROJECT: OPR-J373-NRT1-2005
HYDROGRAPHIC SHEET: H11305

LOCALITY: Entrance to Mobile Bay, Mobile Bay, AL
TIME PERIOD: March 11, 2004 - August 24, 2004
February 22, 2006 - July 10, 2006
TIDE STATION USED: 873-5180 Dauphin Island, AL
Lat. 30° 15.1'N Long. 88° 4.8' W
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 0.361 meters

REMARKS: RECOMMENDED ZONING
Use zone(s) identified as: CGM41, CGM42, CGM42A, CGM43, CGM44, CGM44A, CGM45, CGM46, CGM46A, CGM47 and CGM48

Refer to attachments for zoning information.

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

For _____
CHIEF, PRODUCTS AND SERVICES DIVISION

AHB PRE-COMPILATION PROCESS

REGISTRY No.	**H11305**
PROJECT No.	**OPR-J399-NRT-1-07**
FIELD UNIT	**NRT-1**
PRE-COMPILER	**M. LEONARD TYSON**
LARGEST SCALE CHART	**11378, 35th Ed.,08/03-08/03/22-08/03/18**
CHART SCALE	**1:40,000**
SURVEY SCALE	**1:10,000**
DATE OF SURVEY	**2007/09/27**

Components	File Names
Product Surface	**N/A**
Shifted Surface	**N/A**
Contour Layer	**H11305_CONTOURS**
Survey Scale Soundings	**H11305_SS_Soundings.hob**
Chart Scale Soundings	**H11305_CS_Soundings.hob**
Feature Layer	**H11305_Features.hob**
Meta-Objects Layer	**H11305_MetaObjects_RRV.hob**
Blue Notes	**H11305_BlueNotes.hob**

SPECIFICATIONS:

I. COMBINED SURFACE: **N/A**
   a. File name: ____
   b. Resolution: _____m
   c. Final Grid Location:_____

II. PRODUCT SURFACE (SOUNDINGS):
   a. Scale: Radius:_
   b. Resolution:
   c. Depth
      i. Minimum:
      ii. Maximum:

   PRODUCT SURFACE (CONTOURS): **N/A (Contours were drawn manually)**
   a. Scale: 1:_____
   b. Radius:_____m
   c. Resolution: ___m

III. SHIFTED SURFACE:
   Single Shift Value:_**-0.229**_ *[-0.229m (feet), (≤ 10 fathoms)]*
   [-1.372m (fathoms), (> 10 fathoms)]

IV. CONTOUR LAYER:
   a. Use a Depth List: **H11305_NOAA_depth_curves_list.txt**
      Depth List:

   b. Output Options:
      i. Create contour lines:

1. Line Object: DEPCNT
2. Value Attribute: VALDCO

V. SOUNDING SELECTION:

a. Selection Criteria:

i. Radius
ii. Shoal biased:**YES**
iii. Use Single-Defined Radius: 15 distance on ground (m)
iv. Filter:

VI. FEATURES:

a. Brought in from Survey
Total No. **25**

b. Brought in from ENC
ENC: # **1**
Total No.

VII. META-OBJECTS:

a. M_COVR attributes

Acronym	Value
SORDAT	**2007/09/27**
CATCOV	**1_Coverage Available**
SORIND	**US,US,survy,H11305**

b. M_QUAL attributes

Acronym	Value
CATZOC	**6_U_Data_Not Assessed**
INFORM	**H11305, OPR-J373,NRT-1**
POSACC	**10**
SORDAT	**2007/09/27**
SORIND	**US,US,survy,H11305**
SUREND	**20070927**
SURSTA	**20040312**
TECSOU	**1 VBES**

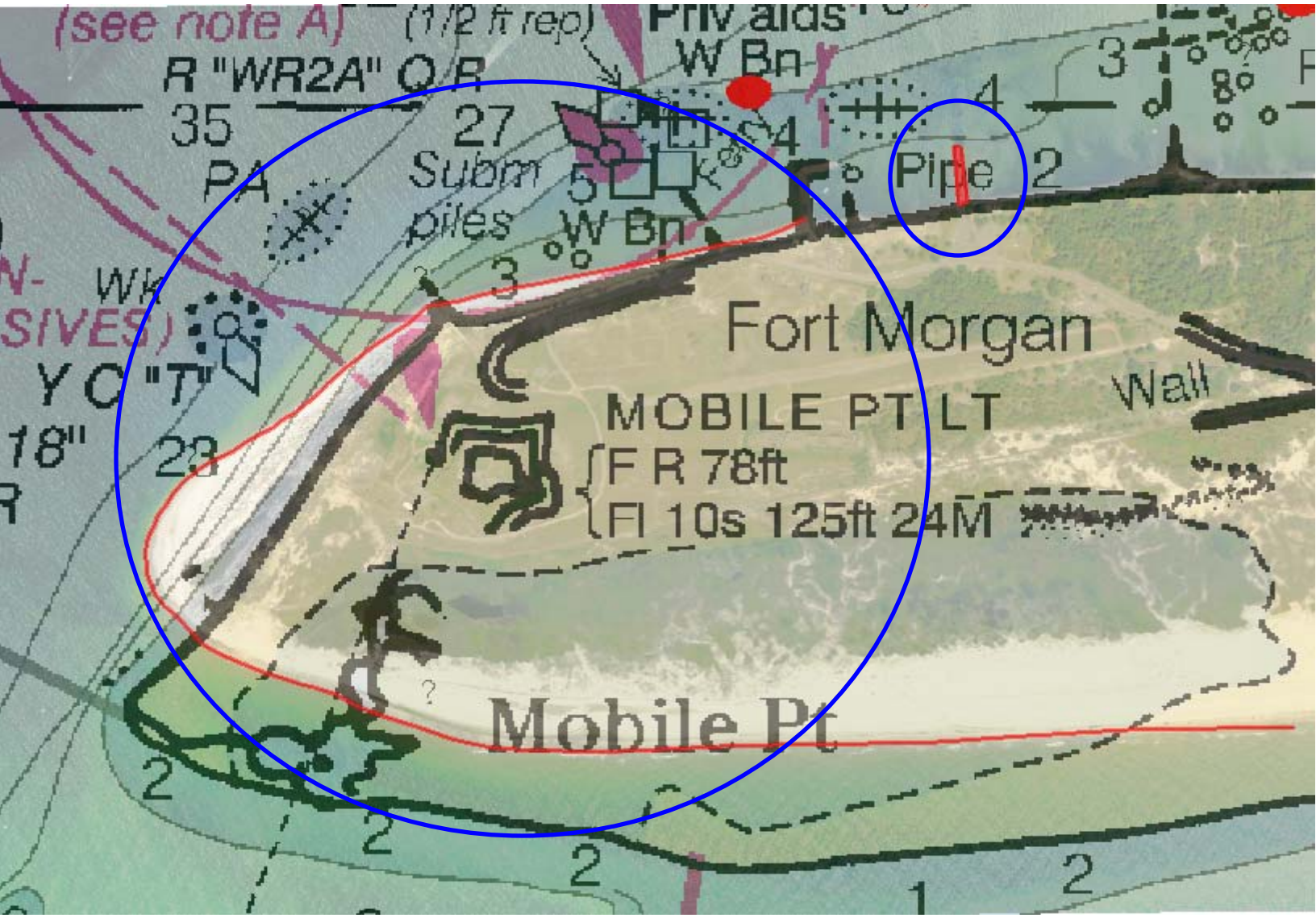
c. DEPARE attributes

Acronym	Value
DRVALV 1	
DRVALV2	
SORDAT	**2007/09/27**
SORIND	**US,US,nsurf,H11305**

d. M_CSCL attributes: **N/A**

Acronym	Value
CSCALE	
SORDAT	
SORIND	

NOTES: Updated shoreline w/ USDA NAIP georeferenced image (Orthoimagery for Zone 16 Alabama State Quarter Quadrangle FORT MORGAN, NE and I.D. # n_3008856_ne_16_1_20060715.tif)
Online source: http://seamless.usgs.gov
(See image below…)


(see note A)
(1/2 ft rep)
Priv aids
W Bn
R "WR2A" Q R
35
27
PA
Subm
piles
W Bn
Pipe
Fort Morgan
MOBILE PT LT
F R 78ft
Fl 10s 125ft 24M
Wall
Mobile Pt

ATLANTIC HYDROGRAPHIC BRANCH
EVALUATION REPORT to Accompany
Survey H11305 (1:10,000)

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 DATA PROCESSING

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.

HSTP PYDRO version 8.7 r2537
CARIS HIPS/SIPS version 6.1 SP1
CARIS Bathy Manager version 2.1
DKART INSPECTOR, version 5.0 Build 732 SP1
CARIS HOM version 3.3
CARIS S57 Composer version 2.0
MAPINFO 9.0 RB36

B.2. QUALITY CONTROL

B.2.1. H-Cell

The AHB source depth grid for the survey's nautical chart update product entailed the creation of a single grid at two meter resolution for all the vertical beam bathymetry. The survey scale selected soundings were extracted from the two meter grid. The selected sounding set is more than 16-32 times the number of charted depths generated at a scale of 1:10,000. The chart scale selected soundings are a subset of the survey scale selected soundings at a scale of 1:40,000. 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 (Stand Alone HOB files (SAHOB)) are detailed in the Pre-Compile Process Log attached at the end of this document. The SAHOB files included, sounding selections (SOUNDG), features (WRECKS, OBSTRN, SBDARE, SLCONS, COALNE, PILPNT), meta objects (M_COVR, M_QUAL,), depth areas (DEPARE) and cartographic Blue Notes ($CSYMB). The individual SAHOB files were inserted into one BASE Editor feature layer and exported to S57 format in order to create the H-Cell deliverable.

The completed H-Cell was exported as an 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 scale units (ENC_CS.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 H11305 CARIS H-Cell final deliverables include the following products:

US511305_CS.000	**1:40,000 Scale**	**H11305 H-Cell with Chart Scale Selected Soundings**
US511305_SS.000	**1:10,000 Scale**	**H11305 Selected Soundings (Survey Scale)**

B.2.2. Junctions

Survey H11305 junctions with survey H11306 of the same project to the west, H11307 to the north, and H11625 to the northeast. Present survey soundings compare within 1 foot with junction surveys. Present survey depths are in harmony with the charted hydrography to the southeast and southwest.

C. VERTICAL AND HORIZONTAL CONTROL

Final vertical correction processing was completed by the field unit/office personnel with no additional correction required by Atlantic Hydrographic Branch. The field unit/office personnel applied verified water levels in conjunction with the final zoning for H11305. Sounding datum is Mean Lower Low Water (MLLW). The operating National Water Level Observation Network (NWLON) station at Dauphin Island (873-5180) served as datum control for the survey area.

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

D.1 CHART COMPARISON:

11377 (7th Edition, 20071001)
Corrected through NM 10/01/2007
Corrected through LNM 01/13/2009
Scale 1:40,000

11378_6 (35th Edition, 20080301)
Corrected through NM 03/01/2008
Corrected through LNM 01/13/2009
Scale 1:40,000

11378_7 (35th Edition, 20080301)
Corrected through NM 03/01/2008
Corrected through LNM 12/30/2008
Scale 1:40,000

ENC Comparison

US5AL13M.000
Mobile Bay Approaches and Lower Half
Edition 22
Update Application Date 2008-09-22
Issue Date 2009-02-12
References: Chart 11377

D.1.1 Hydrography

Mobile Point Shoreline

Office processing identified areas of significant coastline migration occurring in the general vicinity (30-13-36.488N, 088-01-42.112W) of Mobile Point. The coastline migration represents a northerly shift of approximately 970‘ft. from the charted coastline. AHB compared nautical chart 11378, 34th Ed. to orthoimagery and updated the H11305 H-Cell shoreline using a USDA NAIP georeferenced image (orthoimagery for Zone 16 Alabama State Quarter Quadrangle FORT MORGAN, NE I.D. # n_3008856_ne_16_1_20060715.tif;) acquired from an online source: http://seamless.usgs.gov. H11305 H-cell shoreline was hand digitized from the orthoimage. AHB recommends that new RSD imagery be acquired to establish a new MHW shoreline.

USACE Project Depths

All current surveyed sounding in the Mobile Channel have been superseded by US Army Corp of Engineers survey and dredge work. These USACE operations took place in July of 2008 (see also Supplemental Support Data/USACE_Projected Depths_REPORT OF CHANNEL CONDITIONS) located in the AHB survey review folder.

D.2. ADDITIONAL RESULTS

Ft. Morgan/ Ft.Gaines Ferry Terminals
(See Project Suplemental Support Data folder)

AHB branch review of H11305 isolated a significant discrepancy in the current charted ferry terminal location. Currently, the Ft. Morgan Ferry terminal is charted in the wrong location. AHB has updated the GP of the Ferry terminal to reflect the actual location (30-13-57.86N, 088-00-55.974W). This has been noted in the bluenotes (Remove text) and updated in the H11305 H-Cell shoreline using a USDA NAIP georeferenced image (orthoimagery for Zone 16 Alabama State Quarter Quadrangle FORT MORGAN, NE I.D. # n_3008856_ne_16_1_20060715.tif;) acquired from an online source: http://seamless.usgs.gov. H11305 H-cell Ferry Terminal was hand digitized from the orthoimage.

Currently, the Ft. Gaines Ferry terminal is charted in the wrong location. AHB has updated the GP of the Ferry terminal to reflect the actual location (30-15-05.85N, 088-04-54.953W). This has been noted in the bluenotes (Remove text) and updated in the H11305 H-Cell shoreline using a USDA NAIP georeferenced image (orthoimagery for Zone 16 Alabama State Quarter Quadrangle Little Dauphin Island, SW I.D. # n_3008848_sw_16_1_20060623.tif;) acquired from an online source: http://seamless.usgs.gov. H11305 H-cell Ferry Terminal was hand digitized from the orthoimage.

D.2.1. Aids to Navigation

All ATON's addressed and positioned are discussed in the DR. AHB recommends deferring the charting disposition of these navigational aids to Marine Chart Division, Nautical Data 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 in the H-Cell File should be retained as charted. Refer to the Descriptive Report for further recommendations by the hydrographer.

APPROVAL SHEET
H11305

Initial Approvals:

The completed survey has been inspected with regard to survey coverage, delineation of depth curves, and representation of critical depths, cartographic symbolization, and verification or disproval of charted data. All revisions and additions made to the H-Cell files during survey processing have been entered in the digital data for this survey. The survey records and digital data comply with National Ocean Service and Office of Coast Survey requirements except where noted in the Descriptive Report and the Evaluation Report.

All final products have undergone a comprehensive reviews per the Hydrographic surveys Division Office Processing Manual and are verified to be accurate and complete except where noted.

M. Leonard Tyson
Digitally signed by M. Leonard Tyson
DN: cn=M. Leonard Tyson, o=NOAA, ou=AHB, email=leonard.tyson@noaa.gov, c=US
Date: 2009.02.26 13:50:41 -05'00'

Leonard Tyson
Hydrographic Intern
Atlantic Hydrographic Branch

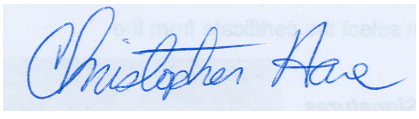
Edward Owens
I am the author of this document
2009.02.24 14:34:56 -05'00'

Edward A. Owens
Physical Scientist
Atlantic Hydrographic Branch

I have reviewed the H-Cell files, accompanying data, and reports. This survey and accompanying Marine Chart Division deliverables meet National Ocean Service requirements and standards for products in support of nautical charting except where noted.

Approved: _
Digitally signed by Shepard Smith
DN: cn=Shepard Smith, o=NOAA, ou=AHB, email=shep.smith@noaa.gov, c=US
Date: 2009.02.26 12:23:31 -05'00'

Shepard Smith
Lieutenant Commander, NOAA
Chief, Atlantic Hydrographic Branch



Christopher Hare
AWOIS/SURF Check
2009.03.04 09:34:35 -05'00'