NOAA FORM 76-35A

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

DESCRIPTIVE REPORT

Type of Survey **Hydrographic**

Registry No. **H11386**

LOCALITY

State/Territory Mississippi

General Locality Mississippi Sound

Sub-locality Vicinity of Horn Island Pass

2005

CHIEF OF PARTY
Mark J. McMann -Team Leader

LIBRARY & ARCHIVES
DATE

NOAA FORM 77-28U.S. DEPARTMENT OF COMMERCE (11-72)NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	REGISTRY NUMBER:
HYDROGRAPHIC TITLE SHEET	**H11386**
INSTRUCTIONS: The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.	FIELD NUMBER: N/A

State/Territory:	**Mississippi**
General Locality:	**Mississippi Sound**
Sub-Locality:	**Vicinity of Horn Island Pass**
Scale: 1:10,000	Date of Survey: January 11, 2005 (DN: 11) to July 12, 2005(DN: 193)
Instructions Dated:	November 9, 2004 Project Number: **OPR-J376-NRT4-04**
Vessel:	**NOAA Launch 1211 & 3001**
Chief of Party:	**Mark J. McMann - Team Leader**
Surveyed by:	**Mark McMann, Emily LaDuca , Lucy Massimillo, Jason McDannold, & Sarah Borakove**
Soundings by:	**Innerspace 455 & Odom Echotrac C/V**
Graphic record scaled by:	**MM, EL , JM, LM, SB**
Graphic record checked by:	**MM, EL, JM, LM, SB**
Protracted by:	**N/A** Automated Plot: **HP-750C plus**
Verification by:	**Atlantic Hydrographic Branch**
Soundings in:	**Meters at MLLW**

Remarks: ***1) All time is UTC.***

2) This is a basic Hydrographic Survey under the Navigable Area Concept.

3) Projection is UTM Zone 16.

Bold, Red, Italic notes were made during office processing.

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A. AREA SURVEYED

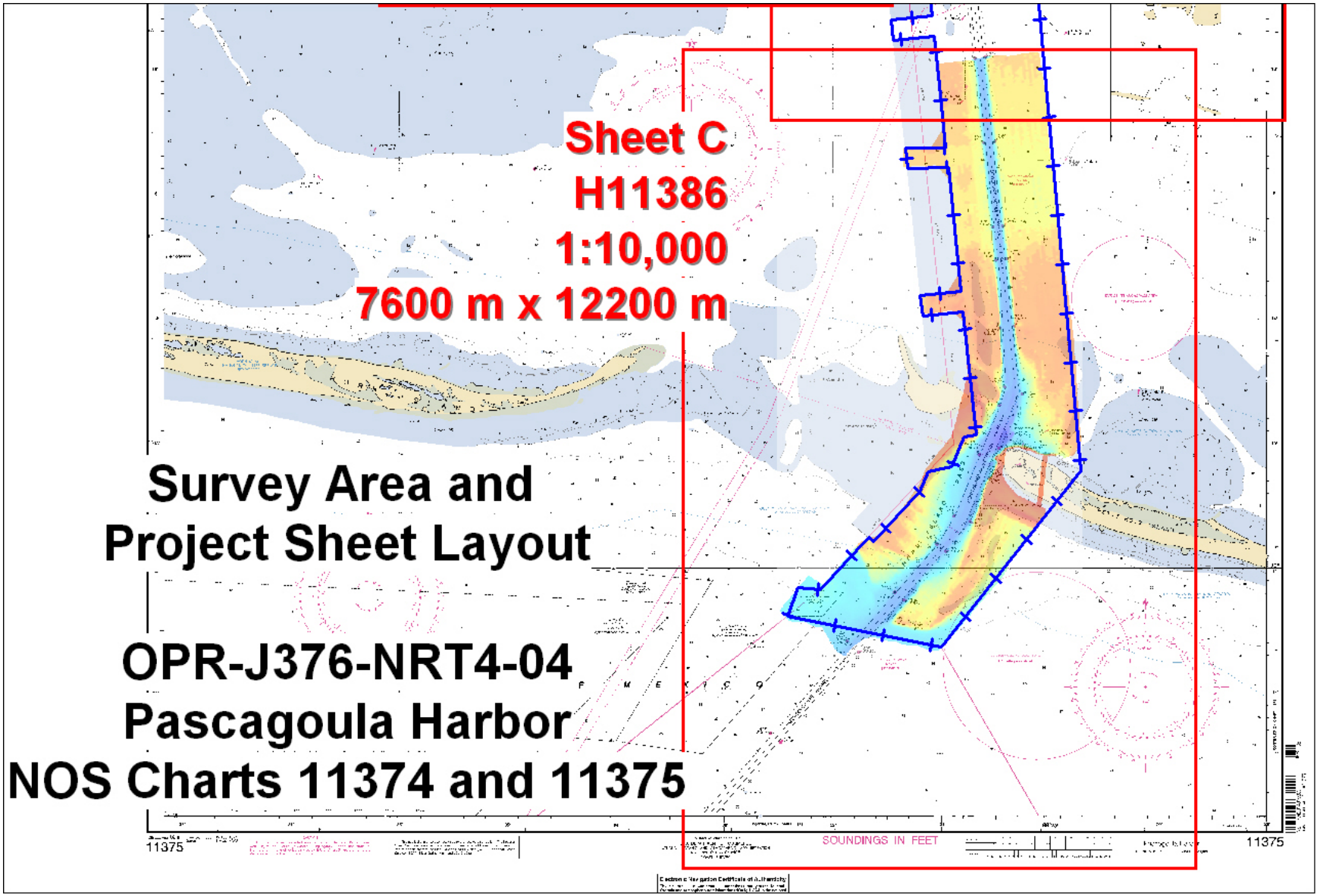
This hydrographic survey was conducted in accordance with Hydrographic Port Instructions for project OPR-J376-NRT4-04, Pascagoula Bay, Mississippi. The instructions are dated November 9, 2004.

The Port of Pascagoula has been identified by MCD in 2004 as a priority major port ready for Chart Evaluation. Additionally, the U.S. Naval Station Port of Pascagoula is expanding its operations to accommodate larger vessels. Significant changes have occurred in the facilities and shoreline in Pascagoula Harbor both in the Pascagoula River Area and also the East Harbor.
.

Survey Limits for Sheet “C” H11386 are as follows:

North 30°16’09.7”N
East 088°28’38.5” W
South 30°09’34.7” N
West 088°33’23” W

Survey Dates: January 11, 2005 (DN: 11) to July 12, 2005 (DN: 193)
Survey limits are displayed graphically on the following page.


Sheet C
H11386
1:10,000
7600 m x 12200 m
Survey Area and
Project Sheet Layout
OPR-J376-NRT4-04
Pascagoula Harbor
NOS Charts 11374 and 11375
11375
SOUNDINGS IN FEET
11375

B. DATA ACQUISITION AND PROCESSING

B.1. EQUIPMENT

Data was acquired by Navigation Response Team 1, on board survey Launches 1211 and 3001. These vessels were configured as described in the Data Acquisition and Processing Report (DAPR)* for this project. Major data acquisition systems are summarized below. ***Concur.***

An Innerspace model 455 depth sounder was used on Launch 1211 to collect soundings on this survey. An Odom Echotrac C/V model depth sounder was used on Launch 3001 to collect echo soundings on this survey. A standard lead line calibrated in meters, S/N 1211, was used during this survey for comparison with the echo sounders. No problems were encountered with any of the sounding equipment. ***Concur.***

Two Klein 3110 side scan sonar recorders with model 3210 towfish were used throughout this survey. The side scan sonar equipment was used to collect 200% bottom coverage and investigate AWOIS items. ***Concur.***

Trimble DGPS Beacon Receivers were used as the primary navigation stations on both Launch 1211 and Launch 3001. ***Concur.***

A Trimble Pathfinder ProXRS (S/N 0224049380) and antennae (S/N 0220284585) were used for all ENC high accuracy positioning and establishment of calibration points. ***Concur.***

A Seabird-SeaCat Velocity Profiler model 19-03 (S/N 192276-0287) and an Odom Digibar (S/N 98294-080904) were used for determining corrections for the speed of sound through the water column on launch 1211. An Odom Digibar (S/N 98150-020205) was used on launch 3001. ***Concur.***

NOAA launches 1211 and 3001, 27-foot SeaArk's with drafts of 0.5 meters, were used to collect survey data. There were no unusual vessel configurations or problems encountered with these launches. ***Concur.***

B.2. QUALITY CONTROL

The integrity of the survey data for H11386 has been insured by following the Field Procedures Manual and the NOS Hydrographic Surveys Specifications and Deliverables Manual, June 2003. ***Concur.***

The lead line for launches 1211 and 3001 was calibrated using a steel tape on April 4, 2003 (DN:094). No corrections were necessary. A static draft of 0.5 meters was applied to the sounding plots by the Caris program. Launch 1211's draft was measured by subtracting the difference from a punch mark on the side of the Launch, 0.6 meter above the transducer, to the water surface. Launch 3001's draft was measured by the same method. ***Concur.***

Settlement and squat measurements for launch 1211 were taken on April 4, 2003 (DN:094) These measurements were conducted in New Orleans, LA on the Gulf Intracoastal Waterway using the level method. Settlement and squat correctors were applied to the sounding plots using the Caris program. ***Concur.***

Differential GPS (DGPS) was used for all hydrographic data acquired on this survey. DGPS performance checks were conducted in accordance with FPM 3.4.4 by comparing the DGPS position of the vessel to a high accuracy (1st order) calibration point. ***Concur.***

Side Scan Sonar Quality Control

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 high and low frequency (100/500Hz). ***Concur.***

As water depth and/or hazards permitted, 200% bottom coverage was obtained wherever possible within the required survey areas and AWOIS item search radii. Side scan sonar coverage was conducted to the 12-foot depth curve and single beam reduced line spacing was performed in other areas where warranted. The towfish was deployed off the starboard quarter of the vessel, which proved very stable. All contacts and shadows were scaled and entered into Caris HIPS/SIPS to determine the height off the bottom. The significant contacts were then compared by position, as well as common depth and relationship to channels to determine if further investigations were needed. All areas surveyed were track line/swath line plotted to insure complete coverage. ***Concur.***

The system frequencies used were 100kHz and 500 kHz. The recorder was set on the 50-meter range scale. There were no water depths greater than 20 meters. ***Concur.***

When operating in shoal waters (e.g. less than 30 meters deep), a short tow was required for the Klein system. When cable-out was approximately 7 meters or less, minor degradation of the side scan imagery and Innerspace echosounder traces were noted due to cross-talk between the two systems. ***Concur.***

Cross lines and main scheme sounding data were compared using MAPINFO 7.8, without significant discrepancies observed. ***Concur.***

Junctions

There were no junction areas to compare. ***Concur.***

B.3. CORRECTIONS TO ECHO SOUNDING

A table detailing all sound velocity casts is contained in Separates III - Sound Velocity Profile Data. Sound velocity data has been submitted with the digital data package. Cast data is organized on the digital media as follows: vessel / day of cast / cast data. ***Concur.***

After collecting 9,999 fixes, the data collection software reset the fix number to 1. This has no effect on data quality. ***Concur.***

The instruments used for determining corrections for the speed of sound through the water column were a Seabird-Seacat Velocity Profiler and (2) Odom Digibar's. All sound velocity probes were calibrated within the last 12 months. Data quality assurance tests were performed after each cast. Program VELOCWIN was used for computing the correctors. Corrections were applied to the sounding plot using the Caris Hips & Sips 5.4. ***Concur.***

C. VERTICAL AND HORIZONTAL CONTROL

Field tide reduction of soundings is based on actual unverified tides from the Internet NOAA Co-Ops site. The Dauphin Island, AL tidal gauge (873-5180) was the reference station. In addition, two thirty day gauges were installed, one at Horn Island (874-0405), and another at Pascagoula City Pier (874-1196). Values and correctors were applied at the perspective locations of Hydrography from the Zone files provided by CO-OPS/RDD. ***Final tide zoning and final water levels were applied during office processing.***

All elevations and soundings on survey H-11384 are based on MLLW unless otherwise specified. ***Concur.***

A Request for Approved Tides letter was sent to N/OPS1 on July 26, 2005 (Appendix IV******).

Horizontal Control

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

Horizontal dilution of precision (HDOP) was monitored on Hypack PC daily. The value never exceeded 4.00, and adequate satellite coverage was maintained throughout the survey period. All positioning equipment was operated in a manner consistent with the manufacturer's requirements and as described in the DAPR******. There were no equipment malfunctions which affected the positional quality of the data. ***Concur.***

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

D. RESULTS AND RECOMMENDATIONS *See Evaluation Report.*

D.1. CHART COMPARISON

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

Chart Number	Edition	Edition Date	Next Planned Edition*
~~11363~~	~~39th~~	~~September, 2003~~	~~September 1, 2006~~
11373	43rd	September, 2003	March 1, 2005
11374	32nd	October, 2003	April 1, 2005
11375	35th	August, 2002	June, 2005 *
~~11379~~	~~2nd~~	~~December, 2002~~	~~July, 2005 *~~

There ~~are three~~ ***is one*** ENC ~~cells~~ affected by this survey:

ENC Cell	Last Updated	Corresponding Chart	Version
~~US4MS12M~~	~~09/29/04~~	~~11373~~	~~2~~
~~US5MS21M~~	~~08/13/04~~	~~11374~~	~~2~~
US5MS22M	10/26/04	11375	2

General Agreement with Charted soundings
General agreement of soundings north of Horn Island Pass less three feet. South of Horn Island Pass is difficult to generalize because depth comparisons do not follow a discernable pattern. The largest differences are between 6-10 feet and are especially apparent along contours. ***Concur.***

The following is a list of charted items that were investigated or disproved by 200% side scan sonar:

1.) A charted note 'Sediment trap (inactive)' at Lat. 30º 12' 57.01" N, Lon. 88º 30' 25.99" W, was found to have a least depth of 30 feet. Soundings directly east shoal quickly as Petit Bois Island is 100m east. ***Do not concur. Sediment trap (inactive) has a least depth of 8 feet.***

2.) A charted 'Obstn PA' at Lat. 30º 12' 59.24" N, Lon. 88º 30' 15.7" W, was covered by 200% SSS and SBES and no obstructions were found. Hydrographer recommends removing Obstn PA from chart. ***Concur.***

3.) A charted note 'Sediment Trap' at Lat. 30º 12' 52.3" N, Lon. 88º 30' 31.24" W, was found to have a least depth of 25 feet. Directly east of the trap there is a sounding with a least depth of 18 feet. Depths become increasingly shallow moving east towards Petit Bois Island. ***Do not concur. Sediment Trap has a least depth of 22 feet with an eight foot sounding just to the East of it.***

4.) A charted note 'Disposal Area (discontd) depths from surveys of 1917-1988' at Lat 30º 11' 45.04" N, Lon. 88º 32' 10.14" W, was found to have a least depth of 26 feet. The hydrographer recommends removal of the note and charting of current survey soundings. ***Concur with***

clarification. The least depth in the Disposal Area (discontd) is 26 feet, defer to MCD for charting recommendation.

5.) A charted note 'Sediment Trap' stretching 840m along the channel, was found to have a least depth of 31 feet at Lat. 30º 11' 40.31" N, Lon. 88º 31' 23.5 W. ***Do not concur. Sediment Trap has a least depth of 27 feet.***

6.) A charted 10 foot shoal centered at Lat. 30º 11' 54.21" N, Lon. 88º 30' 36.62 W was found not to exist by 200% SSS and SBES data. ***Concur.***

AWOIS Item Investigations

There were ten AWOIS items within the survey limits. All ten of the items were not within the limits of hydrography, however were resolved during main scheme operations. None of the features were found, and were covered by 200% side scan sonar coverage. ***Do not concur. See Evaluation Report.***

Dangers to Navigation

There were no dangers to navigation reported on H11386. ***Do not concur. Four DtoNs were submitted during office processing. For more information see Appendix I*.***

D. 2. ADDITIONAL RESULTS

Aids to Navigation and Other Detached Positions

All Navigation Aids serve their intended purpose. ***Concur.***

All floating aids were positioned by the survey vessels and are on station. ***Concur.***

Ferry Routes

There are no ferry routes within the confines of H11386. ***Concur.***

Submarine Cables and Pipelines

There are no cables or pipelines. ***Concur.***

Bridges

There are no bridges. ***Concur.***

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

E. APPROVAL SHEET

OPR-G376

Hydrographic Survey
Mississippi Sound, MS
Survey Registry No. H11386

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:

Mark J. McMann - Team Leader
Emily A. LaDuca- ECO
Navigation Response Team 1

APPENDIX I

DANGERS TO NAVIGATION REPORT

H11386 Dangers to Navigation

Registry Number: H11386

State: Mississippi

Locality: Mississippi Sound

Sub-locality: Vicinity of Horn Island Pass

Project Number: OPR-J376-NRT4-04

Survey Dates: 05/26/2005 - 06/23/2005

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11375	36th	01/01/2005	1:20,000 (11375_1)	USCG LNM: 05/13/2008 (05/20/2008) NGA NTM: 11/18/2006 (05/24/2008)
11374	32nd	10/01/2003	1:40,000 (11374_1)	[L]NTM: ?
11373	44th	01/01/2005	1:80,000 (11373_1)	[L]NTM: ?
11366	9th	03/01/2005	1:250,000 (11366_1)	[L]NTM: ?
11360	41st	03/01/2005	1:456,394 (11360_1)	[L]NTM: ?
1115A	41st	03/01/2005	1:456,394 (1115A_1)	[L]NTM: ?
11006	31st	09/01/2003	1:875,000 (11006_1)	[L]NTM: ?
411	49th	03/01/2003	1:2,160,000 (411_1)	[L]NTM: ?

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

Features

No.	Name	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	DTON 1 - 19FT Sounding	Shoal	5.86 m	30° 12' 03.9" N	088° 31' 38.9" W	---
1.2	DTON 2 - 13FT Sounding	Shoal	3.92 m	30° 12' 12.5" N	088° 31' 32.3" W	---
1.3	DTON 3 - 20FT Sounding	Shoal	6.04 m	30° 12' 19.7" N	088° 31' 55.9" W	---
1.4	DTON 4 - 16FT Sounding	Shoal	4.86 m	30° 12' 12.3" N	088° 31' 45.2" W	---

1 - Danger To Navigation

1.1) DTON 1 - 19FT Sounding

DANGER TO NAVIGATION

Survey Summary

Survey Position: 30° 12' 03.9" N, 088° 31' 38.9" W

Least Depth: 5.86 m (= 19.23 ft = 3.205 fm = 3 fm 1.23 ft)

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

Timestamp: 2005-146.15:02:32.160 (05/26/2005)

Survey Line: h11386 / 1211sb / 2005-146 / 020_1450

Profile/Beam: 7020/1

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

[None]

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11386/1211sb/2005-146/020_1450	7020/1	0.00	000.0	Primary

Hydrographer Recommendations

[None]

Cartographically-Rounded Depth (Affected Charts):

19ft (11375_1, 11374_1, 11373_1)

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

3fm 1ft (11366_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)

Attributes: EXPSOU - 2:shoaler than range of depth of the surrounding depth area

QUASOU - 1:depth known

TECSOU - 1:found by echo-sounder

VERDAT - 12:Mean lower low water

Office Notes

Chart current survey soundings.

1.2) DTON 2 - 13FT Sounding

DANGER TO NAVIGATION

Survey Summary

Survey Position: 30° 12' 12.5" N, 088° 31' 32.3" W

Least Depth: 3.92 m (= 12.86 ft = 2.143 fm = 2 fm 0.86 ft)

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

Timestamp: 2005-146.17:29:35.144 (05/26/2005)

Survey Line: h11386 / 1211sb / 2005-146 / 043_1718

Profile/Beam: 6322/1

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

[None]

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11386/1211sb/2005-146/043_1718	6322/1	0.00	000.0	Primary

Hydrographer Recommendations

[None]

Cartographically-Rounded Depth (Affected Charts):

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

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

2fm 1ft (11366_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)

Attributes: EXPSOU - 2:shoaler than range of depth of the surrounding depth area

QUASOU - 1:depth known

TECSOU - 1:found by echo-sounder

VERDAT - 12:Mean lower low water

Office Notes

Chart current survey soundings.

1.3) DTON 3 - 20FT Sounding

DANGER TO NAVIGATION

Survey Summary

Survey Position: 30° 12' 19.7" N, 088° 31' 55.9" W

Least Depth: 6.04 m (= 19.81 ft = 3.301 fm = 3 fm 1.81 ft)

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

Timestamp: 2005-165.14:34:46.855 (06/14/2005)

Survey Line: h11386 / 1211sb / 2005-165 / 009_1433

Profile/Beam: 1008/1

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

[None]

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11386/1211sb/2005-165/009_1433	1008/1	0.00	000.0	Primary

Hydrographer Recommendations

[None]

Cartographically-Rounded Depth (Affected Charts):

20ft (11375_1, 11374_1, 11373_1)

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

3fm 2ft (11366_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)

Attributes: EXPSOU - 2:shoaler than range of depth of the surrounding depth area

QUASOU - 1:depth known

TECSOU - 1:found by echo-sounder

VERDAT - 12:Mean lower low water

Office Notes

Chart current survey soundings.

1.4) DTON 4 - 16FT Sounding

DANGER TO NAVIGATION

Survey Summary

Survey Position: 30° 12' 12.3" N, 088° 31' 45.2" W

Least Depth: 4.86 m (= 15.96 ft = 2.660 fm = 2 fm 3.96 ft)

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

Timestamp: 2005-174.15:30:24.326 (06/23/2005)

Survey Line: h11386 / 1211sb / 2005-174 / 008_1524

Profile/Beam: 2771/1

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

[None]

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11386/1211sb/2005-174/008_1524	2771/1	0.00	000.0	Primary

Hydrographer Recommendations

[None]

Cartographically-Rounded Depth (Affected Charts):

16ft (11375_1, 11374_1, 11373_1)

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

2fm 4ft (11366_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)

Attributes: EXPSOU - 2:shoaler than range of depth of the surrounding depth area

QUASOU - 1:depth known

TECSOU - 1:found by echo-sounder

VERDAT - 12:Mean lower low water

Office Notes

Chart current survey soundings

APPENDIX II
SURVEY FEATURES REPORT

H11386 - AWOIS Items

Registry Number: H11386

State: Mississippi

Locality: Mississippi Sound

Sub-locality: Vicinity of Horn Island Pass

Project Number: OPR-J376-NRT4-04

Survey Date:

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11375	36th	01/01/2005	1:20,000 (11375_1)	USCG LNM: 05/13/2008 (05/20/2008) NGA NTM: 11/18/2006 (05/24/2008)
11374	32nd	10/01/2003	1:40,000 (11374_1)	[L]NTM: ?
11373	44th	01/01/2005	1:80,000 (11373_1)	[L]NTM: ?
11366	9th	03/01/2005	1:250,000 (11366_1)	[L]NTM: ?
11360	41st	03/01/2005	1:456,394 (11360_1)	[L]NTM: ?
1115A	41st	03/01/2005	1:456,394 (1115A_1)	[L]NTM: ?
11006	31st	09/01/2003	1:875,000 (11006_1)	[L]NTM: ?
411	49th	03/01/2003	1:2,160,000 (411_1)	[L]NTM: ?

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

Features

No.	Name	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	UNKNOWN	AWOIS	[no data]	[no data]	[no data]	---
1.2	MISS KIM WAN	AWOIS	[no data]	[no data]	[no data]	---
1.3	UNKNOWN	AWOIS	[no data]	[no data]	[no data]	---
1.4	UNKNOWN	AWOIS	[no data]	[no data]	[no data]	---
1.5	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
1.6	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
1.7	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
1.8	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
1.9	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---

1.10	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
1.11	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
1.12	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
1.13	WANDA FOUR	AWOIS	[no data]	[no data]	[no data]	---
1.14	IRONSIDE	AWOIS	[no data]	[no data]	[no data]	---
1.15	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
1.16	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
1.17	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---
1.18	OBSTRUCTION	AWOIS	[no data]	[no data]	[no data]	---

1 - DR_AWOIS

1.1) AWOIS #12608 - UNKNOWN

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 13' 56.9" N, 088° 30' 28.8" W

Historical Depth: [None]

Search Radius: 200

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

Technique Notes: [None]

History Notes:

SOURCE UNKNOWN-- ITEM APPEARS ON STANDARD BETWEEN 1970 AND 1973. NO OTHER INFORMATION COULD BE FOUND. THE AMOUNT OF TIME SPENT TO FURTHER DETERMINE SOURCE WOULD NOT PROVE TO BE BENEFICIAL.■■H-11386 OPR-J376 NRT4-04■Entire readius convered by 200% SSS and SBES. Only contact to be found was G'23" FL G 2.5s.

Survey Summary

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Area surveyed with 200% SSS and SBES and nothing found

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-J376-Pascagoula-AWOIS	AWOIS # 12608	0.00	000.0	Primary

Hydrographer Recommendations

Remove Wr ED from chart.

S-57 Data

[None]

Office Notes

Concur. Delete WK ED.

1.2) AWOIS #12592 - MISS KIM WAN

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 11' 60.0" N, 088° 31' 60.0" W

Historical Depth: [None]

Search Radius: 900

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

Technique Notes: SEARCH NOT REQUIRED WITHIN SPOIL AREA

History Notes:

LNM 22/03--6/3/03; THE 55-FOOT FISHING VESSEL MISS KIM WAN, HAS REPORTEDLY SUNK IN THE GULF OF MEXICO, NEAR HORN ISLAND PASS IN APPROXIMATE POSITION 30°12'N 88°32'W. RECENT SEARCHES HAVE FAILED TO LOCATE THE WRECK. MARINERS ARE URGED TO USE EXTREME CAUTION IN THE AREA.■■H-11386 OPRJ376-NRT4-04■Entire radius was surveyed w/ 200% SSS and SBES and a possible contact was found.Reposition Wr PA to contact investigated.

Survey Summary

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Entire radius of AWOIS 12592 was surveyed w/ 200% SSS and SBES and a possible contact was found.

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-J376-Pascagoula-AWOIS	AWOIS # 12592	0.00	000.0	Primary
h-11386/1211sss500k/2005-146/p050526182200	0001	417.31	270.3	Secondary
h11386/1211sb/2005-165/009_1433	1007/1	620.53	190.3	Secondary
h11386/1211sb/2005-165/009_1433	1006/1	620.79	190.3	Secondary
h11386/1211sb/2005-165/009_1433	1005/1	621.04	190.3	Secondary

Hydrographer Recommendations

Reposition Wr PA to contact investigated.

S-57 Data

[None]

Office Notes

Do not concur. Item found by field unit is not significant and is not a WK. Remove charted WK PA. Considered disproved using 200%SSS

1.3) AWOIS #12593 - UNKNOWN

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 13' 05.6" N, 088° 30' 03.5" W

Historical Depth: [None]

Search Radius: 0

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

Technique Notes: [None]

History Notes:

NO SOURCE FOUND. ITEM IS CHARTED AS A "PILE PA". PILE IS PROBABLY REMNANT OF STRUCTURE THAT ONCE HELD A LIGHT THAT HAS BEEN RELOCATED VERY NEAR BY.■■■H-11386 OPR J376 NRT4-04 ■Search criteria met w/ 200% SSS and SBES w/in search area. Contact found and investigated w/ SBES.Remove PA from chart.

Survey Summary

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Search criteria met w/ 200% SSS and SBES w/in search area. Contact found and investigated w/ SBES.

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-J376-Pascagoula-AWOIS	AWOIS # 12593	0.00	000.0	Primary
h-11386/1211sss500k/2005-095/p050405165100	0002	8.63	022.1	Secondary

Hydrographer Recommendations

Remove PA from chart.

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes: INFORM - Search criteria met w/ 200% SSS and SBES w/in search area. Contact found and investigated w/ SBES..

Office Notes

Concur. Delete PA text and update Pile position.

1.4) AWOIS #12607 - UNKNOWN

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 15' 48.7" N, 088° 31' 00.1" W

Historical Depth: [None]

Search Radius: 200

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

Technique Notes: SEARCH NOT REQUIRED WITHIN SPOIL AREA

History Notes:

LNM 26/77--"A 39FT FISHING VESSEL HAS BEEN REPORTED SUNK IN APPROXIMATE POSITION LAT. 30 15 48N, LONG 88 31 00W, OR ABOUT 200 YARDS WEST OF PASCAGOULA SHIP CHANNEL BUOY 25. WRECK IS TEMPORARILY MARKED WITH A LIFEJACKET. SALVAGE OPERATIONS MAY BE IN PROGRESS."■■H-11386 OPR-J376 NRT4-04■Half of Radius SSS'd; Western half not surveyed due to shoal depth; No contacts found.■AWOIS item 12607 no found. Remove from chart.

Survey Summary

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Half of Radius SSS'd; Western half not surveyed due to shoal depth; No contacts found.

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-J376-Pascagoula-AWOIS	AWOIS # 12607	0.00	000.0	Primary

Hydrographer Recommendations

AWOIS item 12607 no found. Remove from chart.

S-57 Data

[None]

Office Notes

Concur. Remove charted Wk PA.

1.5) AWOIS #12609 - OBSTRUCTION

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 12' 49.3" N, 088° 29' 57.0" W

Historical Depth: [None]

Search Radius: 200

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

Technique Notes: [None]

History Notes:

L-1523/84--POWER SQUADRON REPORT OF A TRIANGLE SHAPED STEEL OBSTRUCTION 175 FEET N,NW OF THE WEST END PETIT BOIS ISLAND. 1 FOOT BELOW SURFACE IN 4FT TO 6FT WATER. POWER SQUADRON MEMBER OBTAINED GP USING BEARING AND DISTANCE.■■H-11386 NRT4-04 OPR-J376■AWOIS #12609 not found. 3/4 of radius not surveyed due to shoal depths in area.■Hydrographer recommends removing item from chart.

Survey Summary

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

AWOIS #12609 not found. 3/4 of radius not surveyed due to shoal depths in area.

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-J376-Pascagoula-AWOIS	AWOIS # 12609	0.00	000.0	Primary

Hydrographer Recommendations

Hydrographer recommends removing item from chart.

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes: WATLEV - 3:always under water/submerged

Office Notes

Do not concur. Retain Obstn PA as charted.

1.6) AWOIS #12610 - OBSTRUCTION

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 12' 43.0" N, 088° 30' 33.9" W

Historical Depth: [None]

Search Radius: 150

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

Technique Notes: [None]

History Notes:

LNM 06/86--"A 8500 POUND CONCRETE SINKER AND 60FT OF 1.25 INCH CHAIN IS REPORTED SUNK IN THE VICINITY OF HORN ISLAND PA LIGHTED BUOY 10 (LLNR 2551), IN APPROXIMATE POSITION 30-12-42.3N, 88-30-33.5W."■■H-11386 NRT4-04 OPR-J376 ■90% of AWOIS #12610 SSS 200% w/ SBES. One contact found. Retain as charted.

Survey Summary

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

90% of AWOIS #12610 SSS 200% w/ SBES. One contact found.

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-J376-Pascagoula-AWOIS	AWOIS # 12610	0.00	000.0	Primary
h11386/1211sss500k/2005-158/p050607172000	0004	7.92	189.2	Secondary
h11386/1211sss500k/2005-103/p050413155500	0001	14.91	211.1	Secondary

Hydrographer Recommendations

Retain as charted.

S-57 Data

[None]

Office Notes

Do not concur. Contact found is a buoy block. No other contacts found. Remove charted Obstn PA.

1.7) AWOIS #12611 - OBSTRUCTION

No Primary Survey Feature for this AWOIS Item

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

Historical Depth: [None]

Search Radius: 60

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

Technique Notes: [None]

History Notes:

FE-315SS--THIS OBSTRUCTION WAS NOTED ON THE SONOGRAMS DURING OFFICE PROCESSING OF THE FIELD DATA FROM FE-315SS. THE RECOMMENDATION WAS TO HAVE A FUTURE FIELD PARTY INVESTIGATE WHEN APPROPRIATE.■■H-11386 NRT4-04 OPR-J376■AWOIS 12611 surveyed w/ 200% and SBES. No contact found■Area survey w/ 200% SSS and SBES and no significant contact determined.■Remove Obstn OBStn (23ft rep) and (21ft rep) from chart

Survey Summary

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

AWOIS 12611 surveyed w/ 200% and SBES. No contact found

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-J376-Pascagoula-AWOIS	AWOIS # 12611	0.00	000.0	Primary

Hydrographer Recommendations

Area survey w/ 200% SSS and SBES and no significant contact determined. Remove Obstn OBStn (23ft rep) and (21ft rep) from chart

S-57 Data

[None]

Office Notes

Concur. Remove charted Obstns.

1.8) AWOIS #12612 - OBSTRUCTION

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 11' 34.1" N, 088° 31' 15.5" W

Historical Depth: [None]

Search Radius: 60

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

Technique Notes: [None]

History Notes:

FE-315SS--THIS OBSTRUCTION WAS NOTED ON THE SONOGRAMS DURING OFFICE PROCESSING OF THE FIELD DATA FROM FE-315SS. THE RECOMMENDATION WAS TO HAVE A FUTURE FIELD PARTY INVESTIGATE WHEN APPROPRIATE.■■H-11386 OPR-J376 NRT4-04■AWIOS #12612 200% SSS converage. No contacts found.■Remove item from chart.

Survey Summary

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

AWIOS #12612 200% SSS converage. No contacts found.

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-J376-Pascagoula-AWOIS	AWOIS # 12612	0.00	000.0	Primary

Hydrographer Recommendations

Remove item from chart.

S-57 Data

[None]

Office Notes

Concur. Remove charted Obstns.

1.9) AWOIS #12613 - OBSTRUCTION

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 11' 23.5" N, 088° 32' 45.1" W

Historical Depth: 9.14 m

Search Radius: 400

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

Technique Notes: [None]

History Notes:

L-1136/62--LETTER IS OF A LNM DATED 17 OCTOBER 1962 FROM THE 8TH CGD. "A MUD LUMP WITH A LEAST DEPTH OF 30FT OVER IT WAS REPORTED APPROXIMATELY 1665 YARDS 272° FROM HORN ISLAND PASS LIGHTED BELL BUOY 1 (LL6422)."■■H-11386 NRT4-04 OPR-J376■No significant conacts found w/ 200% SSS and SBES. (LD of 9.14m)■Retain as charted.

Survey Summary

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

No significant conacts found w/ 200% SSS and SBES. (LD of 9.14m)

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-J376-Pascagoula-AWOIS	AWOIS # 12613	0.00	000.0	Primary

Hydrographer Recommendations

Retain as charted.

S-57 Data

[None]

Office Notes

Do not Concur. No evidence of shoaling or of any contacts in this area. Remove charted 30FT Rep(1962).

1.10) AWOIS #12614 - OBSTRUCTION

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 11' 24.5" N, 088° 31' 51.5" W

Historical Depth: 8.84 m

Search Radius: 0

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

Technique Notes: [None]

History Notes:

LNM 33/89--"ADD SYMBOL SUBMERGED OBSTRUCTION AND LEGEND (29FT)." THE NOAA SHIP RUDE WAS THE SOURCE OF THIS LNM.■■H-11386 OPR-J376 NRT4-04■Obstns found around G'7" Fl G 2.5s■Retain as charted.

Survey Summary

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Obstns found around G'7" Fl G 2.5s

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-J376-Pascagoula-AWOIS	AWOIS # 12614	0.00	000.0	Primary

Hydrographer Recommendations

Retain as charted.

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes: VALSOU - 8.8392 m

WATLEV - 3:always under water/submerged

Office Notes

Concur. Retain as charted.

1.11) AWOIS #12615 - OBSTRUCTION

No Primary Survey Feature for this AWOIS Item

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

Historical Depth: [None]

Search Radius: 200

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

Technique Notes: [None]

History Notes:

LNM 29/90--"ADD SYMBOL SUBMERGED OBSTRUCTION (PA)" THIS ITEM IS LINKED WITH ITEM NUMBER 12616.■■H-11386 NRT4-04 OPR-J376■Area investigated with 200% SSS and SBES and no contacts found. Hydrographer recommends removing item from chart.

Survey Summary

Charts Affected: 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Area investigated with 200% SSS and SBES and no contacts found.

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-J376-Pascagoula-AWOIS	AWOIS # 12615	0.00	000.0	Primary

Hydrographer Recommendations

Remove item from chart.

S-57 Data

[None]

Office Notes

Concur. Remove Obstn PA.

1.12) AWOIS #12616 - OBSTRUCTION

No Primary Survey Feature for this AWOIS Item

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

Historical Depth: [None]

Search Radius: 200

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

Technique Notes: [None]

History Notes:

LNM 29/90--"ADD SYMBOL SUBMERGED OBSTRUCTION (PA)" THIS ITEM IS LINKED WITH ITEM NUMBER 12615.■■H-11386 NRT4-04 OPR-J376■Obstn PA investigated w/ 200% SSS and SBES. No contact was found.■Retain as charted.

Survey Summary

Charts Affected: 11375_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Obstn PA investigated w/ 200% SSS and SBES. No contact was found.

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-J376-Pascagoula-AWOIS	AWOIS # 12616	0.00	000.0	Primary

Hydrographer Recommendations

Retain as charted.

S-57 Data

[None]

Office Notes

Do not concur. Remove Obstn PA from chart.

1.13) AWOIS #2628 - WANDA FOUR

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 13' 06.7" N, 088° 33' 18.1" W

Historical Depth: [None]

Search Radius: 0

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

Technique Notes: [None]

History Notes:

LNM28/82--P/C WANDA FOUR REPORTED BURNED AND SANK APPROX. ONE HALF MILE ■FROM EASTERN END OF HORN ISLAND IN APPROX. POS. LAT. 30-13.1N, ■LONG. 88-33.3W. CHARTED AS DANGEROUS SUBM. WRECK, PA.■■H-11386 NRT-4-04 OPR-J376■Area not surveyed.

Survey Summary

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Area not surveyed

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-J376-Pascagoula-AWOIS	AWOIS # 2628	0.00	000.0	Primary

Hydrographer Recommendations

Retain as charted.

S-57 Data

Geo object 1: Wreck (WRECKS)

Attributes: CATWRK - 2:dangerous wreck

WATLEV - 3:always under water/submerged

Office Notes

Concur. Retain as Charted.

1.14) AWOIS #2870 - IRONSIDE

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 11' 30.7" N, 088° 30' 48.0" W

Historical Depth: [None]

Search Radius: 0

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

Technique Notes: [None]

History Notes:

LNM34/74--A 42 FT BOAT REPORTED SUNK OFF HORN ISLAND PASS CHANNEL. ■AT APPROX. POS.30-11-30N, 88-30-48W.■FE315SS/88--OPR-J433-RU/HE-88; ITEM NOT LOCATED. HOWEVER THE FOLLOWING ■OBSTRUCTIONS WITH ECHO SOUNDER DEPTHS WERE NOTED ON THE SONAR GRAMS DURING ■OFFICE PROCESSING: 21 FOOT OBSTR. IN LAT. 30-11-34.08N, LONG. 88-31-15.53W ■AWOIS NO.7129); 23 FOOT OBSTR. IN LAT. 30-11-34.17N, LONB. 88-31-17.63W ■(AWOIS NO.7131); 28 FOOT OBSTR. IN LAT. 30-11-20.57N, LONG. 88-31-18.10W ■ AWOIS NO.7130). SURVEY DID NOT INVESTIGATE AREA BETWEEN SHOAL AREA AND ■HORN ISLAND PASS CHANNEL. (UPDATE 4/12/89)■■H-11386 NRT4-04 OPR-j376■Area not surveyed.

Survey Summary

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Area not surveyed

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-J376-Pascagoula-AWOIS	AWOIS # 2870	0.00	000.0	Primary

Hydrographer Recommendations

Retain as charted.

S-57 Data

Geo object 1: Wreck (WRECKS)

Attributes: CATWRK - 2:dangerous wreck

WATLEV - 3:always under water/submerged

Office Notes

Concur. Retain as charted.

1.15) AWOIS #7944 - OBSTRUCTION

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 11' 50.2" N, 088° 31' 24.5" W

Historical Depth: [None]

Search Radius: 70

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

Technique Notes: [None]

History Notes:

FE324/89SS--OPR-J433-RU-88/89--UNCHARTED CONTACT NOTED TO BE ABANDONED BUOY SINKER WEIGHT FROM OFFICE ANALYSIS OF SONARGRAMS. NO EXACT POSITION COMPUTED OR HEIGHT GIVEN DUE TO POOR QUALITY OF SONAR IMAGE. OBSTR PLOTS PLUS OR MINUS 30 METERS IN LAT. 30-11-49.5N, LONG. 88-31-24.4W. NO FIELD INVESTIGATION. DANGER REPORTED TO 8TH CGD, AMC LETTER DATED 7/31/90.■■ LNM34/90--(8/21/90)--8TH CGD; ADD SYMBOL "SUBMERGED OBSTRUCTION (PA)" IN LAT 30-11-50.2N, LONG 88-31-24.5W. (ENT 5/8/91 GKM).■■H-11386 OPR-J376 NRT4-04■Area covered w/ 200% SSS and SBES/ No contact found.■Remove from chart.

Survey Summary

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Area covered w/ 200% SSS and SBES/ No contact found.

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-J376-Pascagoula-AWOIS	AWOIS # 7944	0.00	000.0	Primary

Hydrographer Recommendations

Remove from chart.

S-57 Data

[None]

Office Notes

Concur. Remove Charted Obstns PA.

1.16) AWOIS #7945 - OBSTRUCTION

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 11' 49.2" N, 088° 31' 27.3" W

Historical Depth: [None]

Search Radius: 70

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

Technique Notes: [None]

History Notes:

FE324/89SS--OPR-J433-RU-88/89--UNCHARTED CONTACT NOTED TO BE AN ABANDONED BUOY SINKER WEIGHT FROM OFFICE ANALYSIS OF SONARGRAMS. NO EXACT POSITION COMPUTED OR HEIGHT GIVEN DUE TO POOR QUALITY OF SONAR IMAGE. OBSTR PLOTS PLUS- OR MINUS- 30 METERS IN LAT 30-11-48.5N, LONG 88-31-27.2W. NO FIELD INVESTIGATION. DANGER REPORTED TO 8TH CGD; AMC LETTER, DATED 7/31/90.■ ■ LNM 34/90 (8/21/90)--8TH CGD; ADD SYMBOL "SUBMERGED OBSTRUCTION(PA)" IN LAT 30-11-49.2N, LONG 88-31-27.3W. (ENT 5/8/91 GKM)■■H-11386 OPR-J376 NRT4-04■Area surveyed w/ 200% SSS and SBES some debris next to G '9"■Remove from chart.

Survey Summary

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Area surveyed w/ 200% SSS and SBES. Some debris next to G '9" FL G 4s.

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-J376-Pascagoula-AWOIS	AWOIS # 7945	0.00	000.0	Primary

Hydrographer Recommendations

Remove from chart.

S-57 Data

[None]

Office Notes

Concur. Remove Obstns PA.

1.17) AWOIS #7946 - OBSTRUCTION

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 11' 50.9" N, 088° 31' 24.9" W

Historical Depth: [None]

Search Radius: 70

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

Technique Notes: [None]

History Notes:

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

Survey Summary

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Area surveyed w/ 200% and SBES . No contacts found.

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-J376-Pascagoula-AWOIS	AWOIS # 7946	0.00	000.0	Primary

Hydrographer Recommendations

Retain as charted.

S-57 Data

[None]

Office Notes

Do not concur. Remove Charted Obstns PA.

1.18) AWOIS #7947 - OBSTRUCTION

No Primary Survey Feature for this AWOIS Item

Search Position: 30° 09' 38.1" N, 088° 30' 46.3" W

Historical Depth: [None]

Search Radius: 40

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

Technique Notes: [None]

History Notes:

FE324/89SS--OPR-J433-RU-88/89--CONTACT NOTED ON SONARGRAM DURING EVAL. COMPUTED HEIGHT 2 TO 3 FT OFF BOTTOM IN 45 FT DEPTHS (LD 42 FT). GP: LAT 30-09-38.1N, LONG 88-30-46.3W. EVALUATOR RECOMMENDS CHARTING DANGEROUS SUBM OBSTR WITH ESTIMATED 42 FT DEPTH, REP 1989. (ENT 5/8/91).■■H-11386 NRT-4-04 OPR-J376■Area not surveyed. Retain as charted.

Survey Summary

Charts Affected: 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Area not surveyed.

Feature Correlation

Address	Feature	Range	Azimuth	Status
OPR-J376-Pascagoula-AWOIS	AWOIS # 7947	0.00	000.0	Primary

Hydrographer Recommendations

Retain as charted.

S-57 Data

[None]

Office Notes

Concur. Retain as charted.

H11386 - Uncharted Items

Registry Number: H11386

State: Mississippi

Locality: Mississippi Sound

Sub-locality: Vicinity of Horn Island Pass

Project Number: OPR-J376-NRT4-04

Survey Date: 06/22/2005

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11375	36th	01/01/2005	1:20,000 (11375_1)	USCG LNM: 05/13/2008 (05/20/2008) NGA NTM: 11/18/2006 (05/24/2008)
11374	32nd	10/01/2003	1:40,000 (11374_1)	[L]NTM: ?
11373	44th	01/01/2005	1:80,000 (11373_1)	[L]NTM: ?
11366	9th	03/01/2005	1:250,000 (11366_1)	[L]NTM: ?
11360	41st	03/01/2005	1:456,394 (11360_1)	[L]NTM: ?
1115A	41st	03/01/2005	1:456,394 (1115A_1)	[L]NTM: ?
11006	31st	09/01/2003	1:875,000 (11006_1)	[L]NTM: ?
411	49th	03/01/2003	1:2,160,000 (411_1)	[L]NTM: ?

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

Features

No.	Name	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	215/1 Wreck	Wreck	3.78 m	30° 15' 56.0" N	088° 30' 58.1" W	---
1.2	5426	Sounding	8.64 m	30° 13' 10.1" N	088° 30' 32.9" W	---
1.3	5482	Obstruction	8.90 m	30° 13' 00.3" N	088° 30' 19.6" W	---
1.4	204/1	Obstruction	4.02 m	30° 12' 59.9" N	088° 29' 53.4" W	---
1.5	170/1	Obstruction	12.37 m	30° 12' 24.7" N	088° 30' 43.8" W	---

1 - DR_UnCharted

1.1) 215/1 Wreck

Survey Summary

Survey Position: 30° 15' 56.0" N, 088° 30' 58.1" W

Least Depth: 3.78 m (= 12.40 ft = 2.067 fm = 2 fm 0.40 ft)

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

Timestamp: 2005-173.19:53:24.823 (06/22/2005)

Survey Line: h-11386 / 1211sb / 2005-173 / 155_1953

Profile/Beam: 215/1

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Submergered wreck. Least depth created from sb bathy. Contatacted investigated by sb echosounder and SSS 200% converage.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h-11386/1211sb/2005-173/155_1953	215/1	0.00	000.0	Primary
h11386/1211sb/2005-173/155_1953	215/1	0.00	000.0	Secondary
h-11386/1211sss500k/2005-152/p050601160800	0005	5.01	216.1	Secondary
h11386/1211sss500k/2005-152/p050601160800	0005	5.01	216.1	Secondary
h-11386/1211sss500k/2005-139/p050519201800	0001	9.46	338.7	Secondary
h11386/1211sss500k/2005-139/p050519201800	0001	9.46	338.7	Secondary
h-11386/1211sss500k/2005-139/p050519205100	0001	10.68	130.5	Secondary
h11386/1211sss500k/2005-139/p050519205100	0001	10.68	130.5	Secondary

Hydrographer Recommendations

Hydrographer recommends addeding wreck to chart at primary location.

Cartographically-Rounded Depth (Affected Charts):

12ft (11375_1, 11374_1, 11373_1)

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

2fm 0ft (11366_1)

S-57 Data

Geo object 1: Wreck (WRECKS)

Attributes:

CATWRK - 3:distributed remains of wreck

CONVIS - 2:not visual conspicuous

INFORM - Submergered wreck. Least depth created from sb bathy. Contatacted investigated by sb echosounder and SSS 200% converage.

OBJNAM - Submerged Wreck

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

VALSOU - 3.78 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

Office Notes

Concur. Chart Wk LD 12Ft.

1.2) 5426

Survey Summary

Survey Position: 30° 13' 10.1" N, 088° 30' 32.9" W

Least Depth: 8.64 m (= 28.35 ft = 4.724 fm = 4 fm 4.35 ft)

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

Timestamp: 2005-173.15:22:15.000 (06/22/2005)

DP Dataset: h-11386_pascagoula_sheet_c / 1211dp_echosounder / 2005-173 / 06222005

Profile/Beam: 3/1

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

DP on Contact. Investigated with 200% SSS and SB echosounder.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h-11386_pascagoula_sheet_c/1211dp_echosounder/2005-173/06222005	3/1	0.00	000.0	Primary
h11386/1211sss500k/2005-153/p050602175500	0007	4.92	231.1	Secondary
h11386/1211sss500k/2005-110/p050420172600	0004	6.23	271.0	Secondary

Hydrographer Recommendations

Hydrographer recommeds to chart obstruction.

Cartographically-Rounded Depth (Affected Charts):

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

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

4fm 4ft (11366_1)

S-57 Data

[None]

Office Notes

Do not concur. Item is not significant.

1.3) 5482

Survey Summary

Survey Position: 30° 13' 00.3" N, 088° 30' 19.6" W

Least Depth: 8.90 m (= 29.20 ft = 4.867 fm = 4 fm 5.20 ft)

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

Timestamp: 2005-173.16:05:33.000 (06/22/2005)

DP Dataset: h-11386_pascagoula_sheet_c / 1211dp_echosounder / 2005-173 / 06222005

Profile/Beam: 4/1

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

DP on contact. Obstruction investigated with 200% SSS and SB echosounder.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h-11386_pascagoula_sheet_c/1211dp_echosounder/2005-173/06222005	4/1	0.00	000.0	Primary
h-11386/1211sss500k/2005-159/p050608194400	0001	2.12	014.1	Secondary
h11386/1211sss500k/2005-159/p050608194400	0001	2.84	006.4	Secondary
h-11386/1211sss500k/2005-095/p050405200300	0001	4.57	065.6	Secondary
h11386/1211sss500k/2005-095/p050405200300	0001	4.77	056.2	Secondary
h11386/1211sss500k/2005-095/p050405200300	0002	45.93	118.0	Secondary
h-11386/1211sss500k/2005-095/p050405200300	0002	46.47	118.7	Secondary
h11386/1211sss500k/2005-095/p050405192100	0001	96.77	250.1	Secondary

Hydrographer Recommendations

Hydrographer recommends to chart obstruction.

Cartographically-Rounded Depth (Affected Charts):

29ft (11375_1, 11374_1, 11373_1)

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

4fm 5ft (11366_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes: INFORM - DP on contact. Obstruction investigated with 200% SSS and SB echosounder.

OBJNAM - Submerged obstruction

QUASOU - 1:depth known

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

VALSOU - 8.90 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

Office Notes

Concur. Chart 29FT Obstn.

1.4) 204/1

Survey Summary

Survey Position: 30° 12' 59.9" N, 088° 29' 53.4" W

Least Depth: 4.02 m (= 13.19 ft = 2.198 fm = 2 fm 1.19 ft)

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

Timestamp: 2005-173.16:51:18.907 (06/22/2005)

Survey Line: h-11386 / 1211sb / 2005-173 / 083_1650

Profile/Beam: 204/1

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Submerged obstr investigated with sb echosounder and 200% SSS

Feature Correlation

Address	Feature	Range	Azimuth	Status
h-11386/1211sb/2005-173/083_1650	204/1	0.00	000.0	Primary
h11386/1211sb/2005-173/083_1650	204/1	0.00	000.0	Secondary
h-11386/3001sss500k/2005-159/p050608200300	0002	1.76	200.1	Secondary
h11386/3001sss500k/2005-159/p050608200300	0002	1.76	200.1	Secondary
h-11386/3001sss500k/2005-159/p050608185100	0003	4.06	115.4	Secondary (grouped)
h11386/3001sss500k/2005-159/p050608185100	0003	4.06	115.4	Secondary

Hydrographer Recommendations

Hydrographer recommends to chart obstr.

Cartographically-Rounded Depth (Affected Charts):

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

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

2fm 1ft (11366_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes: INFORM - Submerged obstr investigated with sb echosounder and 200% SSS

OBJNAM - Submerged obstruction

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

VALSOU - 4.020 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

Office Notes

Concur. Chart Obstn LD 13FT

1.5) 170/1

Survey Summary

Survey Position: 30° 12' 24.7" N, 088° 30' 43.8" W

Least Depth: 12.37 m (= 40.59 ft = 6.766 fm = 6 fm 4.59 ft)

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

Timestamp: 2005-173.17:27:23.539 (06/22/2005)

Survey Line: h11386 / 1211sb / 2005-173 / 037_1727

Profile/Beam: 170/1

Charts Affected: 11375_1, 11374_1, 11373_1, 11366_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Obstruction investigated with 200% SSS and SB echosounder.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11386/1211sb/2005-173/037_1727	170/1	0.00	000.0	Primary
h-11386_pascagoula_sheet_c/1211dp_echosounder/2005-173/06222005	9/1	0.77	238.9	Secondary
h-11386/1211sss500k/2005-174/p050623153500	0003	2.45	144.5	Secondary
h11386/1211sss500k/2005-174/p050623153500	0003	2.45	144.5	Secondary
h11386/1211sss500k/2005-103/p050413161900	0011	3.76	179.8	Secondary
h11386/1211sss500k/2005-158/p050607162600	0014	4.46	122.3	Secondary
h11386/1211sss500k/2005-158/p050607172000	0006	5.73	197.1	Secondary

Hydrographer Recommendations

Hydrographer recommends to chart obstruction.

Cartographically-Rounded Depth (Affected Charts):

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

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

6fm 4ft (11366_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)

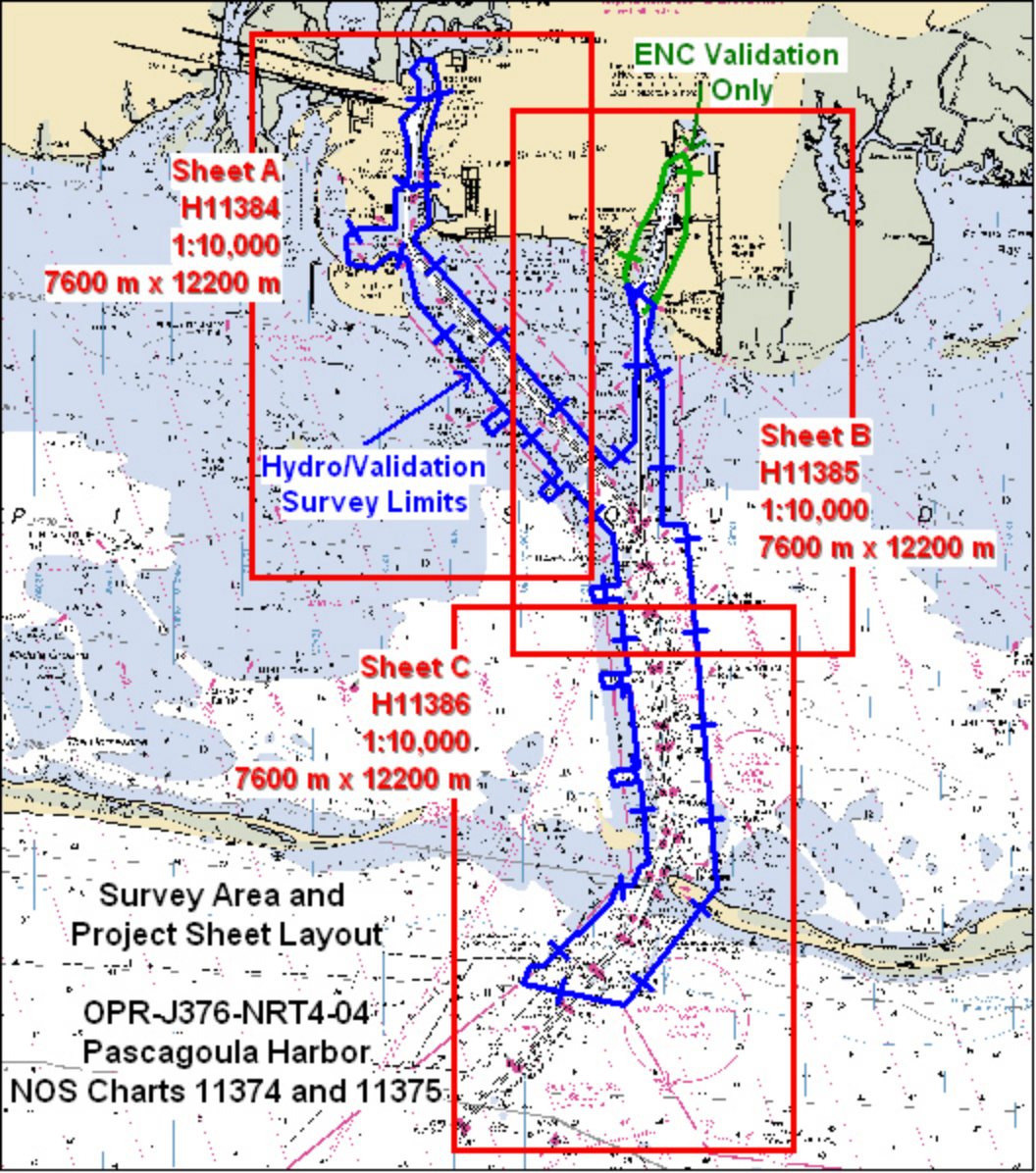
Attributes: VALSOU - 12.373 m

WATLEV - 3:always under water/submerged

Office Notes

Concur. Chart Obstn LD 40FT.

APPENDIX III
FINAL PROGRESS SKETCH AND SURVEY


ENC Validation Only
Sheet A
H11384
1:10,000
7600 m x 12200 m
Hydro/Validation Survey Limits
Sheet B
H11385
1:10,000
7600 m x 12200 m
Sheet C
H11386
1:10,000
7600 m x 12200 m
Survey Area and Project Sheet Layout
OPR-J376-NRT4-04
Pascagoula Harbor
NOS Charts 11374 and 11375

APPENDIX IV
TIDES AND WATER LEVELS

July 22, 2005

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

FROM: ,

SUBJECT: Request for Approved Tides/Water Levels

Please provide the following data:

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

Transmit data to:

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

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

Project No.:

Registry No.:

State:

Locality:

Sublocality:

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

cc: N/CS33

Year_DOY	Min Time	Max Time
2005_095	14:35:28	19:35:35
2005_103	14:15:28	16:10:05
2005_108	16:06:16	19:41:08
2005_109	16:18:57	17:52:41
2005_110	15:28:20	19:10:16
2005_116	15:00:44	16:15:22
2005_117	16:53:57	18:32:00
2005_139	17:08:37	20:18:29
2005_145	14:55:00	15:39:16
2005_146	14:50:42	19:55:21
2005_152	14:36:38	17:49:43
2005_153	15:54:03	19:36:09
2005_158	15:23:02	17:03:37
2005_159	14:11:44	19:52:30
2005_160	15:13:25	18:14:55
2005_172	14:40:08	15:43:20
2005_173	14:16:24	19:58:16
2005_174	14:29:42	16:53:36
2005_186	14:25:07	14:28:42

APPENDIX V
SUPPLEMENTAL SURVEY AND CORRESPONDENCE

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

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE : November 1, 2005

HYDROGRAPHIC BRANCH: Atlantic Hydrographic Branch
HYDROGRAPHIC PROJECT: OPR-J376-NRT1-2005
HYDROGRAPHIC SHEET: H11386

LOCALITY: Approaches to Pascagoula, Pascagoula MS
TIME PERIOD: April 5 - July 5, 2005

TIDE STATION USED: Dauphin Island, AL 873-5180
Lat. 30 15.0’ N Long. 088 04.5' W
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 0.361 meters

TIDE STATION USED: Horn Island, MS 874-2221
Lat. 30 14.3' N Long. 088 40.0' W
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 0.456 meters

TIDE STATION USED: Pascagoula Point, MS 874-1196
Lat. 30 20.4' N Long. 088 32.0' W
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 0.442 meters

REMARKS: RECOMMENDED ZONING

Use zone(s) identified as: CGM351, CGM351A & CM352

Refer to attachments for zoning information.

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

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

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

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CHIEF, PRODUCTS AND SERVICES DIVISION

ATLANTIC HYDROGRAPHIC BRANCH
EVALUATION REPORT to ACCOMPANY
SURVEY H11386 (2004)

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

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

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

B.2. QUALITY CONTROL

B.2.1. H-Cell

The AHB source depth grid for the survey's nautical chart update product was a 2m VBES swath angle grid from which the survey scale selected soundings were extracted. The selected sounding set is approximately 10 to 20 times the number of charted depths. The chart scale selected soundings are a subset of the survey scale selected soundings. The surface model was referenced when selecting the chart scale soundings, to ensure that the selected soundings portrayed the bathymetry within the common area.

This survey is partially superseded by survey H11512 (2005). In common areas the Meta coverage for H11386 was cropped to exclude areas covered by H11512. No chart scale soundings, features, or blue notes for the common area will be submitted for H11386, please see H11512 for soundings and features in this area.

The pre-compilation products or components (Stand Alone HOB files (SAHOB)) include sounding selections (SOUNDG), features (SBDARE), Meta objects (M_COVR, M_QUAL), and cartographic Blue Notes. The individual SAHOB files were inserted into one BASE Manager feature layer and exported to S57 format in order to create the H-Cell deliverable.

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

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

The H11386 CARIS H-Cell final deliverables include the following products:

US511386_CS.000	1:20,000 Scale	H11386 H-Cell with Chart Scale Selected Soundings
US511386_SS.000	1:10,000 Scale	H11386 Selected Soundings (Survey Scale)
US511386_BlueNotes.000	1:20,000 Scale	H11386 Cartographic Notes

D. RESULTS AND RECOMMENDATIONS

D.1 CHART COMPARISON

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

ENC Comparison **US5MS22M**
Pascagoula Harbor Mississippi
Edition 15
Application Date 2007-04-15
Issue Date 2008-06-19
Chart 11375

D.1.1 Hydrography

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

a. This survey included 18 AWOIS items. Three AWOIS items were outside of the surveyed area and were not investigated. Twelve of the items were disproved. For more information regarding AWIOS items see Appendix II and/or the H11386_BlueNotes.000 file.

D.3. MISCELLANEOUS

Chart compilation was done by Atlantic Hydrographic Branch personnel, in Norfolk, Virginia. Compilation data will be forwarded to Marine Chart Division, Silver Spring, Maryland. See Section D.1. of this report for a list of the Raster Charts and Electronic Navigation Charts (ENC) used for compiling the present survey:

D.4. ADEQUACY OF SURVEY

The present survey is adequate to supersede the charted bathymetry within the common area. Any features not specifically addressed either in the H-Cell BASE Cell File or the Blue Notes should be retained as charted. Refer to the Descriptive Report for further recommendations by the hydrographer.

APPROVAL SHEET
H11386

Initial Approvals:

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

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

Sarah M Eggleston
2008.09.02
11:59:40 -04'00'

Sarah M. Eggleston
Physical Scientist
Atlantic Hydrographic Branch

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

Approved: Shepard Smith
I am approving this document
2008.09.04 12:31:45 -04'00'

Shepard Smith
Lieutenant Commander, NOAA
Chief, Atlantic Hydrographic Branch

Christopher Hare
2008.09.18
10:23:22 -04'00'