

H11417

NOAA FORM 76-35A

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

DESCRIPTIVE REPORT

Type of Survey: **Hydrographic**

Registry Number: **H11417**

LOCALITY

State: Georgia

General Locality: Brunswick River

Sub-locality: E. River Lower Reach to St.
Simons Sound

2006

CHIEF OF PARTY

David B. Elliott - Team Leader

LIBRARY & ARCHIVES

DATE

NOAA FORM 77-28
(11-72)

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

REGISTRY NUMBER:

HYDROGRAPHIC TITLE SHEET

H11417

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: **Georgia**

General Locality: **Brunswick River**

Sub-Locality: **East River Lower Reach to St Simons Sound**

Scale: **1:10,000** Date of Survey: **4 Apr to 26 Sep., 2006**

Instructions Dated: **23 Feb 2005** Project Number: **OPR-G443-NRT2-05**

Vessel: **NOAA Launch 1210**

Chief of Party: **David B. Elliott - Team Leader**

Surveyed by: **David Elliott, Robert Ramsey & Frank Younger (NRT2)**

Soundings by: **ODOM ECHOTRAC CV**

Graphic record checked by: **DE, RR, FY**

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

Verification by: ***Atlantic Hydrographic Branch***

Soundings in: **Meters at MLLW**

Remarks: ***Bold, Italic, Red notes in the Descriptive Report were made during office processing.***
1) All Times are UTC.
2) This is a Standard Navigable Area Hydrographic Survey.
3) Projection is UTM Zone 17.

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**Data Filed with original field records*

DESCRIPTIVE REPORT**to accompany**

OPR-G443

HYDROGRAPHIC SURVEY**H-11417****Scale of Survey: 1:10,000****Year of Survey: 2006****Navigation Response Team 2 - Launch 1210****David B. Elliott- Team Leader****A. AREA SURVEYED**

This hydrographic survey was conducted in accordance with Port Letter Instructions for project OPR-G443-NRT-05, Brunswick Georgia. The instructions are dated Feb. 23, 2005..

The purpose of this project is to collect new hydrography in the vicinity of the Port of Brunswick, GA. Results from the contemporary hydrography and investigations will also serve as a chart evaluation for NOS Electronic Nautical Charts (ENC). The hydrographic data from this project will help ensure navigational safety through updated critical nautical charts and provide new information for emergency response organizations to use in the event of a marine casualty or coastal storm.

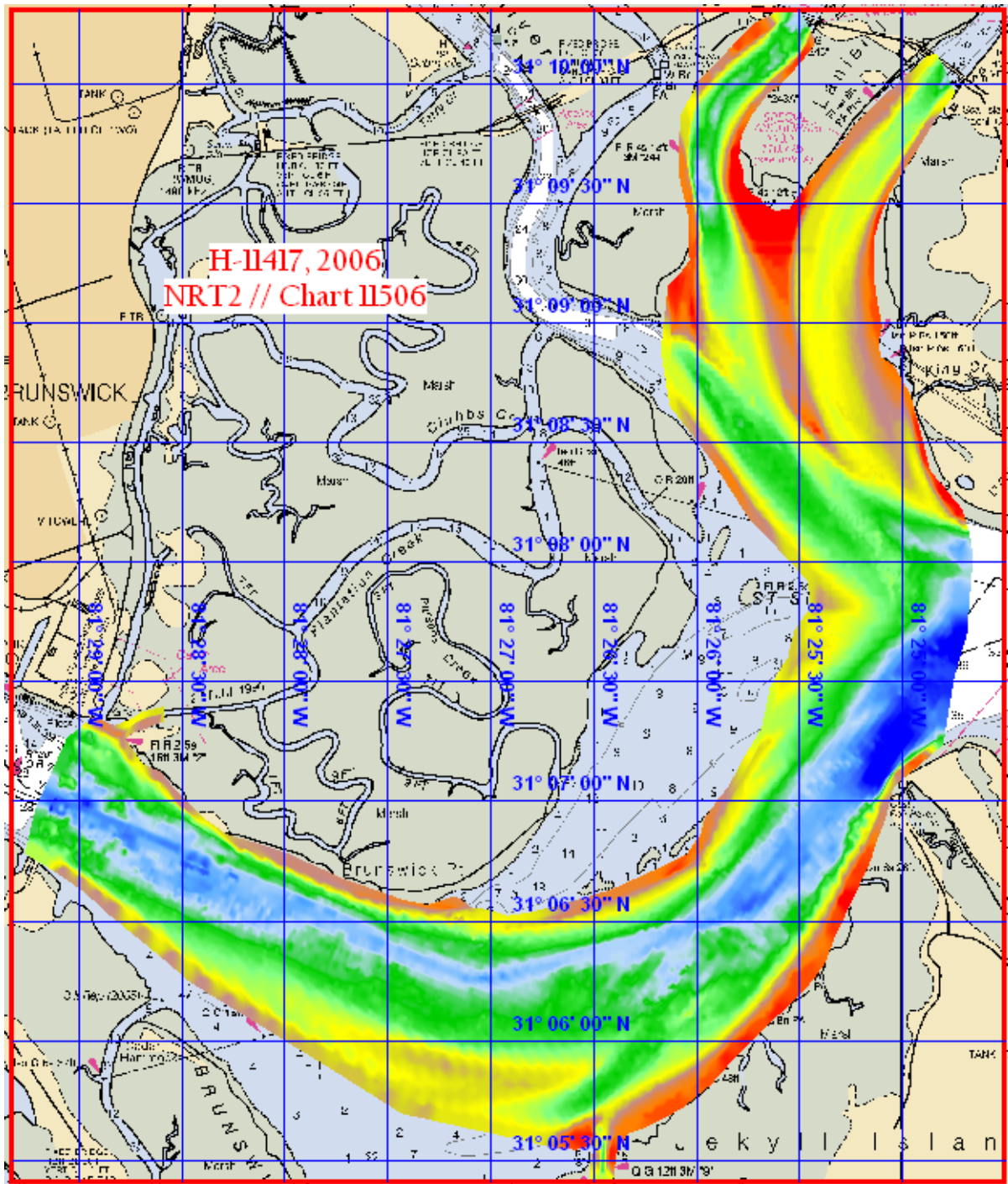
Survey Limits for Sheet "B" - H-11417 are as follows:

31° 10' 52" N
081° 29' 18" W
31° 00' 29" N
081° 12' 09" W

Note: These boundaries above include the additional offshore hydrography.

Survey Dates: April 4, 2006 (DN: 094) to Sep 26, 2006 (DN: 269)

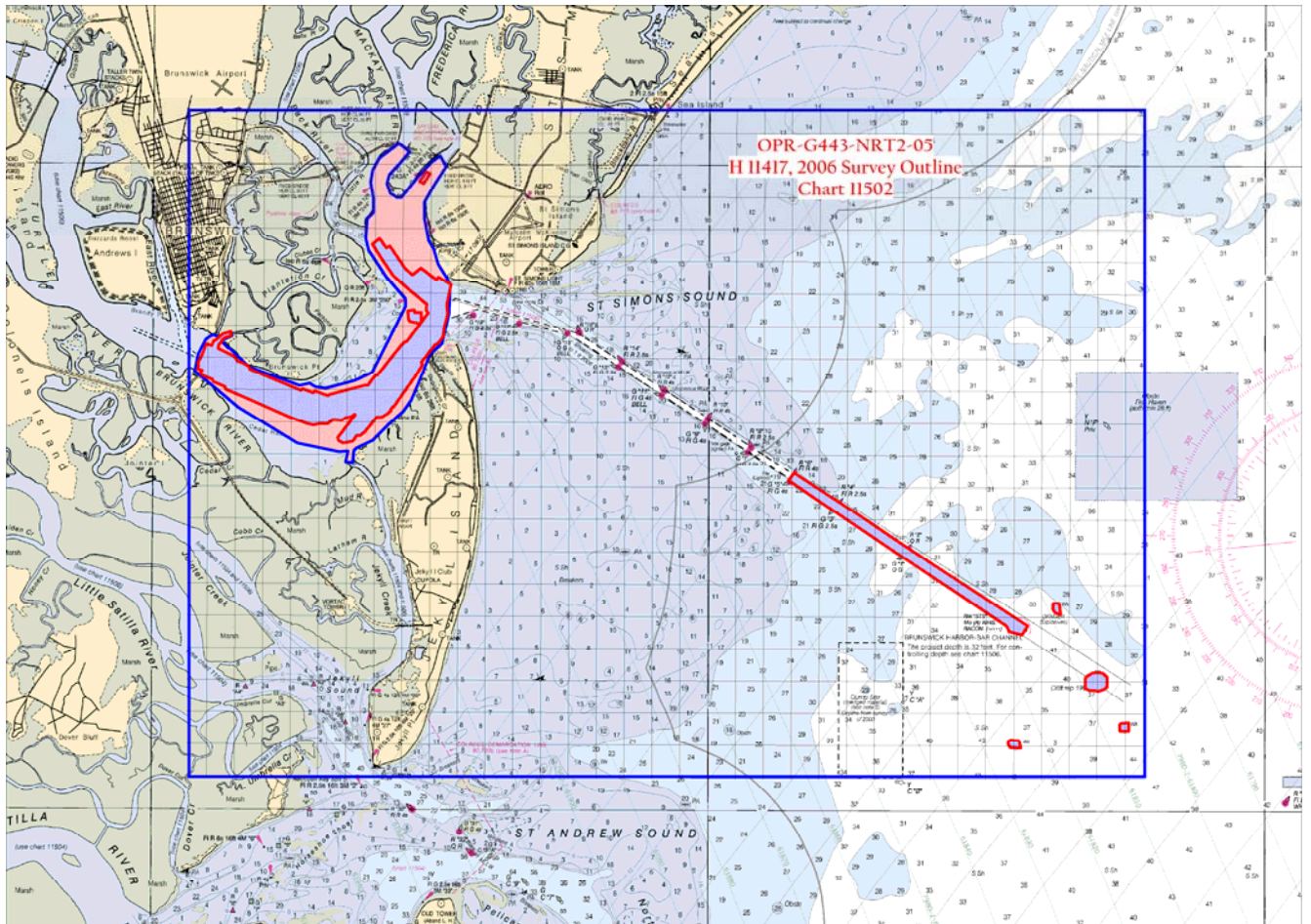
Survey limits are displayed graphically in the chartlet on the following page .



Total LNM SB & SSS = 225

Total SQ NM = 7.2

Additional work was added for some offshore work that was attached to this survey, identified throughout as “Offshore AWOIS”. This additional hydrography was requested by the Brunswick Pilots Assoc. for contemporary Side scan coverage to the Sea Buoy and likewise covered AWOIS items that were not assigned inside the confines of the original three sheets of OPR-G443. Survey limits are graphically displayed below:



B. DATA ACQUISITION AND PROCESSING

B.1. EQUIPMENT

Data were acquired by Navigation Response Team 2 and survey Launch 1210. The vessel was configured as described in the Data Acquisition and Processing Report (DAPR) for this project. Major data acquisition systems are summarized below.

NOAA launch 1210, a 30-foot SeaArk with a draft of 0.5 meters, was used to collect all survey data. There were no unusual vessel configurations or problems encountered with the vessel.

An ODOM EchotracerCV, Fathometer, was used to collect all echo soundings on this survey

A Klein 3000 side scan sonar, was used throughout this survey. The side scan sonar equipment was used to investigate AWOIS items.

A Trimble DGPS Beacon Receiver was used as the primary navigation station on launch 1210.

A Trimble Pathfinder ProXRS was used for all ENC high accuracy positioning and establishment of calibration points.

The following instruments were used for determining corrections for the speed of sound through the water column, an Odom Digi-Bar Pro, & Seabird-Seacat Model 19-03 Velocity Profiler.

B.2. QUALITY CONTROL

Following the Field Procedures Manual and the NOS Hydrographic Surveys Specifications and Deliverables Manual, June 14, 2006 has insured the integrity of the survey data for H-11417.

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 weekly.

Echo Sounder Control

Lead line comparisons were conducted daily and compared to the digital depth and draft.

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 100/500kHz.

A 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 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. Distorted images caused by strong tidal currents, or sea state, were seen periodically. Significant contacts and shadows were processed with 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.

The system frequencies used were 100kHz and 500kHz. The recorder was set on one of either 50/75/100-meter range scales. There were no water depths greater than 35 meters.

When operating in shoaler 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 Odom CV echosounder traces were noted due to cross-talk between the two systems.

Junctions

Survey H11417 junctions with contemporary surveys H11416 (2006) to the west and H11418 (2006) to the east. This survey also junctions with the following prior surveys:

H05590 – 1934 – North (1:10,000)

H05579 – 1937 – South (1:10,000)

B.3. CORRECTIONS TO ECHO SOUNDING

A table detailing all sound velocity casts is contained in Separates II - Sound Speed Data. Sound velocity data has been submitted with the digital data package, as per FPM 2.1, section 5.1.2.2. The cast data table is organized on the digital media as follows: vessel / day of cast / cast data.

There are no deviations to be discussed in this section.

C. VERTICAL AND HORIZONTAL CONTROL

Vertical Control

The instrument used for determining corrections for the speed of sound through the water column was a Seabird-Seacat Velocity Profiler. The following instruments were used for determining corrections for the speed of sound through the water column, an Odom Digi-Bar Pro, & Seabird-Seacat Model 19-03 Velocity Profiler. 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 Carris HIPS.

Field soundings are corrected by unverified actual heights from NOAA/CO-OPS.

The Real Time Actual 6 min Tides are downloaded from: "http://co-ops.nos.noaa.gov/data_res.html", for all gauges required in the given projects defined by the ZDF file provided in the project letter, and instruction. Tide values are downloaded in blocks of data that covers the Times of Hydrography, and saved in a text file format. The MapInfo program is then used with the "HYDRO_MI" pre-Survey function, of "Create Cowlis", this function converts the text file into a Caris tide file (.tid).

All elevations and soundings on survey H-11417 are based on MLLW unless otherwise specified.

A Request for Approved Tides letter was sent to N/OPS1 on Oct 25, 2006 (Appendix IV).

Note: A separate Tide letter was requested for some offshore work that was attached to this survey, identified throughout as "Offshore AWOIS".

A Request for Approved Tides letter was sent to N/OPS1 on Oct 25, 2006 (Appendix IV).

Horizontal Control

The horizontal datum used for this survey is the North American Datum of 1983 (NAD 83), projected using UTM zone 17. The control reference station used for this survey was the USCG DGPS Beacon.

Horizontal dilution of precision (HDOP) was monitored on Hypack daily on all survey platforms. Any HDOP values exceeding 2.5 were addressed; 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.

D. RESULTS AND RECOMMENDATIONS

D.1 Chart Comparison

There are two charts affected by this survey:

<u>Chart Number</u>	<u>Edition</u>	<u>Edition Date</u>	<u>Scale</u>
11502	30 th	Feb. 01, 2005	1:80,000
11506	42 nd	Dec. 01, 2005	1:40,000

<u>ENC Cell</u>	<u>Last Updated</u>	<u>Corresponding Chart</u>	<u>Version</u>
US4GA11M	Jan 31, 2005	11502	3
US5GA13M	Mar 11, 2006	11506	4

General Agreement with Charted soundings

In general survey soundings compared with the charted soundings within two to three feet. The smooth tides may resolve some of these soundings. All charted soundings should be superseded by this survey.

The following is a list of comparisons between the survey data and charted shoals or potentially hazardous features as well as notable sounding discrepancies on the chart:

- 1.) The dangerous rock symbol at 31° 06' 30.5"N, 081° 27' 08.5"W, exists as charted with a least depth of 3 ft at MLLW.
- 2.) The rock charted at 31° 06' 28.2"N, 081° 25' 52.4" W, exists as charted.

The following is a list of comparisons with controlling depths, tabulated depths and reported depths of maintained channels:

There are ongoing dredging operations being conducted within the confines of H11416. The USACOE will be submitting new chart tabulations for the channels upon completion. Reference to this work can be found in the letter/e-mail in Supplemental Correspondence regarding dredging operations.

AWOIS Item Investigations

There were two AWOIS items within the survey limits. These items were investigated with Side Scan Sonar. The detailed documentation for these features can be found in the PSS in Pydro and the AWOIS database record.

<u>Record #</u>	<u>Method</u>	<u>Recommendation</u>
3042	SSS	Exist as charted/ Retain
12972	Visual	Exist as charted/ Retain

There were five Offshore AWOIS items added to this survey. These items were investigated with Side Scan Sonar. The detailed documentation for these features can be found in the PSS in Pydro and the AWOIS database record.

<u>Record #</u>	<u>Method</u>	<u>Recommendation</u>
481	SSS	Exist as charted/ Retain
482	SSS	Exist as charted/ Retain
9885	SSS	Exist as charted/ Retain
9890	SSS	Does Not Exist/Remove from Chart
		*Anti DTON submitted in Advance to MCD for removal
12980	SSS	does not Exist/ Remove from Chart
		*Anti DTON submitted in Advance to MCD for removal

The following is a list of charted features that were investigated on H-11417 that contain the label PA, ED, PD or Rep that were not assigned as AWOIS:

None

Dangers to Navigation

There were Seven DTONS within the confines of H-11417, and One DTON offshore and Two Anti DTONS that were submitted in Advance to MCD for removal, the reference for these features can be found in the Appendices section I. The geographic locations for these DTONS are all new positions to the chart. These items were submitted in advance to MCD.

D. 2. ADDITIONAL RESULTS

Aids to Navigation and Other Detached Positions

All Navigation Aids serve their intended purpose. Charted positions should be superseded by new survey positions.

Ferry Routes

There are no Ferry routes within the confines of H-11417.

Submarine Cables and Pipelines

There is one submerged cable crossing, one submerged pipeline crossing and one overhead cable crossing charted within the confines of H-11417.

Bridges

There are three bridges within the confines of H-11417. The two bridges on the Toras Causeway on Lanier Island need to be adjusted with contemporary imagery, the horizontal and vertical clearances were verified by NRT2 and are adequate.

E. APPROVAL SHEET

**OPR-G443-NRB
Brunswick River
Brunswick, GA
Survey Registry No. H-11417**

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 by:

**David B. Elliott - Team Leader
Navigation Response Team 2**

APPENDIX I

DTON

There are 10 DTONs or Anti-DTONs for Survey H11417.

H11417 DtoNs Report

Registry Number: H11417
State: Georgia
Locality: Brunswick River
Sub-locality: East River Lower Reach to St. Simons Sound
Project Number: OPR-G443-NRT2-95
Survey Dates: 04/05/2006 - 06/21/2006

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11506	43rd	02/01/2007	1:40,000 (11506_1)	USCG LNM: 04/01/2008 (04/08/2008) NGA NTM: 09/26/1998 (04/12/2008)
11507	32nd	12/01/2004	1:40,000 (11507_7)	[L]NTM: ?
11489	36th	06/01/2005	1:40,000 (11489_1)	[L]NTM: ?
11502	31st	01/01/2007	1:80,000 (11502_1)	USCG LNM: 04/01/2008 (06/03/2008) NGA NTM: 11/03/2001 (06/07/2008)
11480	39th	09/01/2005	1:449,659 (11480_1)	[L]NTM: ?
11009	37th	07/01/2004	1:1,200,000 (11009_1)	[L]NTM: ?
411	50th	09/01/2005	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	479/1 LD=1ft @ mllw, ICW channel SHOALING encroachment	Shoal	0.33 m	31° 08' 33.0" N	081° 25' 25.3" W	---
1.2	204/1 LD=15ft subm obstr	Obstruction	4.56 m	31° 07' 10.2" N	081° 29' 02.1" W	---
1.3	231/1 LD=12ft @ mllw on Rock	Rock	3.57 m	31° 06' 25.5" N	081° 27' 05.0" W	---
1.4	222/1 LD=9ft @ mllw Rock	Rock	2.75 m	31° 06' 25.7" N	081° 27' 01.0" W	---
1.5	606/1 LD=10ft @ mllw	Obstruction	3.07 m	31° 07' 41.4" N	081° 25' 20.5" W	---
1.6	453/1 LD=23ft @mllw, subm obstr	Obstruction	7.11 m	31° 06' 35.1" N	081° 25' 33.2" W	---
1.7	410/1 - superseded by USACE dredging	Sounding	8.75 m	31° 06' 35.9" N	081° 27' 59.0" W	---
1.8	3207/1- superseded by USACE dredging	Shoal	2.87 m	31° 05' 41.2" N	081° 26' 25.2" W	---

1 - DtoNs - Inshore

1.1) 479/1 LD=1ft @ mllw, ICW channel SHOALING encroachment

DANGER TO NAVIGATION

Survey Summary

Survey Position: 31° 08' 33.0" N, 081° 25' 25.3" W
Least Depth: 0.33 m (= 1.07 ft = 0.179 fm = 0 fm 1.07 ft)
TPU (±1.96σ): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-095.15:14:54.939 (04/05/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-095 / 336_1b
Profile/Beam: 479/1
Charts Affected: 11489_1, 11506_1, 11507_7, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

50m reduced line spacing SB work was conducted throughout this area. The shoaling in this report extends between 31°08'30.629" , -081°25'22.561", to the NW at 31°08'38.724" , -081°25'31.369"; 234.1m 317.4° axis.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-095/336_1b	479/1	0.00	000.0	Primary

Hydrographer Recommendations

Chart 1ft at 31°08'32.958"N , 081°25'25.283"W (459612.11E , 3445470.61N).Chart 3 foot shoal limits, and propagate with survey soundings.

Cartographically-Rounded Depth (Affected Charts):

1ft (11489_1, 11506_1, 11507_7, 11502_1)

0fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: EXPSOU - 2:shoaler than range of depth of the surrounding depth area
 INFORM - ICW channel encroachment, shoaling from the east.
 OBJNAM - Shoaling
 QUASOU - 1:depth known

STATUS - 17:un-watched

TECSOU - 1:found by echo-sounder

VERDAT - 12:Mean lower low water

Office Notes

Concur. Chart a 1 ft. sounding in Latitude 31-08-32.96N, Longitude 81-25-25.28W.

1.2) 204/1 LD=15ft subm obstr**DANGER TO NAVIGATION****Survey Summary**

Survey Position: 31° 07' 10.2" N, 081° 29' 02.1" W
Least Depth: 4.56 m (= 14.95 ft = 2.492 fm = 2 fm 2.95 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-158.14:17:39.230 (06/07/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-158 / 003_1417
Profile/Beam: 204/1
Charts Affected: 11489_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

LD over sss contact developement.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-158/003_1417	204/1	0.00	000.0	Primary
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420130700	0001	3.41	031.4	Secondary

Hydrographer Recommendations

Chart subm obstr. LD=15 ft @ mllw at position 31°07'10.237" , -081°29'02.072". Item is old concrete bridge support piling.

Cartographically-Rounded Depth (Affected Charts):

15ft (11489_1, 11506_1, 11502_1)

2 ½fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: CONDTN - 2:ruined
 INFORM - Old concrete bridge support
 NATCON - 2:concreted

OBJNAM - subm obstr

QUASOU - 6:least depth known

STATUS - 1:permanent

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

VALSOU - 4.557 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

Office Notes

Concur. Chart a dang. Obstrn with a depth of 15 ft. in Latitude 31-07-10.24N, Longitude 81-29-02.07W.

1.3) 231/1 LD=12ft @ mllw on Rock

DANGER TO NAVIGATION

Survey Summary

Survey Position: 31° 06' 25.5" N, 081° 27' 05.0" W
Least Depth: 3.57 m (= 11.73 ft = 1.954 fm = 1 fm 5.73 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-158.15:24:54.432 (06/07/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-158 / 001_1524
Profile/Beam: 231/1
Charts Affected: 11489_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

LD sounding over sss contact developement. Very large rock pinnacle.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-158/001_1524	231/1	0.00	000.0	Primary
h11417/nrt2_1210_klein3000hf_200sss/2006-151/sss060531180000	0002	9.77	103.2	Secondary

Hydrographer Recommendations

Chart a rock symbol at the surveyed position of 31°06'25.458" , -081°27'05.012".

Cartographically-Rounded Depth (Affected Charts):

11ft (11489_1, 11506_1, 11502_1)

2fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: EXPSOU - 2:shoaler than range of depth of the surrounding depth area
 INFORM - Large rock pinnacle
 OBJNAM - Rock pinnacle
 QUASOU - 1:depth known

STATUS - 1:permanent

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

VERDAT - 12:Mean lower low water

Geo object 2: Underwater rock / awash rock (UWTROC)

Attributes: INFORM - LD on rock developement

OBJNAM - Large Rock

QUASOU - 6:least depth known

STATUS - 1:permanent

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

VALSOU - 3.574 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

Office Notes

Concur. Chart a dang. Rk with a depth of 11 ft. in Latitude 31-06-25.46N, Longitude 81-27-05.01W.

1.4) 222/1 LD=9ft @ mllw Rock**DANGER TO NAVIGATION****Survey Summary**

Survey Position: 31° 06' 25.7" N, 081° 27' 01.0" W
Least Depth: 2.75 m (= 9.03 ft = 1.505 fm = 1 fm 3.03 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-158.15:34:52.873 (06/07/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-158 / 005_1534
Profile/Beam: 222/1
Charts Affected: 11489_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

LD sounding over sss contact developement. Very large rock pinnacle.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-158/005_1534	222/1	0.00	000.0	Primary
h11417/nrt2_1210_klein3000hf_200sss/2006-151/sss060531180000	0001	2.95	024.5	Secondary

Hydrographer Recommendations

Chart rock pinnacle at 31°06'25.708" , -081°27'01.030".

Cartographically-Rounded Depth (Affected Charts):

9ft (11489_1, 11506_1, 11502_1)

1 ½fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: EXPSOU - 2:shoaler than range of depth of the surrounding depth area
 INFORM - Large rock rise
 OBJNAM - Rock pinnacle
 QUASOU - 1:depth known

STATUS - 1:permanent

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

VERDAT - 12:Mean lower low water

Geo object 2: Underwater rock / awash rock (UWTROC)

Attributes: INFORM - LD=9ft @ mllw Rock

OBJNAM - Rock

QUASOU - 6:least depth known

STATUS - 1:permanent

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

VALSOU - 2.752 m

VERDAT - 12:Mean lower low water

Office Notes

Concur. Chart a dang. Rk with a depth of 9 ft. in Latitude 31-06-25.71N, Longitude 81-27-01.03W.

1.5) 606/1 LD=10ft @ mllw**DANGER TO NAVIGATION****Survey Summary**

Survey Position: 31° 07' 41.4" N, 081° 25' 20.5" W
Least Depth: 3.07 m (= 10.09 ft = 1.681 fm = 1 fm 4.09 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-157.14:17:15.074 (06/06/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-157 / 005_1416
Profile/Beam: 606/1
Charts Affected: 11489_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

LD Sounding on submerged mooring buoy, from development of sss contact. Associated ground tackle in immediate proximity, and connected to subm mooring buoy.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-157/005_1416	606/1	0.00	000.0	Primary
h11417/nrt2_1210_klein3000hf_200sss/2006-157/sss060606140800	0001	1.55	187.6	Secondary
h11417/nrt2_1210_klein3000hf_200sss/2006-157/sss060606140100	0001	1.85	102.6	Secondary
h11417/nrt2_1210_klein3000hf_200sss/2006-157/sss060606141500	0001	2.16	155.3	Secondary
h11417/nrt2_1210_klein3000hf_100sss/2006-157/sss060606134900	0001	2.91	242.4	Secondary
h11417/nrt2_1210_klein3000hf_200sss/2006-157/sss060606140300	0001	11.42	348.9	Secondary
h11417/nrt2_1210_klein3000hf_200sss/2006-157/sss060606140100	0002	11.42	343.9	Secondary

Hydrographer Recommendations

Chart subm obstr at 31°06'25.708" , -081°27'01.030". Remove the currently charted mooring buoy at 31.12711153N , 081.42117099W (459845.73E , 3443765.52N)

Cartographically-Rounded Depth (Affected Charts):

10ft (11489_1, 11506_1, 11502_1)

1 ½fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: CATOBS - 9:ground tackle
INFORM - subm mooring buoy and ground tackle
NATCON - 4:hard surfaced
OBJNAM - subm obstr
QUASOU - 6:least depth known
STATUS - 1:permanent
TECSOU - 1,2:found by echo-sounder,found by side scan sonar
VALSOU - 3.074 m
VERDAT - 12:Mean lower low water
WATLEV - 3:always under water/submerged

Office Notes

Concur. Chart a dang. Obstrn with a depth of 10 ft. (3.069m) in Latitude 31-07-41.37N, Longitude 81-25-20.45W.

Feature Images



Figure 1.5.1

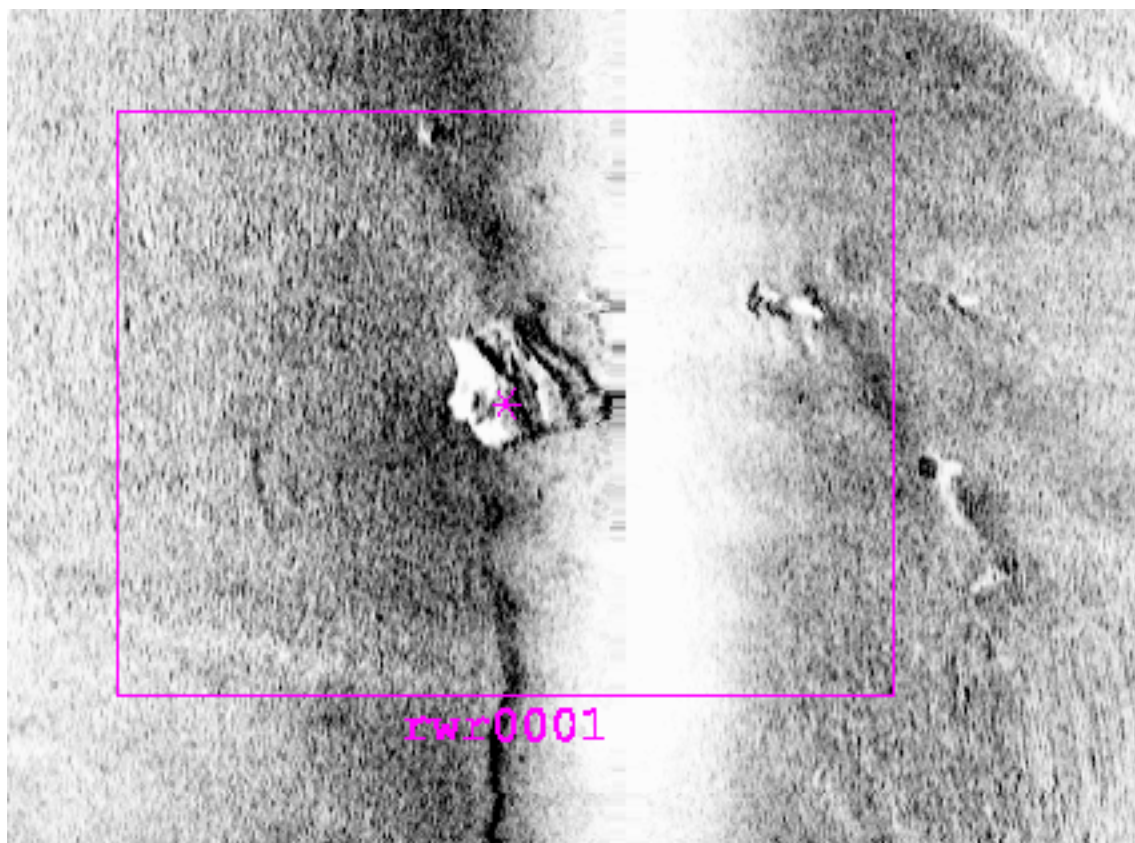


Figure 1.5.2

1.6) 453/1 LD=23ft @mllw, subm obstr**DANGER TO NAVIGATION****Survey Summary**

Survey Position: 31° 06' 35.1" N, 081° 25' 33.2" W
Least Depth: 7.11 m (= 23.34 ft = 3.890 fm = 3 fm 5.34 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-166.15:07:42.390 (06/15/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-166 / 004_1507
Profile/Beam: 453/1
Charts Affected: 11489_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

Subm obstr old FNT RNG Plat.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-166/004_1507	453/1	0.00	000.0	Primary
h11417/nrt2_1210_klein3000hf_200sss/2006-145/sss060525145300	0001	3.27	023.2	Secondary
h11417/nrt2_1210_klein3000hf_100sss/2006-109/sss060419145300	0001	4.94	235.3	Secondary

Hydrographer Recommendations

Chart subm obstr LD=23ft @mllw, at 31°06'35.147" , -081°25'33.230".

Cartographically-Rounded Depth (Affected Charts):

23ft (11489_1, 11506_1, 11502_1)

3 ¾fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: CATOBS - 1:snag / stump
 INFORM - old rng plat ruins
 NATCON - 6:wooden

OBJNAM - subm obstr

QUASOU - 6:least depth known

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

VALSOU - 7.114 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

Office Notes

Concur. Chart a dang. Obstrn with a depth of 23 ft. (7.108m) in Latitude 31-06-35.11N, Longitude 81-25-33.24W.

Feature Images

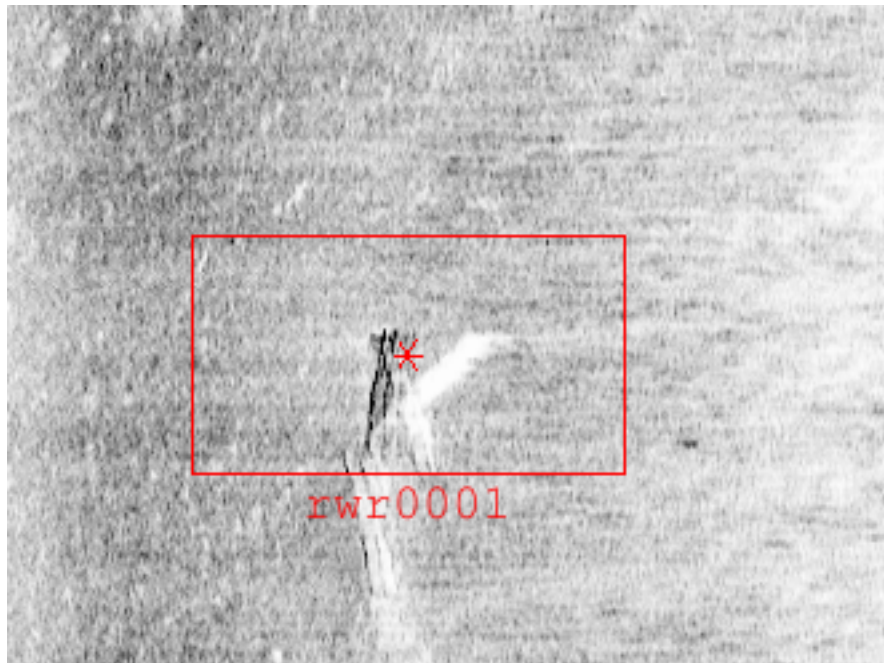


Figure 1.6.1

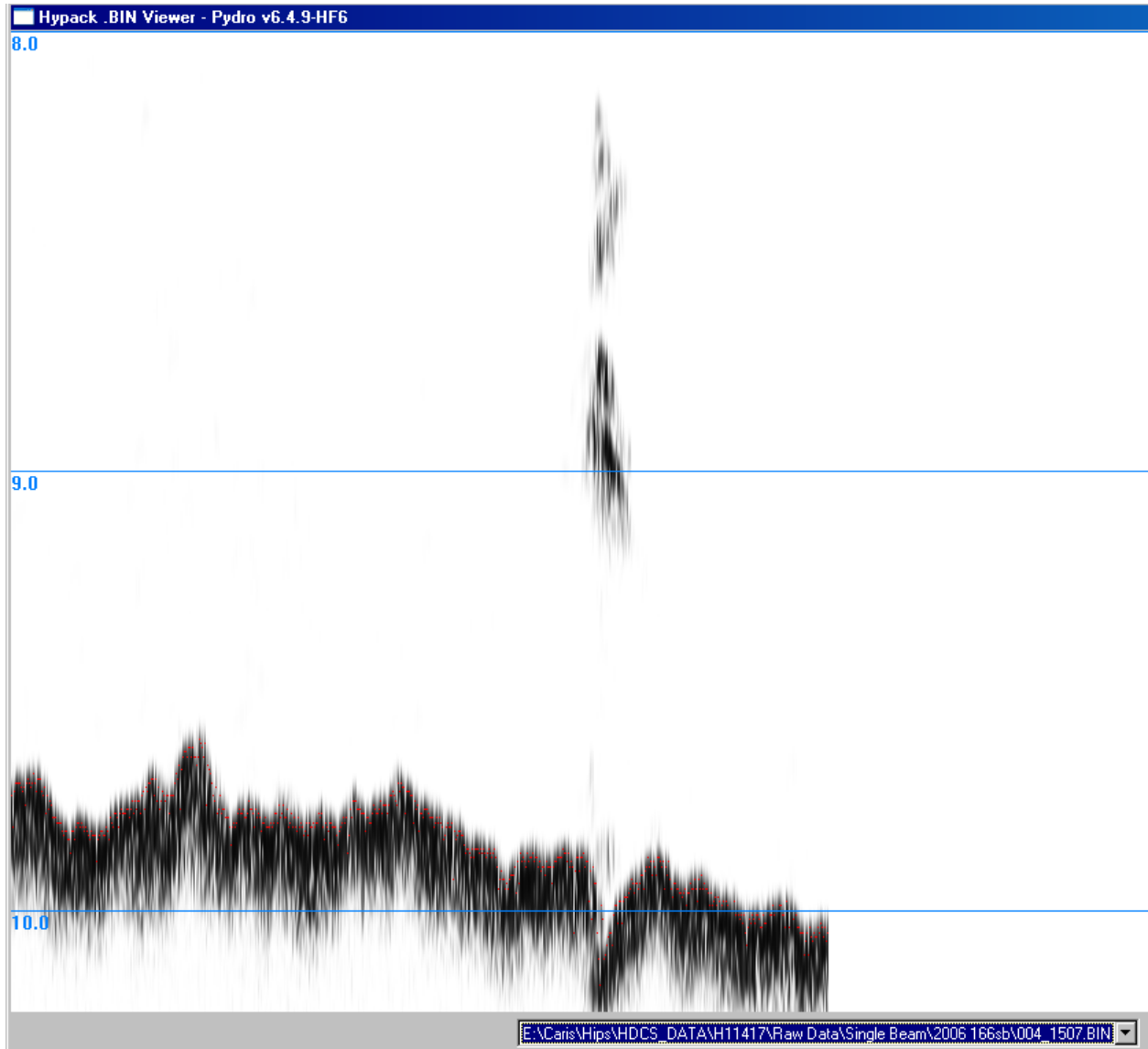


Figure 1.6.2

1.7) 410/1 - superseded by USACE dredging

DANGER TO NAVIGATION

Survey Summary

Survey Position: 31° 06' 35.9" N, 081° 27' 59.0" W
Least Depth: 8.75 m (= 28.72 ft = 4.786 fm = 4 fm 4.72 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-172.15:03:35.709 (06/21/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-172 / 039_1503
Profile/Beam: 410/1
Charts Affected: 11489_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

200% sss ops identified a rock in the channel. Subsequently VBES development was conducted, obtaining a Least depth. USACOE was notified, and plan to have this dredged or removed, however dredging operation have been stopped, and it is not known when they will resume. The Pilots, and Georgia State Port Authority have been made aware of this feature.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-172/039_1503	410/1	0.00	000.0	Primary
h11417/nrt2_1210_klein3000hf_200sss/2006-151/sss060531163800	0002	3.93	136.1	Secondary
h11417/nrt2_1210_klein3000hf_100sss/2006-109/sss060419184600	0006	4.18	101.4	Secondary

Hydrographer Recommendations

Chart a subm obstr LD=28ft @ mllw at 31°06'35.931", -081°27'58.979". Remove this charted obstr, when notified by USACOE that it has been removed.

Cartographically-Rounded Depth (Affected Charts):

28ft (11489_1, 11506_1, 11502_1)

4 ¾fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)

Attributes: EXPSOU - 2:shoaler than range of depth of the surrounding depth area
 INFORM - 410/1 LD=28ft @ mllw
 QUASOU - 1:depth known
 TECSOU - 1,2:found by echo-sounder,found by side scan sonar
 VERDAT - 12:Mean lower low water

Office Notes

Subsequent US Army Corps of Engineers survey supersedes present survey. Do not chart feature.

1.8) 3207/1- shoaling at the entrance to the Intracoastal Waterway

DANGER TO NAVIGATION

Survey Summary

Survey Position: 31° 05' 41.2" N, 081° 26' 25.2" W
Least Depth: 2.87 m (= 9.40 ft = 1.567 fm = 1 fm 3.40 ft)
TPU (±1.96σ): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-152.15:13:33.231 (06/01/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-152 / 435_1
Profile/Beam: 3207/1
Charts Affected: 11489_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

Shoal soundings of 9 and 10 ft. present in Intracoastal Waterway Channel, charted controlling depths are 12 ft.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-152/435_1	3207/1	0.00	000.0	Primary
h11417/nrt2_1210_sb/2006-152/435_1	3144/1	17.34	150.2	Secondary (grouped)

Hydrographer Recommendations

Office review of survey H11417 shows the entrance to Jekyll Cr. Intracoastal Waterway to be between 9 and 10 feet. Controlling depths for this Intracoastal Waterway from Savannah River, GA to Fernandina Beach, FL as 12 feet. Update the controlling depths for this section of the Intracoastal Waterway and forward this shoaling to the US Army Corps of Engineers for dredging.

Cartographically-Rounded Depth (Affected Charts):

9ft (11489_1, 11506_1, 11502_1)
 1 ½fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: EXPSOU - 2:shoaler than range of depth of the surrounding depth area
 STATUS - 1:permanent

TECSOU - 1:found by echo-sounder

VERDAT - 12:Mean lower low water

Office Notes

Chart a shoal depth of 9 ft. in Latitude 31-05-41.23N, Longitude 81-26-25.25W. (See also Suvey Correspondence)

H11417 DtoNs Report - Offshore

Registry Number: Offshore Awois
State: Georiga
Locality: Atlantic Ocean
Sub-locality: Brunswick Approach
Project Number: OPR-G443-NRT2-05
Survey Dates: 07/25/2006 - 07/26/2006

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11506	43rd	02/01/2007	1:40,000 (11506_1)	USCG LNM: 04/01/2008 (04/08/2008) NGA NTM: 09/26/1998 (04/12/2008)
11504	16th	06/01/2005	1:40,000 (11504_1)	[L]NTM: ?
11502	31st	01/01/2007	1:80,000 (11502_1)	USCG LNM: 04/01/2008 (06/03/2008) NGA NTM: 11/03/2001 (06/07/2008)
11480	39th	09/01/2005	1:449,659 (11480_1)	[L]NTM: ?
11009	37th	07/01/2004	1:1,200,000 (11009_1)	[L]NTM: ?
411	50th	09/01/2005	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	1958/1 LD=40ft @ mllw Awois 12980	Sounding	12.20 m	31° 02' 00.5" N	081° 12' 58.6" W	12980
1.2	946/1 LD=38ft @ mllw Awois 9890	Sounding	11.54 m	31° 04' 07.3" N	081° 16' 36.0" W	9890
1.3	513/1 LD= 35 ft @ mllw on subm obstr	Wreck	10.70 m	31° 04' 15.5" N	081° 16' 57.4" W	---

1 - DtoNs - Offshore

1.1) 1958/1 LD=40ft @ mllw Awois 12980**DANGER TO NAVIGATION****Primary Feature for AWOIS Item #12980**

Search Position: 31° 01' 60.0" N, 081° 13' 00.0" W
Historical Depth: [None]
Search Radius: 250
Search Technique: S2,MB,ES,SD
Technique Notes: [None]

History Notes:

LNM 34/98--8/25/98; ADD SUBM WRECK WITH A CLEARANCE OF 36 FT REPORTED WITH A POSITION OF 31/02/00.0N 081/13/00.0W. ENTERED CEH 2/05■■■OPR-G443-NRT2-05 26 July 2006 // 200% sss operation on DN:207 showed NO contacts of the charted Subm Wrk.■■■Recommend removal of the charted subm wrk, and the addition of the currently surveyed soundings. RWR

Survey Summary

Survey Position: 31° 02' 00.5" N, 081° 12' 58.6" W
Least Depth: 12.20 m (= 40.03 ft = 6.672 fm = 6 fm 4.03 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-207.15:26:08.106 (07/26/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-207 / 019_1524
Profile/Beam: 1958/1
Charts Affected: 11502_1, 11480_1, 11009_1, 411_1

Remarks:

200% sss operation on DN:207 showed NO contact of the reported feature.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-207/019_1524	1958/1	0.00	000.0	Primary
OPR-G443-BrunswickAwois	AWOIS # 12980	41.14	068.9	Secondary

Hydrographer Recommendations

Remove this charted subm wrk, and add surveyed sounding.

Cartographically-Rounded Depth (Affected Charts):

40ft (11502_1)

6 ½fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: EXPSOU - 1:within the range of depth of the surrounding depth area
INFORM - Delete the charted Subm Wrk
OBJNAM - LD sounding of 40ft @ mllw
QUASOU - 1:depth known
TECSOU - 1:found by echo-sounder
VERDAT - 12:Mean lower low water

Office Notes

Concur. Feature has already been removed from the latest raster.

1.2) 946/1 LD=38ft @ mllw Awois 9890**DANGER TO NAVIGATION****Primary Feature for AWOIS Item #9890**

Search Position: 31° 04' 06.6" N, 081° 16' 35.7" W
Historical Depth: 8.84 m
Search Radius: 70
Search Technique: [None]
Technique Notes: S2,MB,ES,DI,SD

History Notes:

H10764/97--DANG BUOY SUBM 29FT AT MLLW WAS LOCATED WITHIN THE MAINTAINED CHANNEL WITH A 32FT CONTROLLING DEPTH. POSITION GIVEN IN LAT 31-04-06.61N, LONG 81-16-35.73W. DIVERS FOUND THE SUNKEN NAVIGATION BUOY. CG NOTIFIED AND IS CURRENTLY SCHEDULING REMOVAL. ■ LNM38/98(9/98)--7TH CGD; SUNKEN BUOY REPORTED. (ENTERED 9/98 RWD) ■■OPR-G443-NRT2-05, 26 July 2006 (DN:207),400% sss was conducted over the reported feature with NO contacts found. This item was reported to the USCG, as per Awois report, for removal. The SSS work would support such removal took place. ■■Recommend removal from the charts. RWR

Survey Summary

Survey Position: 31° 04' 07.3" N, 081° 16' 36.0" W
Least Depth: 11.54 m (= 37.86 ft = 6.310 fm = 6 fm 1.86 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-207.17:57:28.039 (07/26/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-207 / 050_1756
Profile/Beam: 946/1
Charts Affected: 11504_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

400% sss was conducted over the reported feature with NO contacts found. This item was reported to the USCG, as per Awois report, for removal. The SSS work would support such removal took place. Ainti-DTON was submitted 25 OCT 2006.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-207/050_1756	946/1	0.00	000.0	Primary

OPR-G443-BrunswickAwois	AWOIS # 9890	23.68	344.2	Secondary
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Hydrographer Recommendations

Recommend removal of the charted obstn from the charts.

Cartographically-Rounded Depth (Affected Charts):

38ft (11504_1, 11506_1, 11502_1)

6 ¼fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes: INFORM - Awois 9890 found not to exist
 OBJNAM - Delete currently charted obstr 29ft
 QUASOU - 1:depth known
 TECSOU - 1,2:found by echo-sounder,found by side scan sonar
 VALSOU - 11.540 m
 VERDAT - 12:Mean lower low water
 WATLEV - 3:always under water/submerged

Geo object 2: Sounding (SOUNDG)

Attributes: EXPSOU - 1:within the range of depth of the surrounding depth area
 INFORM - General surveyed sounding in channel, Awois 9890
 OBJNAM - 38ft @ mllw
 QUASOU - 1:depth known
 TECSOU - 1:found by echo-sounder
 VERDAT - 12:Mean lower low water

Office Notes

Concur. Feature has already been removed from the latest raster.

1.3) 513/1 LD= 35 ft @ mllw on subm obstr**DANGER TO NAVIGATION****Survey Summary**

Survey Position: 31° 04' 15.5" N, 081° 16' 57.4" W
Least Depth: 10.70 m (= 35.11 ft = 5.852 fm = 5 fm 5.11 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-206.17:32:16.003 (07/25/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-206 / 003_1731
Profile/Beam: 513/1
Charts Affected: 11504_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

400% sss conducted on 25 26 Jul 2006 (DN:206) located unknown channel obstr appears man made. This item is located in the outbound quadrant of the channel approximately 50m off CL. The project depth of the channel is 38ft.

USACOE conducted dive ops on this item 25 SEP 2006, reported that it was a large buoy anchor (NOT active or attached). Plans to have removed are being undertaken by USACOE.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-206/003_1731	513/1	0.00	000.0	Primary
h11417/nrt2_1210_klein3000hf_200sss/2006-206/sss060725143700	0001	2.62	131.5	Secondary
h11417/nrt2_1210_klein3000hf_200sss/2006-206/sss060725174100	0001	3.76	128.4	Secondary
h11417/nrt2_1210_klein3000hf_200sss/2006-206/sss060725172700	0001	5.03	115.2	Secondary

Hydrographer Recommendations

None as the item is planned on being removed.

Cartographically-Rounded Depth (Affected Charts):

35ft (11504_1, 11506_1, 11502_1)

5 ¾fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Wreck (WRECKS)
Attributes: CATWRK - 2:dangerous wreck
QUASOU - 6:least depth known
STATUS - 1:permanent
TECSOU - 1,2:found by echo-sounder,found by side scan sonar
VALSOU - 10.702 m
VERDAT - 12:Mean lower low water
WATLEV - 3:always under water/submerged

Office Notes

Chart a dang. Wk with a depth of 35 ft. in Latitude 31-04-15.53N, Longitude 81-16-57.36W (see also survey correspondence).

Feature Images

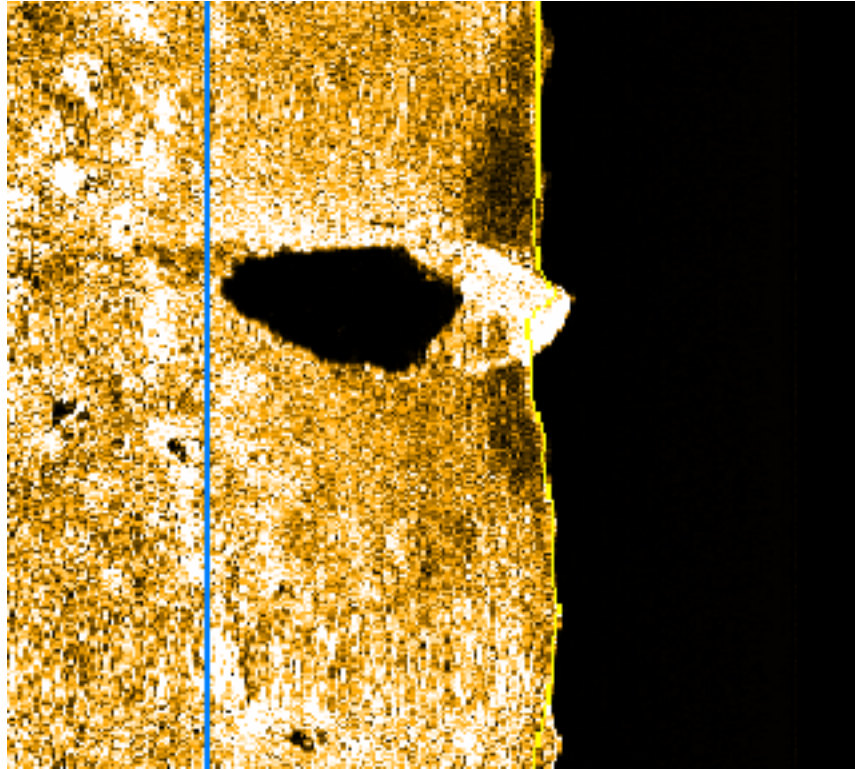


Figure 1.3.1

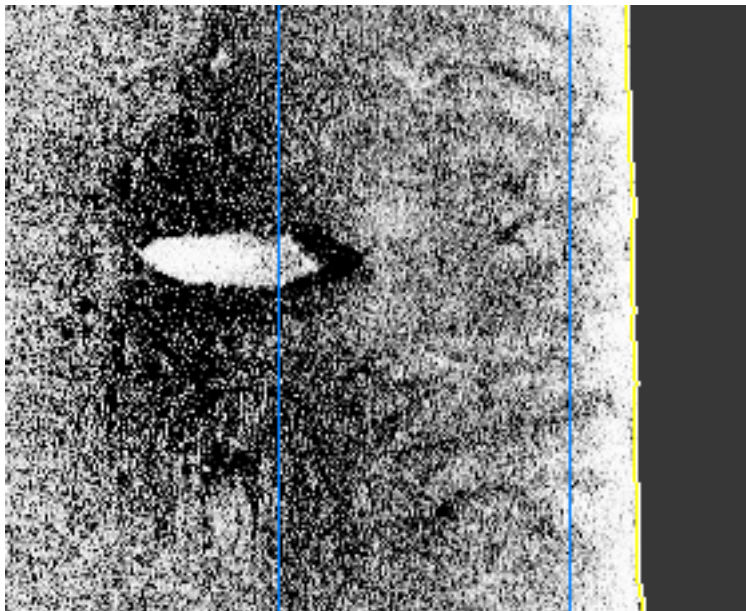


Figure 1.3.2

APPENDIX II

ITEM INVESTIGATION REPORTS

H11417 AWOIS Features Report

Registry Number: H11417
State: Georgia
Locality: Brunswick River
Sub-locality: East River Lower Reach to St. Simons Sound
Project Number: OPR-G443-NRT2-95
Survey Dates: 06/01/2006 - 09/26/2006

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11506	43rd	02/01/2007	1:40,000 (11506_1)	USCG LNM: 04/01/2008 (04/08/2008) NGA NTM: 09/26/1998 (04/12/2008)
11489	36th	06/01/2005	1:40,000 (11489_1)	[L]NTM: ?
11502	31st	01/01/2007	1:80,000 (11502_1)	USCG LNM: 04/01/2008 (06/03/2008) NGA NTM: 11/03/2001 (06/07/2008)
11480	39th	09/01/2005	1:449,659 (11480_1)	[L]NTM: ?
11009	37th	07/01/2004	1:1,200,000 (11009_1)	[L]NTM: ?
411	50th	09/01/2005	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	489/1 charted dang. 20 Rk - revise to 23 Rk	AWOIS	7.03 m	31° 06' 28.0" N	081° 25' 52.7" W	---
1.2	Danger Submerged Reef	AWOIS	-5.78 m	31° 06' 12.3" N	081° 25' 36.1" W	---

1 - Inshore AWOIS Items

1.1) AWOIS #3042 - charted dang. 20 Rk - revise to 23 Rk

Primary Survey Feature is Profile/Beam - 489/1 from h11417 / nrt2_1210_sb / 2006-269 / 002_1507

Search Position: 31° 06' 28.2" N, 081° 25' 52.6" W
Historical Depth: 6.10 m
Search Radius: 70
Search Technique: ES,BD,DI,MB,S2
Technique Notes: [None]

History Notes:

CL450/83--LTR. DATED 2 MAY 1983; COE REGULATORY BRANCH, SAVANNAH DISTRICT; ■HAZARD TO NAVIGATION REPORTED IN CEDAR HAMMOCK RANGE CHANNEL IN VICINITY ■OF ITS INTERSECTION WITH JEKYLL ISLAND RANGE IN BRUNSWICK HARBOR, GLYNN ■COUNTY, GEORGIA. APPROX. POS. LAT. 31-06-31N, LONG. 81-25-42W IN APPROX. 25 ■FT (MLW). SURVEY AND SWEEP OF AREA WILL BE CONDUCTED. VESSELS ADVISED TO ■STAY CLEAR OF THIS PORTION OF CHANNEL. ■ LNM18/83 (5/4/83)--7TH CGD, HAZARD TO NAVIGATION. UNIDENTIFIED OBSTRUCTION ■REPORTED NEAR INTERSECTION OF CEDAR HAMMOCK RANGE AND JEKYLL ISLAND RANGE ■IN APPROX. POS. LAT. 31-06-31N, LONG. 81-25-42W. ■ LNM19/83 (5/11/83)--7TH CGD, HAZARD TO NAVIGATION- REPEATED FOR SAFETY. SAME ■AS ABOVE. ■ CL944/83--LTR. DATED SEPT. 1, 1983, NOAA SHIP WHITING. 20 FOOT SHOAL (MLLW) ■IN LAT 31-06-27.33N, LONG 81-25-53.27W(NAD27). 3 POINT SEXTANT FIX. OBSTRUCTION ■DETERMINED TO BE A "ROCK WALL" ALONG SOUTHERN BOUNDARY OF CHANNEL. PRELIMINARY ■DATA. ■ D19/83--OPR-S-G904-WH-83-FILED AS CL1121/86; 20FT ROCK LEDGE RISES 8FT OFF ■BOTTOM, APPROXIMATELY 100 TO 200M IN LENGTH, DIVER DETERMINED. INADEQUATE ■POSITIONING ATTRIBUTED TO INACCURATE POSITIONS OF FIXED AIDS ■NEGATES THE REMOVAL OF THE CHARTED PA. THE PRESENT SURVEY IS ■CONSIDERED INCOMPLETE UNTIL AN ACCURATE POSITION OF THE LEDGE IS ■DETERMINED. (UPDATED 10/86 RWD) (UPDATED 2/97)■■■ DESCRIPTION■■■■ TELECON, MAY 24, 1983, EDWIN FENDIG JR. (SENIOR PILOT, BRUNSWICK BAR ■PILOTS ASSOCIATION, TEL. 912-638-3668) WITH N/CG241. VESSEL OUTBOUND ■ 11-12 KNOTS, STRUCK SUBMERGED OBJECT IN APPROX. POS. LAT.31-06-31N, ■ LONG.81-25-42W. SHIP DREW 24 FT. AFT. COE TIDE GAGE INDICATED 0 AT TIME ■ OF ACCIDENT. FIST-SIZE PUNCTURE NEAR KEEL AND CYLINDRICAL SHAPED GOUGE ■ ON STARBOARD SIDE, 200 FT LONG IN LOWER HULL AREA.■■■OPR-G443-NRT2-05, H11417, 2006: ■200% sss and SB development over contacts were conducted.■■■Rocky ridge was developed lying along the southern channel wall. Shoalest depth located was 23ft @ mllw.■■■Recommendation:Remove 20ft soundining and add 23 ft sounding. Retain chart obstruction symbol.RWR

Survey Summary

Survey Position: 31° 06' 28.0" N, 081° 25' 52.7" W
Least Depth: 7.03 m (= 23.05 ft = 3.841 fm = 3 fm 5.05 ft)
TPU (±1.96σ): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-269.15:07:43.695 (09/26/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-269 / 002_1507

Profile/Beam: 489/1

Charts Affected: 11489_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

200% sss and SB development over contacts were conducted.

Rocky ridge was developed lying along the southern channel wall. Shoalest depth located was 23ft @ mllw, item is associated with Awois#3042.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-269/002_1507	489/1	0.00	000.0	Primary
OPR-G443-BrunswickAwois	AWOIS # 3042	5.17	190.3	Secondary
h11417/nrt2_1210_klein3000hf_100sss/2006-108/sss060418173400	0009	9.26	084.3	Secondary
h11417/nrt2_1210_klein3000hf_200sss/2006-143/sss060523165000	0003	17.32	240.1	Secondary
h11417/nrt2_1210_klein3000hf_200sss/2006-143/sss060523145100	0002	45.84	087.5	Secondary

Hydrographer Recommendations

Remove 20ft sounding and add 23 ft sounding. Retain chart obstruction symbol.

Cartographically-Rounded Depth (Affected Charts):

23ft (11489_1, 11506_1, 11502_1)

3 ¾fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: INFORM - AWOIS Item #3042

QUASOU - 6:least depth known

STATUS - 1:permanent

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

VALSOU - 7.025 m

VERDAT - 16:Mean high water

WATLEV - 3:always under water/submerged

Office Notes

Revise charted dang 20 Rk to a dang 23 Rk in Latitude 31-06-28.00N, Longitude 81-25-52.65W.

1.2) AWOIS #12972 - OBSTRUCTION

Primary Survey Feature is Profile/Beam - 1/1 from h11417 / nrt2_1210_dpnonechosounder / 2006-152 / 06012006

Search Position: 31° 06' 13.1" N, 081° 25' 36.3" W
Historical Depth: [None]
Search Radius: 200
Search Technique: VS
Technique Notes: IF FEASIBLE, GET POSITIONS OF FISH HAVEN BOUNDARY USING VISUAL INSPECTION

History Notes:

L-1014/88--1/15/88; USACE-SAVANNAH DISTRICT DEPARTMENT OF ARMY PERMIT FOR THE DISCHARGE FILL INTO NAVIGABLE WATERS INCIDENTAL TO CONSTRUCTION OF A SHALLOW, INSHORE ARTIFICIAL REEF CONSISTING OF FISH AGGREGATING DEVICES (FADS). THE FADS CONSIST OF FOAM-FILLED FLOATING PLASTIC 55-GALLON DRUMS ANCHORED TO 200 POUND CEMENT BLOCKS AND 3' SQUARE X 4" THICK CONCRETE PADS WITH 1.5" ROUND X 5' LONG PVC PIPES EXTENDING UPWARD. THE FADS WILL BE PLACED IN A GRID NETWORK FROM THE LOW TIDE LINE OUT TO A DEPTH OF APPROXIMATELY 10' DURING LOW TIDES. THEY WILL BE PARTIALLY EXPOSED DURING LOW WATER AND WILL BE MARKED BY APPROPRIATE SIGNS ON PILING. ■■■OPR-G443-NRT2-05 , H-11417,2006 ■Artifical reef, Fish Haven. Exist as charted with readjustments ■to the western limits, as defined by the two new positions of the ■Danger Beacons. ■Adjust the western Danger DBN's, reflecting the true limits. The ■eastern, and northern beacon locations are on station. ■Hydrographer recommends removing the currently charted marker at ■31.10300248N , 081.42789325W (459194.51E , 3441096.00N).Chart the new marker at 31°06'13.393" , -081°25'36.957". ■■■Hydrographer recommends removing the currently charted marker at ■31.10269088N , 081.42745869W (459235.82E , 3441061.30N); and charting the new marker at 31°06'12.206" , -081°25'36.062".

Survey Summary

Survey Position: 31° 06' 12.3" N, 081° 25' 36.1" W
Least Depth: -5.78 m (= -18.98 ft = -3.163 fm = -3 fm 0.98 ft)
TPU (±1.96σ): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-152.16:23:34.000 (06/01/2006)
DP Dataset: h11417 / nrt2_1210_dpnonechosounder / 2006-152 / 06012006
Profile/Beam: 1/1
Charts Affected: 11489_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

Danger Submerged Reef. SE Marker. Found mark to be off station.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_dpnonechosounder/2006-152/06012006	1/1	0.00	000.0	Primary
OPR-G443-BrunswickAwois	AWOIS # 12972	29.56	167.7	Secondary

Hydrographer Recommendations

Hydrographer recommends removing the currently charted marker at 31.10269088N , 081.42745869W (459235.82E , 3441061.30N); and charting the new marker at 31°06'12.206" , -081°25'36.062".

Cartographically-Rounded Depth (Affected Charts):

-19ft (11489_1, 11506_1, 11502_1)

-3fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Beacon, isolated danger (BCNISD)

Attributes: BCNSHP - 5:pile beacon
 COLOUR - 2:black
 COLPAT - 4:squared
 CONRAD - 2:not radar conspicuous
 HEIGHT - 5.78 m
 INFORM - Fish Haven Reef
 OBJNAM - Danger Beacon
 STATUS - 1:permanent
 VERDAT - 12:Mean lower low water

Geo object 2: Daymark (DAYMAR)

Attributes: COLOUR - 1:white
 COLPAT - 6:border stripes
 HEIGHT - 5.78 m
 INFORM - Danger Submerged
 OBJNAM - Danger Beacon
 STATUS - 1:permanent
 TOPSHP - 19:square
 VERDAT - 12:Mean lower low water

Office Notes

Defer Beacon updates to Marine Chart Division, Source Data Branch. Recommend MCD obtain updated locations from original sources for accurate charting of the Beacons and Obstn (Fish Haven) currently charted with the note PA.

Feature Images



Figure 1.2.1

H11417 Uncharted Features Report

Registry Number: H11417
State: Georgia
Locality: Brunswick River
Sub-locality: East River Lower Reach to St. Simons Sound
Project Number: OPR-G443-NRT2-95
Survey Dates: 05/24/2006 - 10/07/2008

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11506	43rd	02/01/2007	1:40,000 (11506_1)	USCG LNM: 04/01/2008 (04/08/2008) NGA NTM: 09/26/1998 (04/12/2008)
11507	32nd	12/01/2004	1:40,000 (11507_7)	[L]NTM: ?
11489	36th	06/01/2005	1:40,000 (11489_1)	[L]NTM: ?
11502	31st	01/01/2007	1:80,000 (11502_1)	USCG LNM: 04/01/2008 (06/03/2008) NGA NTM: 11/03/2001 (06/07/2008)
11480	39th	09/01/2005	1:449,659 (11480_1)	[L]NTM: ?
11009	37th	07/01/2004	1:1,200,000 (11009_1)	[L]NTM: ?
411	50th	09/01/2005	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	876/1 LD=3 ft @ mllw on charted rock	Rock	1.02 m	31° 06' 30.5" N	081° 27' 08.6" W	---
1.2	Danger Submerged Reef	Daybeacon (open)	-5.78 m	31° 06' 12.3" N	081° 25' 36.1" W	12972
1.3	Danger Submerged Reef	Daybeacon (open)	-5.79 m	31° 06' 13.4" N	081° 25' 37.0" W	---
1.4	444/1 LD=20ft @ mllw subm obstr	Obstruction	6.30 m	31° 06' 56.2" N	081° 29' 08.1" W	---
1.5	984/1 - delete charted subm piles	Sounding	4.06 m	31° 09' 48.4" N	081° 25' 05.2" W	---
1.6	East red bridge light	Sounding	-4.20 m	31° 10' 02.0" N	081° 24' 45.2" W	---
1.7	Green center light	Sounding	-4.73 m	31° 10' 02.1" N	081° 24' 45.9" W	---
1.8	Western red bridge light.	Sounding	-4.25 m	31° 10' 02.6" N	081° 24' 46.1" W	---
1.9	Underwater cable crossing sign West.	Sounding	-3.89 m	31° 10' 07.9" N	081° 24' 55.6" W	---

1.10	489/1 charted dang. 20 Rk - revise to 23 Rk	Rock	7.03 m	31° 06' 28.0" N	081° 25' 52.7" W	3042
1.11	0001 - Dol - Ht. Unknown	Dolphin	[None]	31° 07' 20.9" N	081° 28' 41.5" W	---
1.12	0010 - uncharted pier SW end	Stationary structure, floating or fixed	[None]	31° 07' 21.1" N	081° 28' 41.2" W	---
1.13	0015 - uncharted pier NE end	Stationary structure, floating or fixed	[None]	31° 07' 22.3" N	081° 28' 36.6" W	---
1.14	0016 - subm pile - least depth unknown	Pile	[None]	31° 07' 22.3" N	081° 28' 36.4" W	---

1 - Uncharted_Features

1.1) 876/1 LD=3 ft @ mllw on charted rock

Survey Summary

Survey Position: 31° 06' 30.5" N, 081° 27' 08.6" W
Least Depth: 1.02 m (= 3.33 ft = 0.556 fm = 0 fm 3.33 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-144.14:00:01.328 (05/24/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-144 / 440_1
Profile/Beam: 876/1
Charts Affected: 11489_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

SB developement over charted rock. Rock slab found as charted.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-144/440_1	876/1	0.00	000.0	Primary

Hydrographer Recommendations

Retain,add LD= 3ft @mllw.

Cartographically-Rounded Depth (Affected Charts):

3ft (11489_1, 11506_1, 11502_1)

0 ½fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: INFORM - sb developed sounding
 OBJNAM - Rock Slab
 QUASOU - 6:least depth known
 STATUS - 1:permanent
 TECSOU - 1:found by echo-sounder
 VALSOU - 1.016 m
 VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

Office Notes

Concur w/clarification. Delete the charted rock awash and chart a rock with a depth of 3 ft. in Latitude 31-06-30.52N, Longitude 81-27-08.57W.

1.2) Danger Submerged Reef

Primary Feature for AWOIS Item #12972

Search Position: 31° 06' 13.1" N, 081° 25' 36.3" W
Historical Depth: [None]
Search Radius: 200
Search Technique: VS
Technique Notes: IF FEASIBLE, GET POSITIONS OF FISH HAVEN BOUNDARY USING VISUAL INSPECTION

History Notes:

L-1014/88--1/15/88; USACE-SAVANNAH DISTRICT DEPARTMENT OF ARMY PERMIT FOR THE DISCHARGE FILL INTO NAVIGABLE WATERS INCIDENTAL TO CONSTRUCTION OF A SHALLOW, INSHORE ARTIFICIAL REEF CONSISTING OF FISH AGGREGATING DEVICES (FADS). THE FADS CONSIST OF FOAM-FILLED FLOATING PLASTIC 55-GALLON DRUMS ANCHORED TO 200 POUND CEMENT BLOCKS AND 3' SQUARE X 4" THICK CONCRETE PADS WITH 1.5" ROUND X 5' LONG PVC PIPES EXTENDING UPWARD. THE FADS WILL BE PLACED IN A GRID NETWORK FROM THE LOW TIDE LINE OUT TO A DEPTH OF APPROXIMATELY 10' DURING LOW TIDES. THEY WILL BE PARTIALLY EXPOSED DURING LOW WATER AND WILL BE MARKED BY APPROPRIATE SIGNS ON PILING. ■■■OPR-G443-NRT2-05 , H-11417,2006 ■Artifiscal reef, Fish Haven. Exist as charted with readjustments■to the western limits, as defined by the two new positions of the ■Danger Beacons.■Adjust the western Danger DBN's, reflecting the true limits. The ■eastern, and northern beacon locations are on station.■Hydrographer recommends removing the currently charted marker at ■31.10300248N , 081.42789325W (459194.51E , 3441096.00N).Chart the new marker at 31°06'13.393" , -081°25'36.957".■■■Hydrographer recommends removing the currently charted marker at ■31.10269088N , 081.42745869W (459235.82E , 3441061.30N); and charting the new marker at 31°06'12.206" , -081°25'36.062".

Survey Summary

Survey Position: 31° 06' 12.3" N, 081° 25' 36.1" W
Least Depth: -5.78 m (= -18.98 ft = -3.163 fm = -3 fm 0.98 ft)
TPU (±1.96σ): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-152.16:23:34.000 (06/01/2006)
DP Dataset: h11417 / nrt2_1210_dpnonechosounder / 2006-152 / 06012006
Profile/Beam: 1/1
Charts Affected: 11489_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

Danger Submerged Reef. SE Marker. Found mark to be off station.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_dpnonechosounder/2006-152/06012006	1/1	0.00	000.0	Primary
OPR-G443-BrunswickAwois	AWOIS # 12972	29.56	167.7	Secondary

Hydrographer Recommendations

Hydrographer recommends removing the currently charted marker at 31.10269088N , 081.42745869W (459235.82E , 3441061.30N); and charting the new marker at 31°06'12.206" , -081°25'36.062".

Cartographically-Rounded Depth (Affected Charts):

-19ft (11489_1, 11506_1, 11502_1)

-3fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Beacon, isolated danger (BCNISD)
Attributes: BCNSHP - 5:pile beacon
 COLOUR - 2:black
 COLPAT - 4:squared
 CONRAD - 2:not radar conspicuous
 HEIGHT - 5.78 m
 INFORM - Fish Haven Reef
 OBJNAM - Danger Beacon
 STATUS - 1:permanent
 VERDAT - 12:Mean lower low water

Geo object 2: Daymark (DAYMAR)
Attributes: COLOUR - 1:white
 COLPAT - 6:border stripes
 HEIGHT - 5.78 m
 INFORM - Danger Submerged
 OBJNAM - Danger Beacon
 STATUS - 1:permanent
 TOPSHP - 19:square
 VERDAT - 12:Mean lower low water

Office Notes

Defer Beacon updates to Marine Chart Division, Source Data Branch. Recommend MCD obtain updated locations from original sources for accurate charting of the Beacons and Obstn (Fish Haven) currently charted with the note PA.

Feature Images



Figure 1.2.1

1.3) Danger Submerged Reef

Survey Summary

Survey Position: 31° 06' 13.4" N, 081° 25' 37.0" W
Least Depth: -5.79 m (= -19.00 ft = -3.167 fm = -3 fm 1.00 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-152.16:25:43.000 (06/01/2006)
DP Dataset: h11417 / nrt2_1210_dpnonechosounder / 2006-152 / 06012006
Profile/Beam: 2/1
Charts Affected: 11489_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

Danger Submerged Reef. SW Marker. Found mark to be off station.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_dpnonechosounder/2006-152/06012006	2/1	0.00	000.0	Primary

Hydrographer Recommendations

Hydrographer recommends removing the currently charted marker at 31.10300248N , 081.42789325W (459194.51E , 3441096.00N).Chart the new marker at 31°06'13.393" , -081°25'36.957".

Cartographically-Rounded Depth (Affected Charts):

-19ft (11489_1, 11506_1, 11502_1)
 -3fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Beacon, isolated danger (BCNISD)
Attributes: BCNSHP - 5:pile beacon
 COLOUR - 1:white
 COLPAT - 4:squared
 CONRAD - 2:not radar conspicuous
 HEIGHT - 5.29 m
 INFORM - Fish Haven Reef

OBJNAM - Danger Beacon
STATUS - 1:permanent
VERDAT - 12:Mean lower low water

Geo object 2: Beacon, special purpose/general (BCNSPP)

Attributes: BCNSHP - 5:pile beacon
CATSPM - 13:private mark
COLOUR - 1:white
COLPAT - 4:squared
CONRAD - 2:not radar conspicuous
HEIGHT - 5.29 m
INFORM - Artificial Reef

OBJNAM - Danger Beacon
STATUS - 1:permanent
VERDAT - 12:Mean lower low water

Geo object 3: Daymark (DAYMAR)

Attributes: COLOUR - 1:white
COLPAT - 4:squared
HEIGHT - 5.79 m
INFORM - Artificial Reef

OBJNAM - Danger Beacon
STATUS - 1:permanent
TOPSHP - 6:board
VERDAT - 12:Mean lower low water

Office Notes

Defer Beacon updates to Marine Chart Division, Source Data Branch. Recommend MCD obtain updated locations from original sources for accurate charting of the Beacons and Obstn (Fish Haven) currently charted with the note PA.

Feature Images



Figure 1.3.1



Figure 1.3.2

1.4) 444/1 LD=20ft @ mllw subm obstr

Survey Summary

Survey Position: 31° 06' 56.2" N, 081° 29' 08.1" W
Least Depth: 6.30 m (= 20.68 ft = 3.447 fm = 3 fm 2.68 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-158.14:10:55.916 (06/07/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-158 / 001_1410
Profile/Beam: 444/1
Charts Affected: 11489_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

LD over sss contact developement.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-158/001_1410	444/1	0.00	000.0	Primary
h11417/nrt2_1210_klein3000hf_200sss/2006-145/sss060525173400	0004	6.32	096.4	Secondary

Hydrographer Recommendations

Chart subm obstr.

Cartographically-Rounded Depth (Affected Charts):

20ft (11489_1, 11506_1, 11502_1)

3 ½fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: NATCON - 4:hard surfaced
 OBJNAM - subm obstr
 QUASOU - 6:least depth known
 STATUS - 1:permanent
 TECSOU - 1,2:found by echo-sounder,found by side scan sonar
 VALSOU - 6.304 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

Office Notes

Concur. Chart an Obstn with a depth of 20 ft. in Latitude 31-06-56.25N, Longitude 81-29-08.08W.

Feature Images

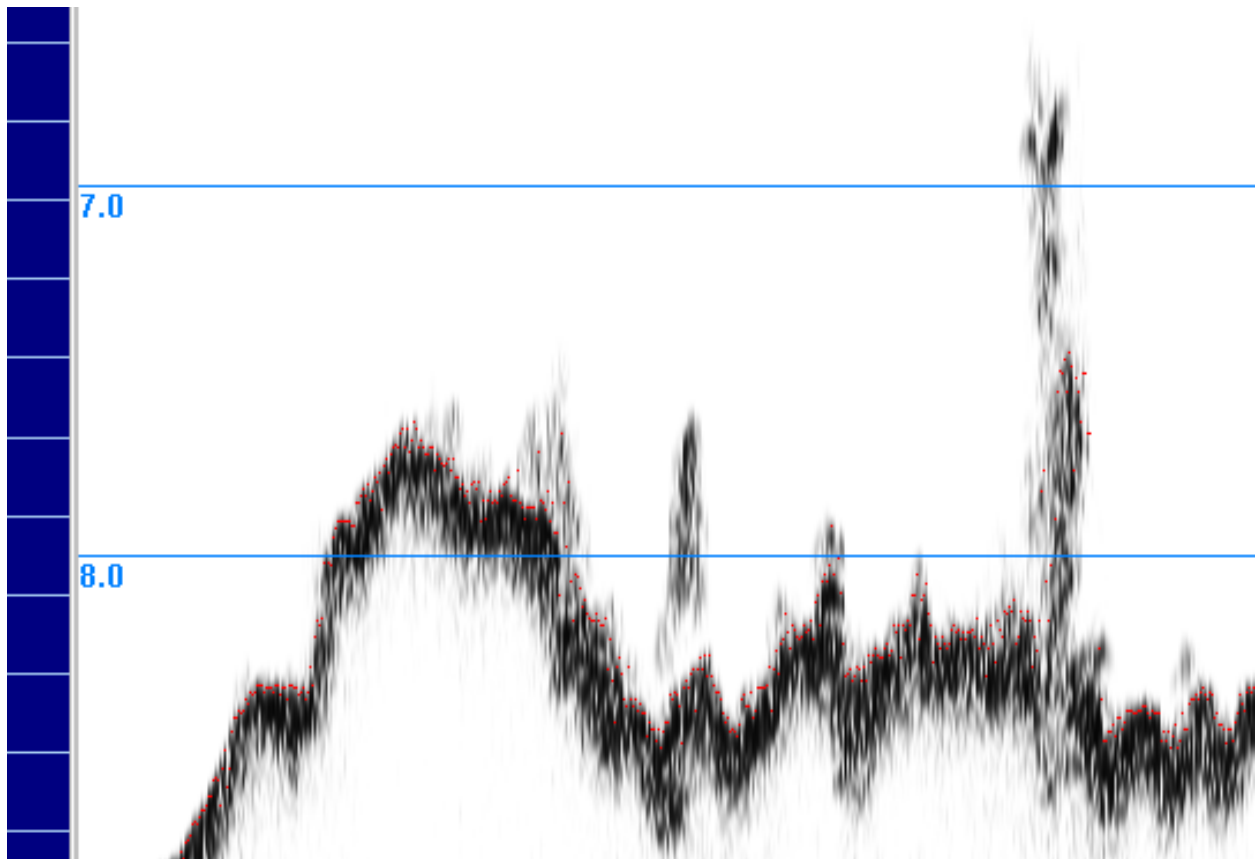


Figure 1.4.1

1.5) 984/1 - delete charted subm piles

Survey Summary

Survey Position: 31° 09' 48.4" N, 081° 25' 05.2" W
Least Depth: 4.06 m (= 13.31 ft = 2.219 fm = 2 fm 1.31 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-157.13:14:09.000 (06/06/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-157 / 004_1313
Profile/Beam: 984/1
Charts Affected: 11506_1, 11507_7, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

200 % sss showed no significant contacts associated with the currently charted row of piles at 31.16334099N , 081.41836697W (460128.23E , 3447779.78N).

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-157/004_1313	984/1	0.00	000.0	Primary

Hydrographer Recommendations

Remove the row of 6 charted piles in the vicinity of 31.16329346N , 081.41839470W (460125.57E , 3447774.52N).

Cartographically-Rounded Depth (Affected Charts):

13ft (11506_1, 11507_7, 11502_1)

2 ¼fm (11480_1, 11009_1, 411_1)

S-57 Data

[None]

Office Notes

Concur. Delete the six charted subm piles.

1.6) East red bridge light

Survey Summary

Survey Position: 31° 10' 02.0" N, 081° 24' 45.2" W
Least Depth: -4.20 m (= -13.78 ft = -2.297 fm = -2 fm 1.78 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-166.12:59:19.000 (06/15/2006)
DP Dataset: h11417 / nrt2_1210_dpnonechosounder / 2006-166 / 2006 166 dps
Profile/Beam: 1/1
Charts Affected: 11506_1, 11507_7, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

Eastern bridge passage light. No fenders

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_dpnonechosounder/2006-166/2006 166 dps	1/1	0.00	000.0	Primary

Hydrographer Recommendations

Remove charted bridge fenders. Chart Red Channel limit light at the surveyed position.

Cartographically-Rounded Depth (Affected Charts):

-14ft (11506_1, 11507_7, 11502_1)

-2 ¼fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Light (LIGHTS)
Attributes: CATLIT - 19:horizontally disposed
 COLOUR - 3:red
 HEIGHT - 4.20 m
 INFORM - Red Eastern channel brdg passage light
 OBJNAM - Bridge passage light
 STATUS - 1:permanent
 VERDAT - 12:Mean lower low water

Office Notes

Defer Lighting updates to Marine Chart Division, Source Data Branch.

1.7) Green center light

Survey Summary

Survey Position: 31° 10' 02.1" N, 081° 24' 45.9" W
Least Depth: -4.73 m (= -15.53 ft = -2.589 fm = -2 fm 3.53 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-166.13:03:55.000 (06/15/2006)
DP Dataset: h11417 / nrt2_1210_dpnonechosounder / 2006-166 / 2006 166 dps
Profile/Beam: 2/1
Charts Affected: 11506_1, 11507_7, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

Centerline passage marker. Green light.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_dpnonechosounder/2006-166/2006 166 dps	2/1	0.00	000.0	Primary

Hydrographer Recommendations

Remove charted bridge fenders. Chart Green Channel centerline light at the surveyed position.

Cartographically-Rounded Depth (Affected Charts):

-16ft (11506_1, 11507_7, 11502_1)
 -2 ½fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Light (LIGHTS)
Attributes: CATLIT - 1:directional function
 COLOUR - 4:green
 HEIGHT - 4.73 m
 INFORM - mid channel lt
 OBJNAM - Green bridg centerline channel passage
 STATUS - 1:permanent
 VERDAT - 12:Mean lower low water

Office Notes

Defer Lighting updates to Marine Chart Division, Source Data Branch.

1.8) Western red bridge light.

Survey Summary

Survey Position: 31° 10' 02.6" N, 081° 24' 46.1" W
Least Depth: -4.25 m (= -13.95 ft = -2.326 fm = -2 fm 1.95 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-166.13:06:21.000 (06/15/2006)
DP Dataset: h11417 / nrt2_1210_dpnonechosounder / 2006-166 / 2006 166 dps
Profile/Beam: 3/1
Charts Affected: 11506_1, 11507_7, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

Western bridge passage light. No fenders

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_dpnonechosounder/2006-166/2006 166 dps	3/1	0.00	000.0	Primary

Hydrographer Recommendations

Remove charted bridge fenders. Chart Red Channel limit light at the surveyed position.

Cartographically-Rounded Depth (Affected Charts):

-14ft (11506_1, 11507_7, 11502_1)
 -2 ¼fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Light (LIGHTS)
Attributes: CATLIT - 19:horizontally disposed
 COLOUR - 3:red
 HEIGHT - 4.25 m
 INFORM - Red Western channel brdg passage light
 STATUS - 1:permanent
 VERDAT - 12:Mean lower low water

Office Notes

Defer Lighting updates to Marine Chart Division, Source Data Branch.

Feature Images



Figure 1.8.1

1.9) Underwater cable crossing sign West.

Survey Summary

Survey Position: 31° 10' 07.9" N, 081° 24' 55.6" W
Least Depth: -3.89 m (= -12.77 ft = -2.128 fm = -2 fm 0.77 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-166.13:23:38.000 (06/15/2006)
DP Dataset: h11417 / nrt2_1210_dpnonechosounder / 2006-166 / 2006 166 dps
Profile/Beam: 4/1
Charts Affected: 11506_1, 11507_7, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

Orange warning sign underwater cable crossing.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_dpnonechosounder/2006-166/2006 166 dps	4/1	0.00	000.0	Primary

Hydrographer Recommendations

[None]

Cartographically-Rounded Depth (Affected Charts):

-13ft (11506_1, 11507_7, 11502_1)

-2fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Beacon, isolated danger (BCNISD)
Attributes: BCNSHP - 5:pole beacon
 COLOUR - 11:orange
 COLPAT - 4:squared
 CONRAD - 2:not radar conspicuous
 HEIGHT - 3.89 m
 INFORM - crossing runs parallel
 OBJNAM - U/W Cable crossing sign

STATUS - 1:permanent

VERDAT - 12:Mean lower low water

Office Notes

Defer Signage updates to Marine Chart Division, Source Data Branch.

Feature Images



Figure 1.9.1

1.10) 489/1 charted dang. 20 Rk - revise to 23 Rk**Primary Feature for AWOIS Item #3042**

Search Position: 31° 06' 28.2" N, 081° 25' 52.6" W
Historical Depth: 6.10 m
Search Radius: 70
Search Technique: ES,BD,DI,MB,S2
Technique Notes: [None]

History Notes:

CL450/83--LTR. DATED 2 MAY 1983; COE REGULATORY BRANCH, SAVANNAH DISTRICT; ■HAZARD TO NAVIGATION REPORTED IN CEDAR HAMMOCK RANGE CHANNEL IN VICINITY ■OF ITS INTERSECTION WITH JEKYLL ISLAND RANGE IN BRUNSWICK HARBOR, GLYNN ■COUNTY, GEORGIA. APPROX. POS. LAT. 31-06-31N, LONG. 81-25-42W IN APPROX. 25 ■FT (MLW). SURVEY AND SWEEP OF AREA WILL BE CONDUCTED. VESSELS ADVISED TO ■STAY CLEAR OF THIS PORTION OF CHANNEL. ■ LNM18/83 (5/4/83)--7TH CGD, HAZARD TO NAVIGATION. UNIDENTIFIED OBSTRUCTION ■REPORTED NEAR INTERSECTION OF CEDAR HAMMOCK RANGE AND JEKYLL ISLAND RANGE ■IN APPROX. POS. LAT. 31-06-31N, LONG. 81-25-42W. ■ LNM19/83 (5/11/83)--7TH CGD, HAZARD TO NAVIGATION- REPEATED FOR SAFETY. SAME ■AS ABOVE. ■ CL944/83--LTR. DATED SEPT. 1, 1983, NOAA SHIP WHITING. 20 FOOT SHOAL (MLLW) ■IN LAT 31-06-27.33N, LONG 81-25-53.27W(NAD27). 3 POINT SEXTANT FIX. OBSTRUCTION ■DETERMINED TO BE A "ROCK WALL" ALONG SOUTHERN BOUNDARY OF CHANNEL. PRELIMINARY ■DATA. ■ D19/83--OPR-S-G904-WH-83-FILED AS CL1121/86; 20FT ROCK LEDGE RISES 8FT OFF ■BOTTOM, APPROXIMATELY 100 TO 200M IN LENGTH, DIVER DETERMINED. INADEQUATE ■POSITIONING ATTRIBUTED TO INACCURATE POSITIONS OF FIXED AIDS ■NEGATES THE REMOVAL OF THE CHARTED PA. THE PRESENT SURVEY IS ■CONSIDERED INCOMPLETE UNTIL AN ACCURATE POSITION OF THE LEDGE IS ■DETERMINED. (UPDATED 10/86 RWD) (UPDATED 2/97)■■■ DESCRIPTION■■■■ TELECON, MAY 24, 1983, EDWIN FENDIG JR. (SENIOR PILOT, BRUNSWICK BAR ■PILOTS ASSOCIATION, TEL. 912-638-3668) WITH N/CG241. VESSEL OUTBOUND ■ 11-12 KNOTS, STRUCK SUBMERGED OBJECT IN APPROX. POS. LAT.31-06-31N, ■ LONG.81-25-42W. SHIP DREW 24 FT. AFT. COE TIDE GAGE INDICATED 0 AT TIME ■ OF ACCIDENT. FIST-SIZE PUNCTURE NEAR KEEL AND CYLINDRICAL SHAPED GOUGE ■ ON STARBOARD SIDE, 200 FT LONG IN LOWER HULL AREA.■■■OPR-G443-NRT2-05, H11417, 2006: ■200% sss and SB development over contacts were conducted.■■■Rocky ridge was developed lying along the southern channel wall. Shoalest depth located was 23ft @ mllw.■■■Recommendation:Remove 20ft sounding and add 23 ft sounding. Retain chart obstruction symbol.RWR

Survey Summary

Survey Position: 31° 06' 28.0" N, 081° 25' 52.7" W
Least Depth: 7.03 m (= 23.05 ft = 3.841 fm = 3 fm 5.05 ft)
TPU (±1.96σ): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-269.15:07:43.695 (09/26/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-269 / 002_1507
Profile/Beam: 489/1

Charts Affected: 11489_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

200% sss and SB developement over contacts were conducted.

Rocky ridge was developed lieing along the southern channel wall. Shoalest depth located was 23ft @ mllw, item is associated with Awois#3042.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-269/002_1507	489/1	0.00	000.0	Primary
OPR-G443-BrunswickAwois	AWOIS # 3042	5.17	190.3	Secondary
h11417/nrt2_1210_klein3000hf_100sss/2006-108/sss060418173400	0009	9.26	084.3	Secondary
h11417/nrt2_1210_klein3000hf_200sss/2006-143/sss060523165000	0003	17.32	240.1	Secondary
h11417/nrt2_1210_klein3000hf_200sss/2006-143/sss060523145100	0002	45.84	087.5	Secondary

Hydrographer Recommendations

Remove 20ft sounding and add 23 ft sounding. Retain chart obstruction symbol.

Cartographically-Rounded Depth (Affected Charts):

23ft (11489_1, 11506_1, 11502_1)

3 ¾fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Underwater rock / awash rock (UWTROC)

Attributes: INFORM - AWOIS Item #3042

QUASOU - 6:least depth known

STATUS - 1:permanent

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

VALSOU - 7.025 m

VERDAT - 16:Mean high water

WATLEV - 3:always under water/submerged

Office Notes

Revise charted dang 20 Rk to a dang 23 Rk in Latitude 31-06-28.00N, Longitude 81-25-52.65W.

1.11) 0001 - Dol - Ht. Unknown

Survey Summary

Survey Position: 31° 07' 20.9" N, 081° 28' 41.5" W
Least Depth: [None]
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2008-281.04:44:51 (10/07/2008)
Survey Line: h11417 / nrt2_1210_klein3000hf_100sss / 2006-110 / sss060420170500
Contact/Point: 0001/1
Charts Affected: 11489_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

Uncharted Dolphin not noticed by field personnel, caught by office personnel during side scan review. Google Local Satellite Imagery and Microsoft Windows Live Local Satellite Imagery websites were referred to in order to confirm presence of the uncharted pier, images are included. Dolphin at end of pier identified in side scan imagery.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0001	0.00	000.0	Primary
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420165800	0002	0.99	192.8	Secondary

Hydrographer Recommendations

Dolphin at SW end of uncharted pier

S-57 Data

Geo object 1: Mooring/warping facility (MORFAC)
Attributes: CATMOR - 1:dolphin
 STATUS - 1:permanent
 VERDAT - 12:Mean lower low water
 WATLEV - 2:always dry

Office Notes

Chart a Dol in Latitude 31-07-20.95N, Longitude 81-28-41.53W.

1.12) 0010 - uncharted pier SW end

Survey Summary

Survey Position: 31° 07' 21.1" N, 081° 28' 41.2" W
Least Depth: [None]
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2008-281.04:48:25 (10/07/2008)
Survey Line: h11417 / nrt2_1210_klein3000hf_100sss / 2006-110 / sss060420170500
Contact/Point: 0010/1
Charts Affected: 11489_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

Uncharted pier not noticed by field personnel, caught by office personnel during side scan review. Google Local Satellite Imagery and Microsoft Windows Live Local Satellite Imagery websites were referred to in order to confirm presence of the uncharted pier, images are included. SW end of pier observed from side scan imagery.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0010	0.00	000.0	Primary
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420165800	0003	3.36	129.2	Secondary
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0006	4.19	151.5	Secondary (grouped)
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420165800	0004	9.02	235.8	Secondary
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420165800	0005	16.61	243.4	Secondary
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0009	17.86	247.6	Secondary (grouped)
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420165800	0006	27.48	247.0	Secondary
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420165800	0017	35.03	251.9	Secondary
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0008	35.80	250.7	Secondary (grouped)
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420165800	0007	42.80	248.5	Secondary
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0003	54.40	244.6	Secondary (grouped)
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0002	59.77	227.2	Secondary (grouped)
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420165800	0016	62.53	251.5	Secondary (grouped)

Hydrographer Recommendations

Uncharted pier

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)

Attributes: CATSLC - 5:promenadepier

Office Notes

Chart a pier and obtain updated shoreline photogrammetry.

Feature Images

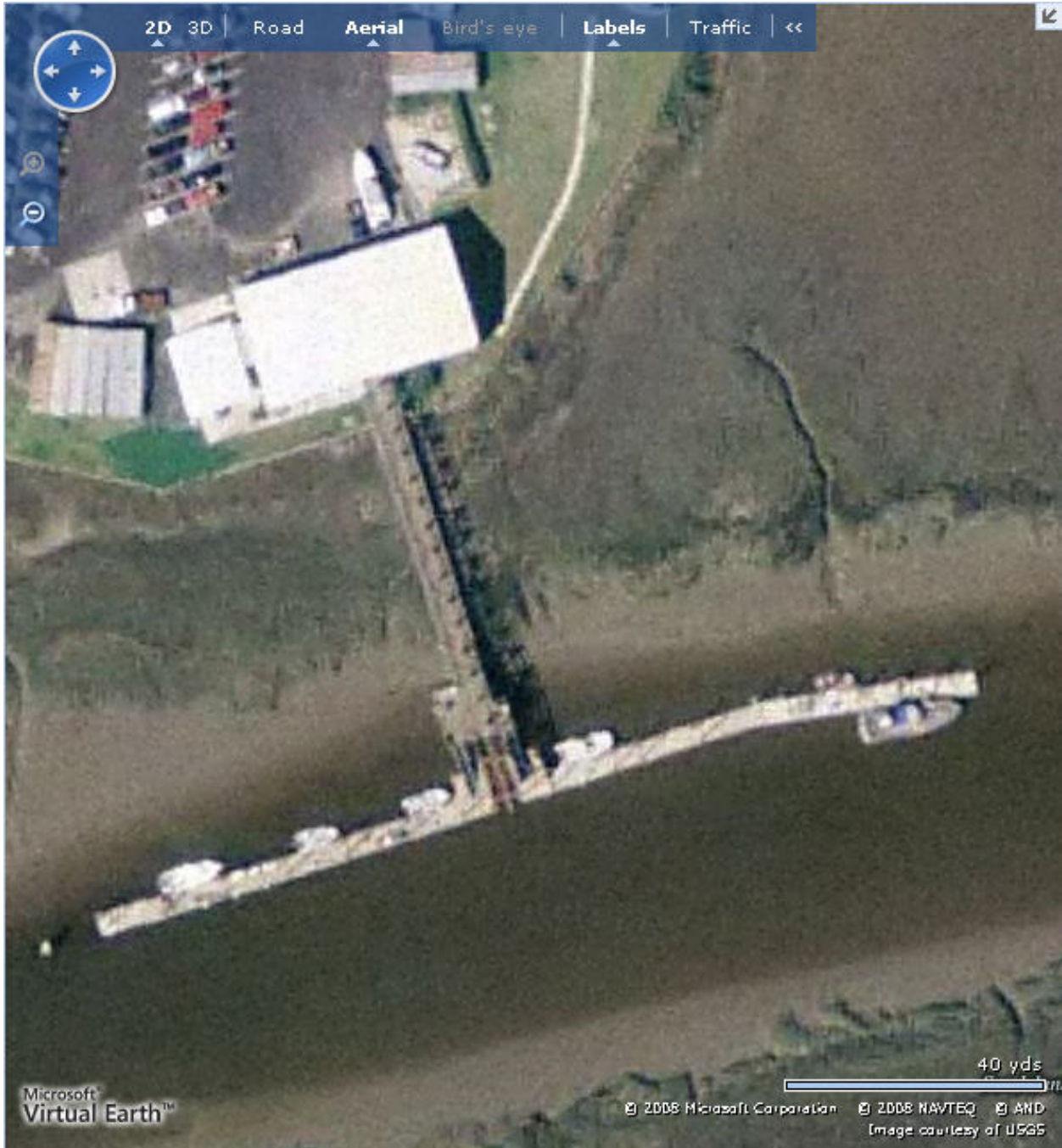


Figure 1.12.1

1.13) 0015 - uncharted pier NE end

Survey Summary

Survey Position: 31° 07' 22.3" N, 081° 28' 36.6" W
Least Depth: [None]
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2008-281.04:49:21 (10/07/2008)
Survey Line: h11417 / nrt2_1210_klein3000hf_100sss / 2006-110 / sss060420170500
Contact/Point: 0015/1
Charts Affected: 11489_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

Uncharted pier not noticed by field personnel, caught by office personnel during side scan review. Google Local Satellite Imagery and Microsoft Windows Live Local Satellite Imagery websites were referred to in order to confirm presence of the uncharted pier, images are included. NE end of pier observed from side scan imagery.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0015	0.00	000.0	Primary
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420165800	0009	1.63	061.9	Secondary
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0018	4.04	157.9	Secondary (grouped)
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0019	5.19	252.8	Secondary (grouped)
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420165800	0010	8.63	079.0	Secondary
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0014	13.99	076.8	Secondary (grouped)
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420165800	0011	14.41	077.5	Secondary
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420165800	0012	19.57	080.2	Secondary
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420165800	0013	25.45	079.6	Secondary
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0013	25.75	073.3	Secondary (grouped)
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0017	29.08	083.9	Secondary (grouped)
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0012	37.06	073.7	Secondary (grouped)
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420165800	0014	38.01	077.3	Secondary
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420165800	0015	45.34	074.3	Secondary
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0011	49.46	073.1	Secondary (grouped)
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0005	59.80	079.7	Secondary (grouped)
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0007	63.17	073.8	Secondary (grouped)

h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0004	67.39	095.6	Secondary (grouped)
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Hydrographer Recommendations

Uncharted pier

S-57 Data

Geo object 1: Shoreline Construction (SLCONS)

Attributes: CATSLC - 5:promenadepier

Office Notes

Chart a pier and obtain updated shoreline photogrammetry.

Feature Images



Figure 1.13.1

1.14) 0016 - subm pile - least depth unknown

Survey Summary

Survey Position: 31° 07' 22.3" N, 081° 28' 36.4" W
Least Depth: [None]
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2008-281.04:49:22 (10/07/2008)
Survey Line: h11417 / nrt2_1210_klein3000hf_100sss / 2006-110 / sss060420170500
Contact/Point: 0016/1
Charts Affected: 11489_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

Uncharted subm piling not noticed by field personnel, caught by office personnel during side scan review. Google Local Satellite Imagery and Microsoft Windows Live Local Satellite Imagery websites were referred to in order to confirm presence of the uncharted pier. Subm. pile at NE end of pier identified through side scan imagery.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420170500	0016	0.00	000.0	Primary
h11417/nrt2_1210_klein3000hf_100sss/2006-110/sss060420165800	0008	1.48	054.7	Secondary

Hydrographer Recommendations

Subm pile at NE end of uncharted pier

S-57 Data

Geo object 1: Obstruction (OBSTRN)
Attributes: CATOBS - 1:snag / stump
 QUASOU - 2:depth unknown
 TECSOU - 2:found by side scan sonar
 VERDAT - 12:Mean lower low water
 WATLEV - 3:always under water/submerged

Office Notes

Chart a Subm pile in Latitude 31-07-22.26N, Longitude 81-28-36.45W.

H11417 AWOIS Features Report - Offshore

Registry Number: Offshore Awois
State: Georiga
Locality: Atlantic Ocean
Sub-locality: Brunswick Approach
Project Number: OPR-G443-NRT2-05
Survey Date: 07/26/2006

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11506	43rd	02/01/2007	1:40,000 (11506_1)	USCG LNM: 04/01/2008 (04/08/2008) NGA NTM: 09/26/1998 (04/12/2008)
11504	16th	06/01/2005	1:40,000 (11504_1)	[L]NTM: ?
11502	31st	01/01/2007	1:80,000 (11502_1)	USCG LNM: 04/01/2008 (06/03/2008) NGA NTM: 11/03/2001 (06/07/2008)
11480	39th	09/01/2005	1:449,659 (11480_1)	[L]NTM: ?
11009	37th	07/01/2004	1:1,200,000 (11009_1)	[L]NTM: ?
411	50th	09/01/2005	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	1958/1 LD=40ft @ mllw Awois 12980	AWOIS	12.20 m	31° 02' 00.5" N	081° 12' 58.6" W	---
1.2	561/1 LD=39ft @ mllw Awois 481	AWOIS	12.14 m	31° 01' 17.5" N	081° 12' 30.0" W	---
1.3	805/1 LD=25ft @ mllw Awois 482	AWOIS	7.73 m	31° 03' 10.0" N	081° 13' 44.8" W	---
1.4	63/1 LD= 41ft @ mllw Awois 9885 subm wrk	AWOIS	12.52 m	31° 01' 01.5" N	081° 14' 28.1" W	---
1.5	946/1 LD=38ft @ mllw Awois 9890	AWOIS	11.54 m	31° 04' 07.3" N	081° 16' 36.0" W	---

1 - Offshore AWOIS Items

1.1) AWOIS #12980 - Awois # 12980 - Anti-DTON Report for Removal**DANGER TO NAVIGATION****Primary Survey Feature is Profile/Beam - 1958/1 from h11417 / nrt2_1210_sb / 2006-207 / 019_1524**

Search Position: 31° 01' 60.0" N, 081° 13' 00.0" W
Historical Depth: [None]
Search Radius: 250
Search Technique: S2,MB,ES,SD
Technique Notes: [None]

History Notes:

LNМ 34/98--8/25/98; ADD SUBM WRECK WITH A CLEARANCE OF 36 FT REPORTED WITH A POSITION OF 31/02/00.0N 081/13/00.0W. ENTERED CEH 2/05■■■OPR-G443-NRT2-05 26 July 2006 // 200% sss operation on DN:207 showed NO contacts of the charted Subm Wrk.■■■Recommend removal of the charted subm wrk, and the addition of the currently surveyed soundings. RWR

Survey Summary

Survey Position: 31° 02' 00.5" N, 081° 12' 58.6" W
Least Depth: 12.20 m (= 40.03 ft = 6.672 fm = 6 fm 4.03 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-207.15:26:08.106 (07/26/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-207 / 019_1524
Profile/Beam: 1958/1
Charts Affected: 11502_1, 11480_1, 11009_1, 411_1

Remarks:

200% sss operation on DN:207 showed NO contact of the reported feature.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-207/019_1524	1958/1	0.00	000.0	Primary
OPR-G443-BrunswickAwois	AWOIS # 12980	41.14	068.9	Secondary

Hydrographer Recommendations

Remove this charted subm wrk, and add surveyed sounding.

Cartographically-Rounded Depth (Affected Charts):

40ft (11502_1)

6 ½fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Sounding (SOUNDG)
Attributes: EXPSOU - 1:within the range of depth of the surrounding depth area
INFORM - Delete the charted Subm Wrk
OBJNAM - LD sounding of 40ft @ mllw
QUASOU - 1:depth known
TECSOU - 1:found by echo-sounder
VERDAT - 12:Mean lower low water

Office Notes

Concur. Feature has already been removed from the latest raster.

1.2) AWOIS #481 - Awois # 481 - LCT 415 - revise to 40 Wk

Primary Survey Feature is Profile/Beam - 561/1 from h11417 / nrt2_1210_sb / 2006-207 / 019_1410

Search Position: 31° 01' 17.6" N, 081° 12' 30.9" W
Historical Depth: 11.89 m
Search Radius: 70
Search Technique: ES,S2,MB,,DI,SD
Technique Notes: [None]

History Notes:

NM40/50(5835)--LCT 415 REPORTED SUNK IN LAT 31-01N, LONG 81-13W (NAD 27). H8216/54-55--WK NEITHER VERIFIED OR DISPROVED, PD RETAINED ON CHART. F00218WD/74--LCT 415, LARGE METAL WRECK (SUBM 33 FT AT MLLW), DIVER (GAUGE) LEAST DEPTH, CLEARED 30FT, PROTRUDES APPROX 13FT OFF BOTTOM. POSITION GIVEN IN LAT 31-01-17.3N, LONG 81-12-30.1W (NAD27). (REVISED 2/97 RWD) H10764/97--DANG WRECK SUBM 39FT AT MLLW, DIVERS FOUND A LARGE WRECK 100FT LONG BY 20FT WIDE. POSITION GIVEN IN LAT 31-01-17.64N, LONG 81-12-30.93W (UPDATED 9/98 RWD) OPR-G443-NRT2-05, 26 July 2006 (DN:207), 200 % sss conducted over this item confirmed the existence of the subm wrk. Awois 481 lies on a NW / SE axis. Wreck is 36x8 m. The LD=39ft @ mllw. Recommend retaining as charted. RWR

Survey Summary

Survey Position: 31° 01' 17.5" N, 081° 12' 30.0" W
Least Depth: 12.14 m (= 39.83 ft = 6.638 fm = 6 fm 3.83 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-207.14:11:31.047 (07/26/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-207 / 019_1410
Profile/Beam: 561/1
Charts Affected: 11502_1, 11480_1, 11009_1, 411_1

Remarks:

Awois 481 lies on a NW / SE axis. Wreck is 36x8 m. The LD=39ft @ mllw.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-207/019_1410	561/1	0.00	000.0	Primary
h11417/nrt2_1210_klein3000hf_200sss/2006-207/sss060726135900	0002	4.73	323.1	Secondary

h11417/nrt2_1210_klein3000hf_200sss/2006-207/sss060726140600	0001	14.95	088.7	Secondary
OPR-G443-BrunswickAwois	AWOIS # 481	24.42	099.6	Secondary
h11417/nrt2_1210_klein3000hf_200sss/2006-207/sss060726135900	0001	35.21	110.6	Secondary

Hydrographer Recommendations

Retain as charted.

Cartographically-Rounded Depth (Affected Charts):

40ft (11502_1)

6 ½fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Wreck (WRECKS)

Attributes: CATWRK - 1:non-dangerous wreck
 CONVIS - 2:not visual conspicuous
 INFORM - Awois 481
 OBJNAM - Subm Wrk
 TECSOU - 1,2:found by echo-sounder,found by side scan sonar
 VALSOU - 12.140 m
 VERDAT - 12:Mean lower low water
 WATLEV - 3:always under water/submerged

Office Notes

Concur. Revise the charted dang. 39 Wk to a dang. Wk with a depht of 40 ft. in Latitude 31-01-17.51N, Longitude 81-12-30.02W.

Feature Images

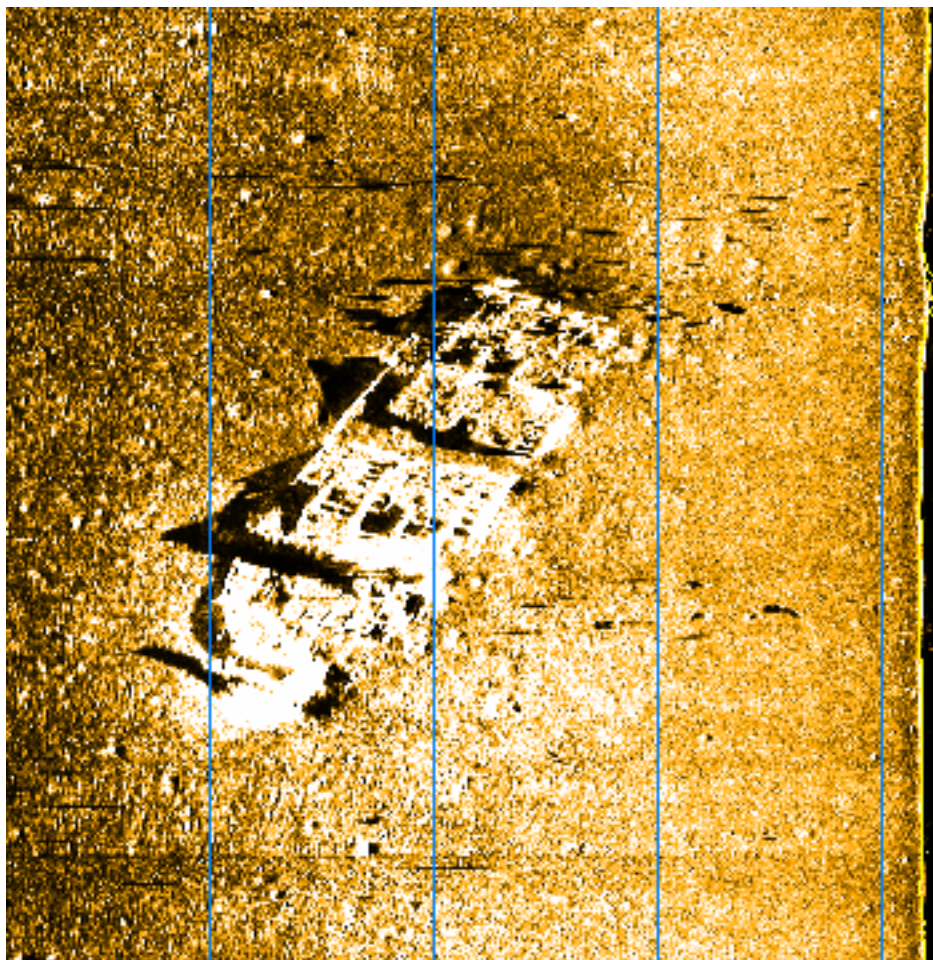


Figure 1.2.1

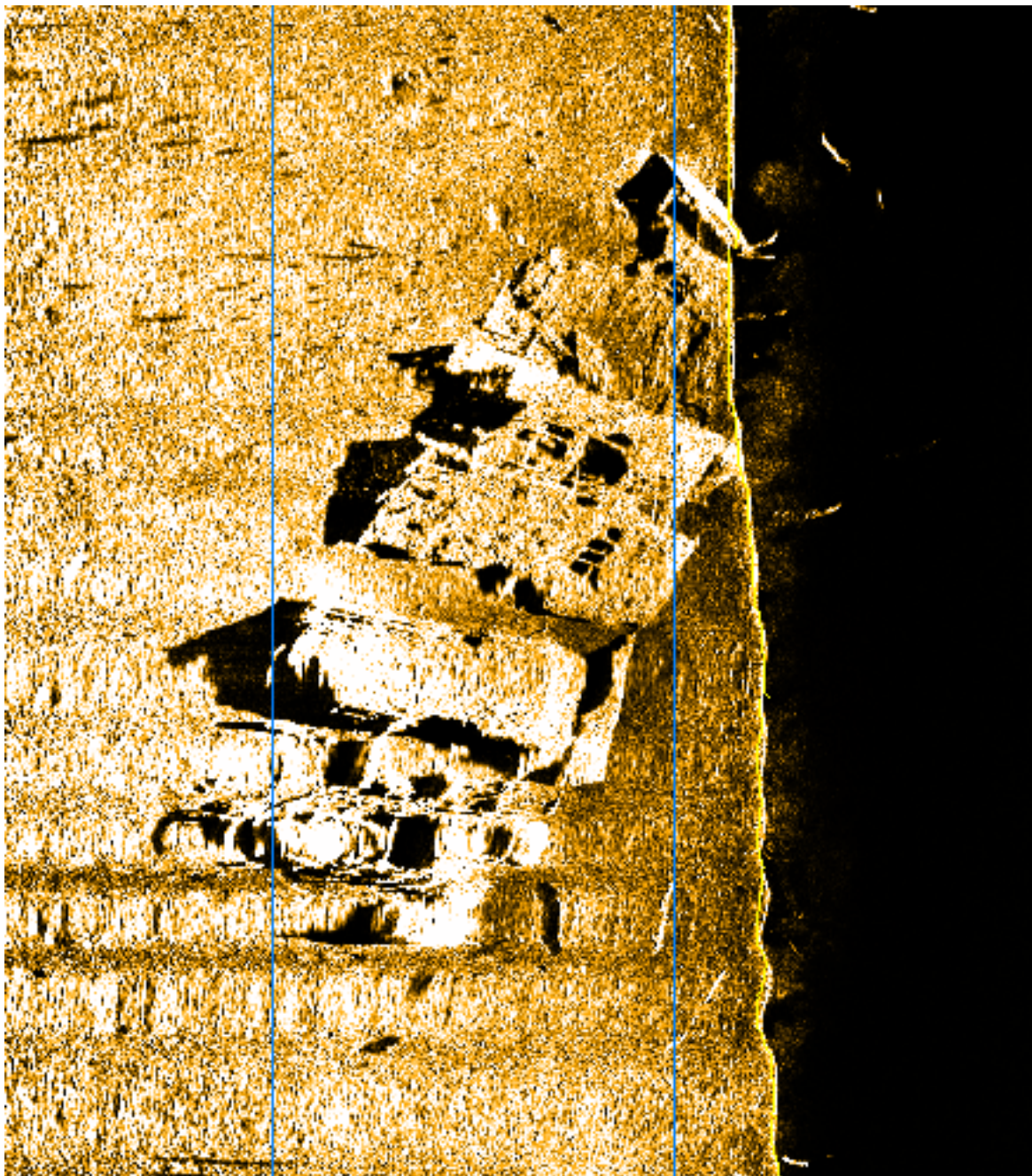


Figure 1.2.2

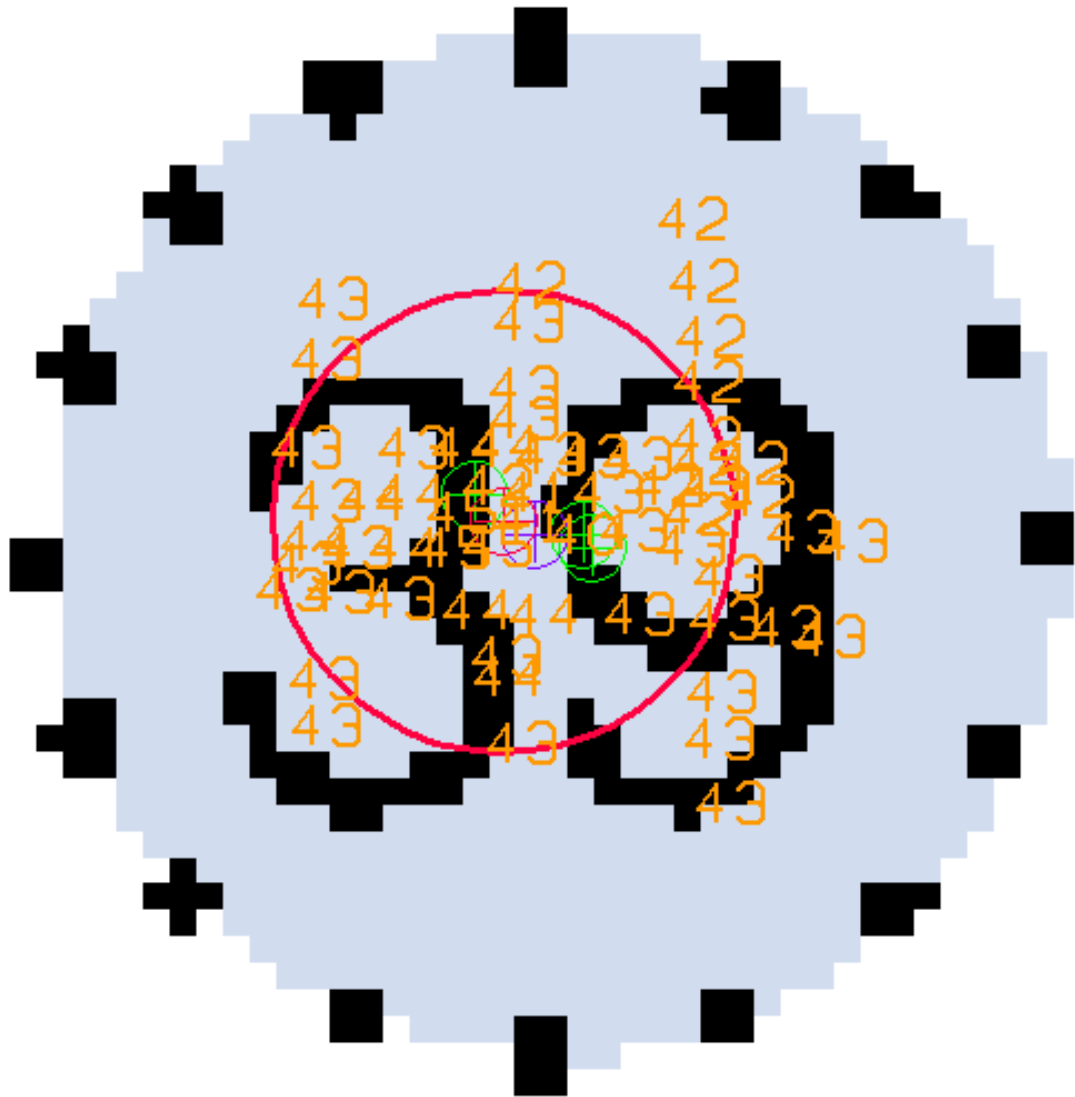


Figure 1.2.3

1.3) AWOIS #482 - Awois # 482 - MICHAEL - revise to 25 Wk

Primary Survey Feature is Profile/Beam - 805/1 from h11417 / nrt2_1210_sb / 2006-207 / 039_1707

Search Position: 31° 03' 10.1" N, 081° 13' 45.1" W
Historical Depth: 7.32 m
Search Radius: 70
Search Technique: [None]
Technique Notes: S2,MB,ES,DI,SD

History Notes:

NM37/64(4774)--LIGHTED BUOY WR2C ESTAB. TO MARK TUG MICHAEL, AT 31-03-06N, 81-13-48W 100 YDS NE IN 29 FT OF WATER W/14 FT LD, CARGO OF NITRO CARBON NITRATE, BOOSTERS, AND BLASTING CAPS. LNM16/66--BUOY DISCONTINUED AND PA NOTE REVISED TO PD SINCE WK SAID TO HAVE DISAPPEARED. CL1208/68--NOS RESPONSE TO TAUNTON INDICATED NO EVIDENCE OF WK REMOVAL BY PRIVATE CONTRACTOR AS REPORTED (CHARTED IN LAT 31-03-07N, LONG 81-13-45W); COE HAS NO PLANS FOR REMOVAL, COULD NOT LOCATE; BRUNSWICK PORT AUTHORITY COULD NOT CONFIRM REMOVAL; WESTERN GEOPHYSICAL, LITTON INDUSTRIES HAS NO RECORD OF REMOVAL. (REVISED 2/97 RWD) H10764/97--TUG MICHAEL, DANG WRECK SUBM 24FT AT MLLW. DIVERS FOUND TUG RESTING UPSIDE DOWN. POSITION GIVEN IN LAT 31-03-10.07N, LONG 81-13-45.14W. (UPDATED 9/98 RWD) DESCRIPTION**** TELECON SAVANNAH COE AND 7TH CG, PHIL JOHNSON, 12/14/81, PRODUCED NO NEW INFO., COE HAS NO RECORDS OF WRECK AT THIS POSITION. 01 TOW, 88 GT, 63.3 FT L, 19.3 FT W, 8.3 FT D, BUILT 1954 OWNER: MARTHA GARBER VIDOS, 1509 FRONT ST, MORGAN CITY, LA. OPR-G443-NRT2-05 25 July 2006 // 200% sss operation on DN:207 verified the existance of Awois482. This item is a subm wrk on a N/S axis, lying on its starboard side, bow north. Evidence of debris which may be the reported un-exploded explosives are evident in the vicinity. Recommend retain as charted. RWR

Survey Summary

Survey Position: 31° 03' 10.0" N, 081° 13' 44.8" W
Least Depth: 7.73 m (= 25.36 ft = 4.227 fm = 4 fm 1.36 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-207.17:08:07.835 (07/26/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-207 / 039_1707
Profile/Beam: 805/1
Charts Affected: 11502_1, 11480_1, 11009_1, 411_1

Remarks:

200% sss operation on DN:207 verified the existance of Awois482. This item is a subm wrk on a N/S axis, lying on its starboard side, bow north. Evidence of debris which may be the reported un-exploded explosives are evident

in the vicinity.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-207/039_1707	805/1	0.00	000.0	Primary
h11417/nrt2_1210_klein3000hf_200sss/2006-207/sss060726165800	0003	3.09	128.0	Secondary
OPR-G443-BrunswickAwois	AWOIS # 482	10.12	095.8	Secondary
h11417/nrt2_1210_klein3000hf_200sss/2006-207/sss060726165800	0002	12.92	000.3	Secondary
h11417/nrt2_1210_klein3000hf_200sss/2006-207/sss060726165800	0001	13.16	177.9	Secondary

Hydrographer Recommendations

Retain as charted.

Cartographically-Rounded Depth (Affected Charts):

25ft (11502_1)

4 ¼fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Wreck (WRECKS)

Attributes: CATWRK - 2:dangerous wreck

CONVIS - 2:not visual conspicuous

INFORM - Awois 482

OBJNAM - Tug Michael

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

VALSOU - 7.730 m

VERDAT - 12:Mean lower low water

WATLEV - 3:always under water/submerged

Office Notes

Concur. Revise the charted dang. 24 Wk to a dang. Wk with a depth of 25 ft. in Latitude 31-03-10.04N, Longitude 81-13-44.76W.

Feature Images

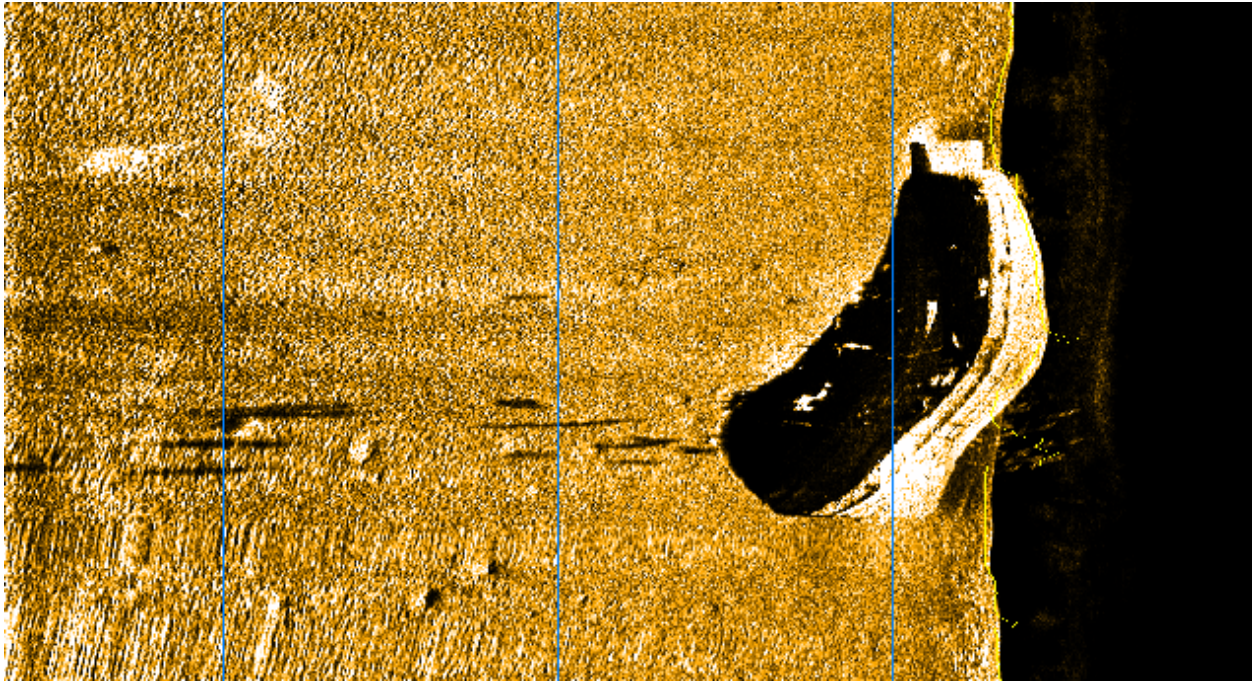


Figure 1.3.1

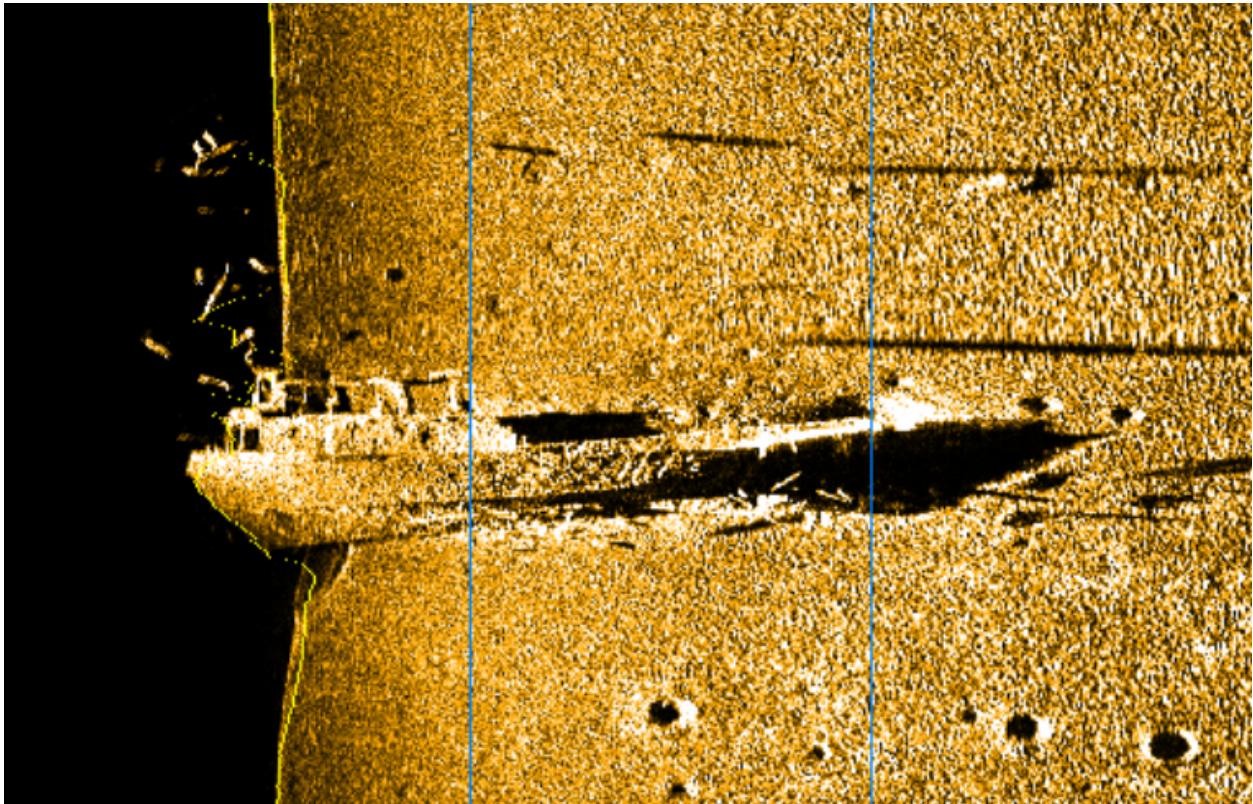


Figure 1.3.2

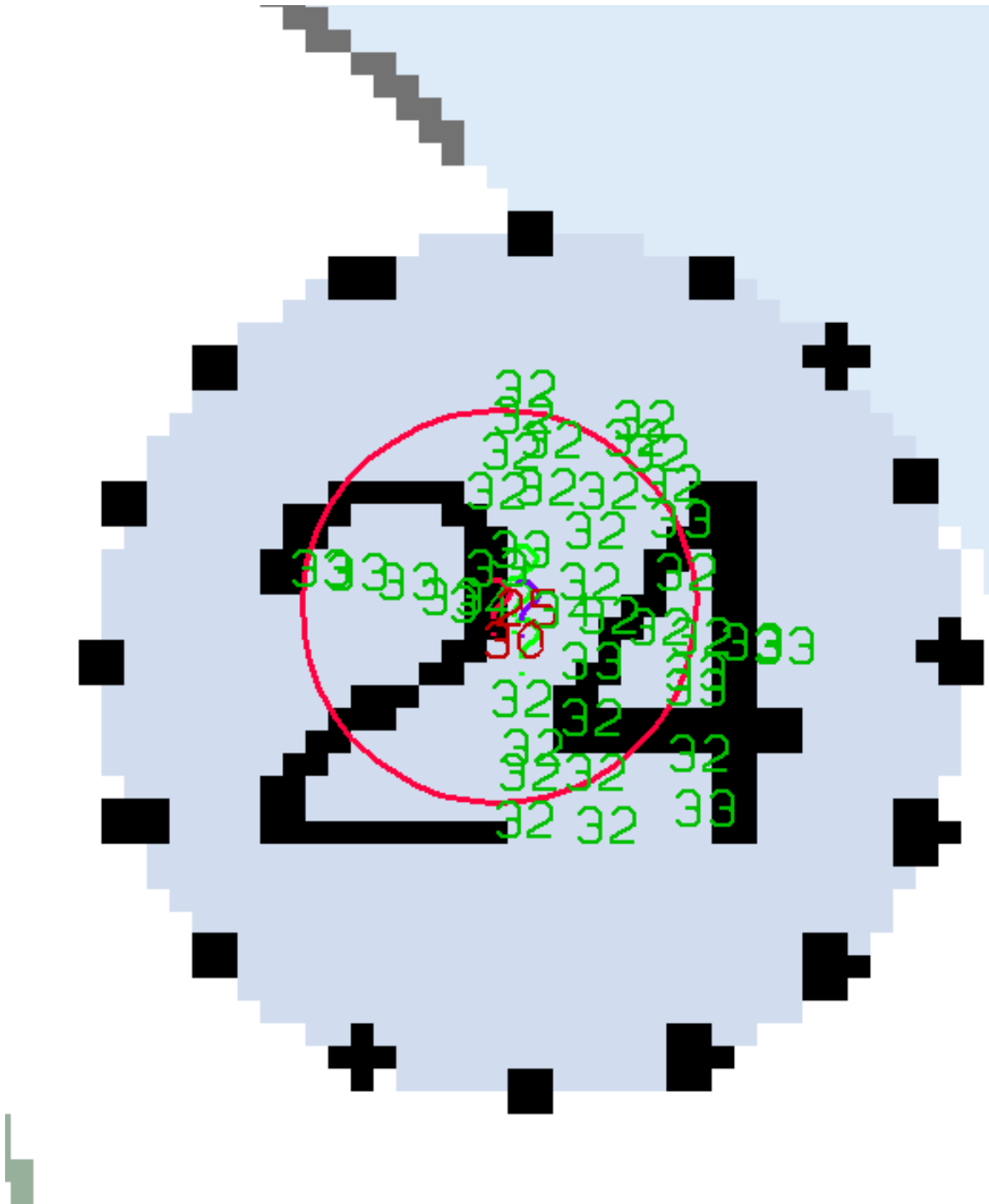


Figure 1.3.3

1.4) AWOIS #9885 - Awois # 9885 - UNKNOWN - revise to 41 Wk**Primary Survey Feature is Profile/Beam - 63/1 from h11417 / nrt2_1210_sb / 2006-207 / 049_1642**

Search Position: 31° 01' 01.7" N, 081° 14' 27.6" W
Historical Depth: 12.19 m
Search Radius: 70
Search Technique: [None]
Technique Notes: [None]

History Notes:

H9449/74--OPR-436; WRECK (SUBM 41 FT AT MLW), A 150 FT STEEL HULL LYING KEEL UP IN AN E-W DIRECTION WAS LOCATED, POSITION GIVEN IN LAT 31-01-07N, LONG 81-14-34W (NAD27). DIVERS FOUND THE WRECK LIES IN A DEPRESSION AND DOES NOT PROTRUDE ABOVE THE GENERAL LEVEL OF BOTTOM. LL DEPTHS ON THE BOW AND STERN WERE TAKEN. NO SUPERSTRUCTURE REMAINING. HULL BROKEN AMIDSHIPS W/BOW AND STERN ELEVATED. HULL HAS A ROUNDED BOTTOM, BOW/STERN TAPER TO A SHARP PERPENDICULAR, WITH SINGLE RUDDER AND SCREW. DIVERS THAT INVESTIGATED THE WRECK DID NOT THINK THE REMAINS WERE THOSE OF A LCT (REFER TO AWOIS ITEM 481; AND FE218/74WD). WRECK NOT APPLIED TO CHART 11502. (REVISED 2/97 RWD) ■ H10764/97--DANG WRECK SUBM 40FT AT MLLW, POSITION GIVEN IN LAT 31-01-01.65N, LONG 81-14-27.64W. WK IS IN E-W DIRECTION, AND SCOURS AT BOTH ENDS. WK IS METAL, DETERIORATING, AND IS RESTING UPSIDE DOWN. (UPDATED 9/98 RWD) ■■OPR-G443-NRT2-05, 26 July 2006 (DN:207), 200 % sss conducted over this item confirmed existence of subm wrk. ■Wreck poses no danger to navigation, and lies on a SW/NE axis. ■Awois 9885 LD point. SW end of wrk hull up. 41 x 6m on SW/NE axis. ■■Recommend Retaining charted subm wrk. RWR

Survey Summary

Survey Position: 31° 01' 01.5" N, 081° 14' 28.1" W
Least Depth: 12.52 m (= 41.07 ft = 6.844 fm = 6 fm 5.07 ft)
TPU (±1.96σ): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-207.16:42:12.881 (07/26/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-207 / 049_1642
Profile/Beam: 63/1
Charts Affected: 11502_1, 11480_1, 11009_1, 411_1

Remarks:

200 % sss conducted over this item confirmed existence of subm wrk. Wreck poses no danger to navigation, and lies on a SW/NE axis. Awois 9885 LD point. SW end of wrk hull up. 41 x 6m on SW/NE axis.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-207/049_1642	63/1	0.00	000.0	Primary
h11417/nrt2_1210_klein3000hf_200sss/2006-207/sss060726163200	0001	0.49	119.3	Secondary
OPR-G443-BrunswickAwois	AWOIS # 9885	11.77	254.0	Secondary
h11417/nrt2_1210_klein3000hf_200sss/2006-207/sss060726163200	0002	35.46	243.1	Secondary

Hydrographer Recommendations

Retain as charted.

Cartographically-Rounded Depth (Affected Charts):

41ft (11502_1)

6 ¾fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Wreck (WRECKS)

Attributes: CATWRK - 1:non-dangerous wreck
 CONVIS - 2:not visual conspicuous
 INFORM - Awois 9885
 OBJNAM - Subm Wrk Keel up on SW/NE axis
 TECSOU - 1,2:found by echo-sounder,found by side scan sonar
 VALSOU - 12.517 m
 VERDAT - 12:Mean lower low water
 WATLEV - 3:always under water/submerged

Office Notes

Concur. Revise the charted dang. 40 Wk to a dang. Wk with a depth of 41 ft. in Latitude 31-01-01.54N, Longitude 81-14-28.07W.

Feature Images

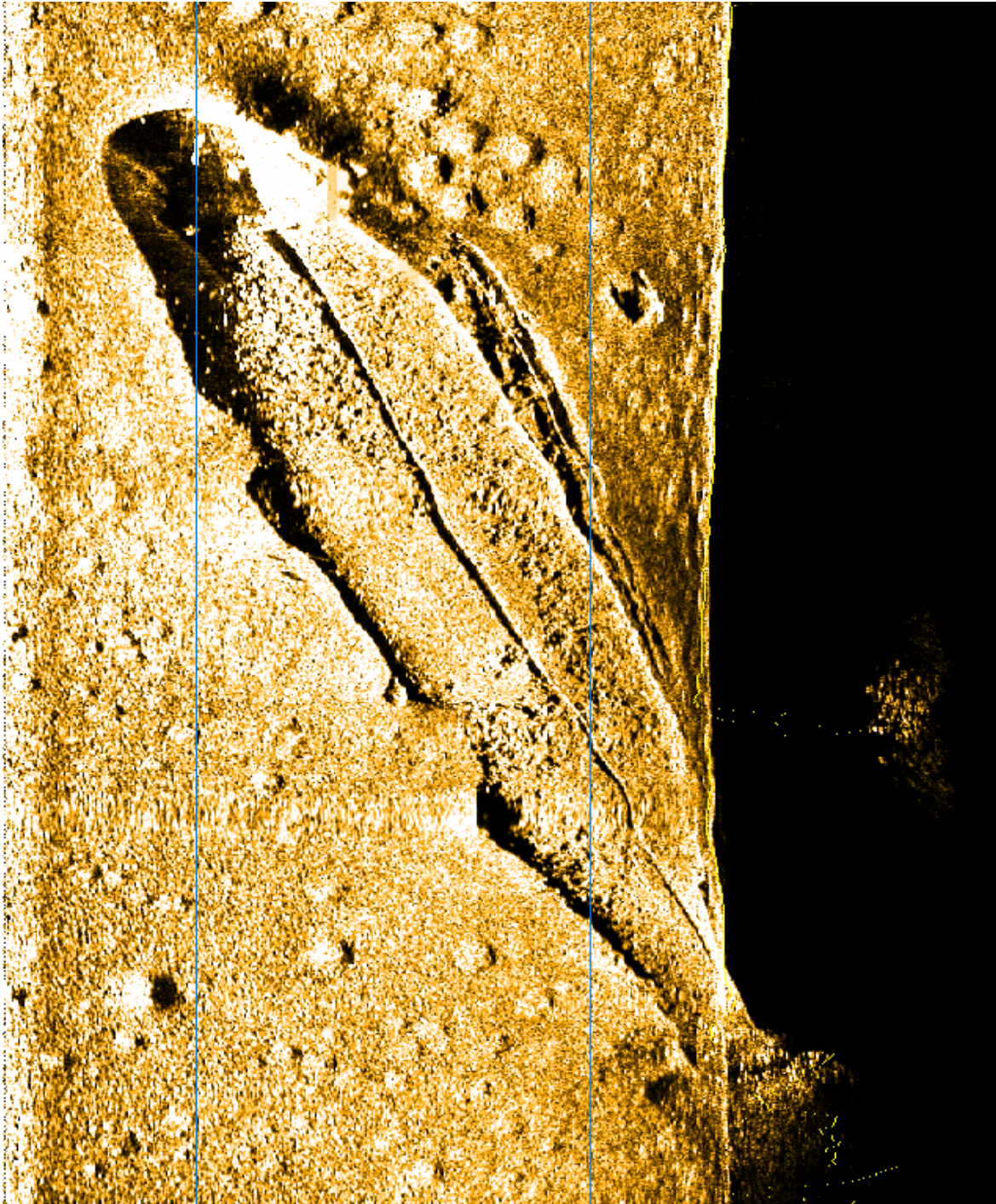


Figure 1.4.1

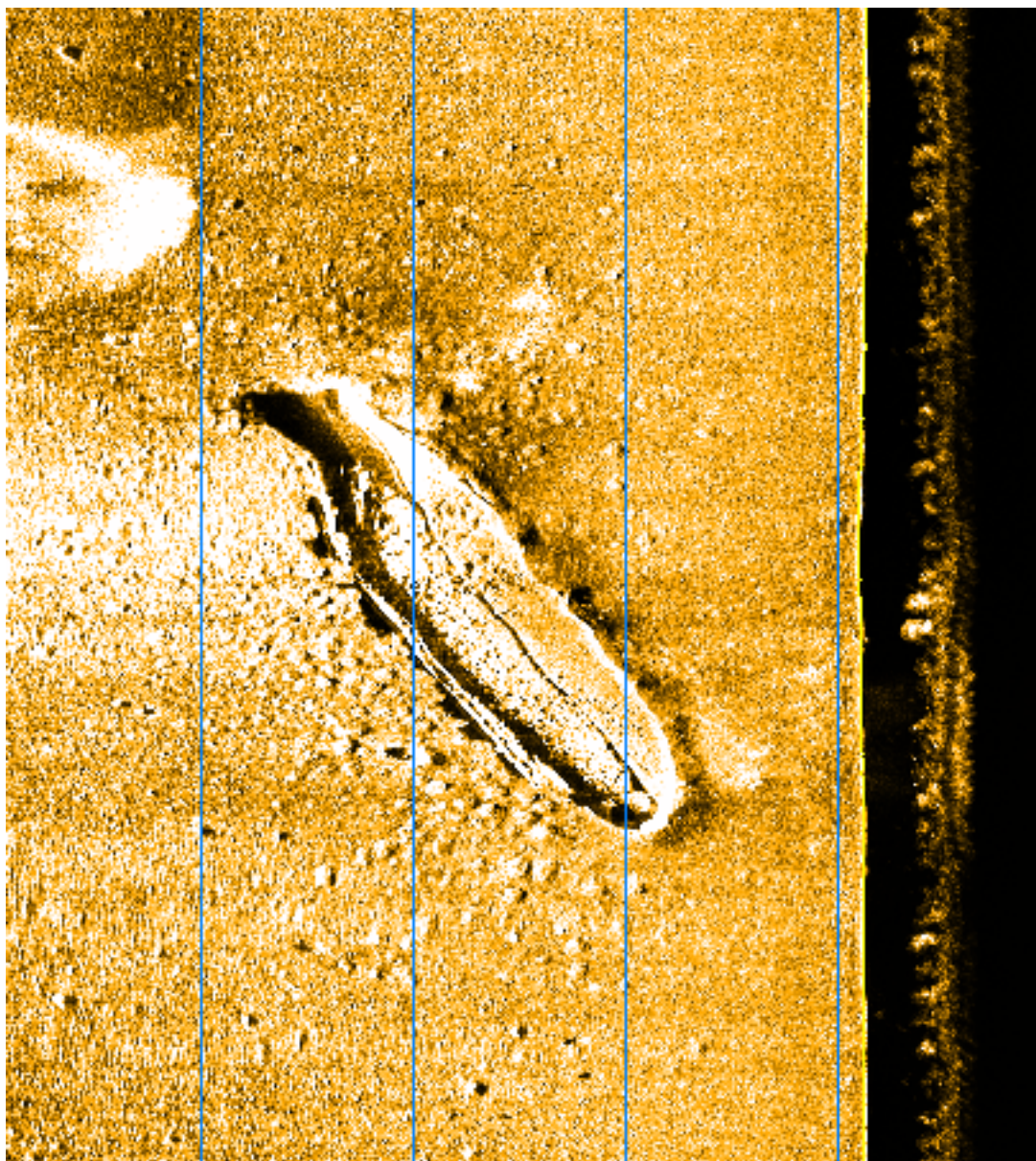


Figure 1.4.2

1.5) AWOIS #9890 - Awois # 9890 - OBSTRUCTION Anti-DTON Report

DANGER TO NAVIGATION

Primary Survey Feature is Profile/Beam - 946/1 from h11417 / nrt2_1210_sb / 2006-207 / 050_1756

Search Position: 31° 04' 06.6" N, 081° 16' 35.7" W
Historical Depth: 8.84 m
Search Radius: 70
Search Technique: [None]
Technique Notes: S2,MB,ES,DI,SD

History Notes:

H10764/97--DANG BUOY SUBM 29FT AT MLLW WAS LOCATED WITHIN THE MAINTAINED CHANNEL WITH A 32FT CONTROLLING DEPTH. POSITION GIVEN IN LAT 31-04-06.61N, LONG 81-16-35.73W. DIVERS FOUND THE SUNKEN NAVIGATION BUOY. CG NOTIFIED AND IS CURRENTLY SCHEDULING REMOVAL. ■ LNM38/98(9/98)--7TH CGD; SUNKEN BUOY REPORTED. (ENTERED 9/98 RWD) ■■OPR-G443-NRT2-05, 26 July 2006 (DN:207),400% sss was conducted over the reported feature with NO contacts found. This item was reported to the USCG, as per Awois report, for removal. The SSS work would support such removal took place. ■■Recommend removal from the charts. RWR

Survey Summary

Survey Position: 31° 04' 07.3" N, 081° 16' 36.0" W
Least Depth: 11.54 m (= 37.86 ft = 6.310 fm = 6 fm 1.86 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2006-207.17:57:28.039 (07/26/2006)
Survey Line: h11417 / nrt2_1210_sb / 2006-207 / 050_1756
Profile/Beam: 946/1
Charts Affected: 11504_1, 11506_1, 11502_1, 11480_1, 11009_1, 411_1

Remarks:

400% sss was conducted over the reported feature with NO contacts found. This item was reported to the USCG, as per Awois report, for removal. The SSS work would support such removal took place. Ainti-DTON was submitted 25 OCT 2006.

Feature Correlation

Address	Feature	Range	Azimuth	Status
h11417/nrt2_1210_sb/2006-207/050_1756	946/1	0.00	000.0	Primary
OPR-G443-BrunswickAwois	AWOIS # 9890	23.68	344.2	Secondary

Hydrographer Recommendations

Recommend removal of the charted obstn from the charts.

Cartographically-Rounded Depth (Affected Charts):

38ft (11504_1, 11506_1, 11502_1)

6 ¼fm (11480_1, 11009_1, 411_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes: INFORM - Awois 9890 found not to exist
 OBJNAM - Delete currently charted obstr 29ft
 QUASOU - 1:depth known
 TECSOU - 1,2:found by echo-sounder,found by side scan sonar
 VALSOU - 11.540 m
 VERDAT - 12:Mean lower low water
 WATLEV - 3:always under water/submerged

Geo object 2: Sounding (SOUNDG)

Attributes: EXPSOU - 1:within the range of depth of the surrounding depth area
 INFORM - General surveyed sounding in channel, Awois 9890
 OBJNAM - 38ft @ mllw
 QUASOU - 1:depth known
 TECSOU - 1:found by echo-sounder
 VERDAT - 12:Mean lower low water

Office Notes

Concur. Feature has already been removed from the latest raster.

Subject: Brunswick Channel questions
From: Michael Henderson NOAA Nav Mgr <Michael.Henderson@noaa.gov>
Date: Wed, 01 Oct 2008 11:27:46 -0400
To: "Durden, Ned E JR SAS" <Ned.E.Durden.JR@usace.army.mil>
CC: Chauveau Bryan NOS OCS <Bryan.Chauveau@noaa.gov>, Martin Ed NOS OCS
NSD CAB <Ed.Martin@noaa.gov>

Ned:

Our charting folks have 2 more Q's for you re: Brunswick Channel. Appreciate the assist on these. MEH

#1:

I am working on the companion survey, this one proceeds down the Channel into Brunswick, GA, and I noticed an area that shows a dredged channel discrepancy. This time it is in the Intracoastal Waterway, on chart 11506, entering into Jekyll Cr. next to Jekyll Island. My survey shows shoaling at the Intracoastal waterway channel entrance, which on the chart reads controlling depths are to be 12 feet.

** Was this area part of the recent USACE dredging that occurred in the Brunswick Channel?

#2:

Offshore in the Brunswick Harbor Bar Channel at Latitude 31°04'15.534"N, Longitude 81°16'57.362"W is a charted dang. 35 Obstn. According to my survey the NRT personnel mention this Obstn is slated for removal. Was this Obstn removed during the latest USACE dredging?

Durden, Ned E JR SAS wrote:

Here is my e-mail and my phone number is listed below.
Any concerns or questions you have about conditions in Brunswick Harbor and Savannah Harbor, please contact me.

Ned E. Durden, Jr.
OP-N (912) 652-5062
Hydrographic Surveys
Savannah District

Subject: Re: Brunswick Channel questions
From: Michael Henderson <Michael.Henderson@noaa.gov>
Date: Wed, 01 Oct 2008 13:40:11 -0400
To: "Durden, Ned E JR SAS" <Ned.E.Durden.JR@usace.army.mil>, Chauveau Bryan NOS OCS <Bryan.Chaudeau@noaa.gov>
CC: Martin Ed NOS OCS NSD CAB <Ed.Martin@noaa.gov>

Bryan:

See info below from Ned Durden, ACOE, SAV District. MEH

Durden, Ned E JR SAS wrote:

#1: the AIWW in the area you are talking about has not been dredged in over 5 years.

There is shoaling in the mouth at the North end.

#2: I do not see an obstruction on chart 11506 in that area. I see one near buoys 1 and 2 that says Obstn 29

Ned E. Durden, Jr.
OP-N (912) 652-5062
Hydrographic Surveys
Savannah District

-----Original Message-----

From: Michael Henderson NOAA Nav Mgr
[<mailto:Michael.Henderson@noaa.gov>]
Sent: Wednesday, October 01, 2008 11:28 AM
To: Durden, Ned E JR SAS
Cc: Chauveau Bryan NOS OCS; Martin Ed NOS OCS NSD CAB
Subject: Brunswick Channel questions
Importance: High

Ned:

Our charting folks have 2 more Q's for you re: Brunswick Channel. Appreciate the assist on these. MEH

#1:

I am working on the companion survey, this one proceeds down the Channel into Brunswick, GA, and I noticed an area that shows a dredged channel discrepancy. This time it is in the Intracoastal Waterway, on chart 11506, entering into Jekyll Cr. next to Jekyll Island. My survey shows shoaling at the Intracoastal waterway channel entrance, which on the chart reads controlling depths are to be 12 feet.

** Was this area part of the recent USACE dredging that occurred in the Brunswick Channel?

#2:

Offshore in the Brunswick Harbor Bar Channel at Latitude 31°04'15.534"N, Longitude 81°16'57.362"W is a charted dang. 35 Obstn. According to my survey the NRT personnel mention this Obstn is slated for removal. Was this Obstn removed during the latest USACE dredging?

Subject: RE: Brunswick Channel questions
From: "Durden, Ned E JR SAS" <Ned.E.Durden.JR@usace.army.mil>
Date: Thu, 02 Oct 2008 14:26:01 -0400
To: Bryan Chauveau <Bryan.Chauveau@noaa.gov>

I must have older charts because do not show this obstruction.
This obstruction has not been removed.
Our people dove on this object in Sept 2006. What they described was probably a buoy sinker.
Due to money constraints we have not dredged in this area of the Entrance Channel for 2 years.
I anticipate removal if our dredging contract allows us to dredge this area.

Ned E. Durden, Jr.
OP-N (912) 652-5062
Hydrographic Surveys
Savannah District

-----Original Message-----

From: Bryan Chauveau [<mailto:Bryan.Chauveau@noaa.gov>]
Sent: Wednesday, October 01, 2008 3:01 PM
To: Durden, Ned E JR SAS
Cc: Michael Henderson
Subject: Re: Brunswick Channel questions

(Trying again. -- Bryan)

Mr. Durden,

Bryan Chauveau here from the Atlantic Hydrographic Branch of NOAA working on the last survey from the Brunswick area.

Thank you for the info on the AIWW, I will note this in my report.

Per the 35 Obstn, I am looking at both charts 11502 and 11506, both show a 35 Obstn in this area. Please see the attached images. As you can see, the Navigation Response Team who surveyed this area did find something there. But their report states they were informed by the USACE that this Obstn was going to be removed during the next dredging operations.

The question is was this portion of the channel dredged during the last operations and was this 35 Obstn removed?

Bryan Chauveau
Physical Scientist
Atlantic Hydrographic Branch, NOAA



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

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE : November 6, 2006

HYDROGRAPHIC BRANCH: Atlantic
HYDROGRAPHIC PROJECT: OPR-G443-NRT2-2005/06
HYDROGRAPHIC SHEET: H11417

Brunswick Approach and East River Lower Reach to St.
LOCALITY: Simons Island, GA
TIME PERIOD: April 4 to September 26, 2006

TIDE STATION USED: 867-7344 St. Simons Island, GA
Lat. 31° 08.0' N Long. 081° 23.8' W
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 2.073 meters

TIDE STATION USED: 872-0030 Fernandina Beach, FL
Lat. 30 40.5' N Long. 081 27.9' W
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.892 meters

REMARKS: RECOMMENDED ZONING

Preliminary zoning is accepted as the final zoning for project
OPR-G443-NRT2-2005/06, H11417, during the time period between April 4 and September 26.

Please use the zoning file "G443NRT22005CORP" submitted with the project instructions
for Brunswick, GA. Zones GA100, GA101, GA102, GA103, GA103A, GA104, GA105, GA106,
GA113, SA183, SA185, SA186, & SA189 are the applicable zones for H11417.

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).

Fa [Signature]

CHIEF, PRODUCTS AND SERVICES DIVISION



**ATLANTIC HYDROGRAPHIC BRANCH
EVALUATION REPORT to Accompany
Survey H11417**

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 and review data at the Atlantic Hydrographic Branch (AHB):

CARIS HIPS/SIPS version 6.1
CARIS BASE Manager 2.1
PYDRO, version 8.6 (build r2366
Dkart Inspector V. 5.0 Build 732 (SP1)

B.2 QUALITY CONTROL

H-Cells

The AHB source depth grid was generated as a 2m resolution shoal biased BASE surface sourced from the single-beam data from survey H11417. Survey scale soundings were extracted from 2m shoal biased BASE Surface generated at a 1:10000 scale using a radius of 2.5m. Because the survey was conducted entirely by single-beam and side scan sonar, depth curves were created by hand. Soundings were selected for charting by hand using the latest raster charts (11506 and 11502) and depth contours used as background for sounding placement. Soundings were then checked for conflicts, corrected to remove conflicts, and edited to allow for proper sounding compilation placement with respect to existing charted depths outside the survey area.

The compilation products and Stand Alone HOB Files (SAHOB) are detailed in the Compilation Process Log of this document. All individual SAHOB files were assembled in BASE Editor during H-Cell compilation.

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 fathoms 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 H11417 CARIS H-Cell final deliverables include the following products:

H11417_CU.000	1:10,000 Scale	H11417 H-Cell with Chart Scale Selected Soundings
H11417_SS.000	1:10,000 Scale	H11417 Survey Scale Soundings
H11417_BlueNotes.000	1:10,000 Scale	H11417 Cartographic Notes

C. VERTICAL AND HORIZONTAL CONTROL

Final vertical correction processing was completed by office personnel after verification of the correct tidal zoning to use. Office personnel applied verified water levels in conjunction with the preliminary tidal zoning which was accepted and approved by N/OPSI CO-OPS as the final zoning for H11568. Sounding datum is Mean Lower Low Water (MLLW). Vertical datum is Mean High Water (MHW). Horizontal control used for this survey during data acquisition is based upon the North American Datum of 1983 (NAD83), UTM projection zone 17.

D. RESULTS AND RECOMMENDATIONS

D.1 Chart Comparison

11506 (43rd Edition, Feb./07)

Corrected through NM Feb. 17/07
Corrected through LNM Feb. 13/07
1:40,000 Scale

11502 (31st Edition, Jan./07)

Corrected through NM Jan. 27/07
Corrected through LNM Jan. 23/07
1:80,000 Scale

ENC Comparison

US5GA13M

St Simons Sound, Brunswick Harbor and Turtle River
Edition 12
Update Application Date 2008-04-17
Issue Date 2008-08-28
References: Charts 11506

ENC Comparison

US4GA11M

Doboy Sound to Fernandina

Edition 16

Update Application Date 2008-07-24

Issue Date 2008-07-24

References: Charts 11502

Hydrography

The charted hydrography originates with prior surveys and requires no further consideration. The hydrographer makes adequate chart comparisons in Section D. of the Descriptive Report.

Chart Discrepancies

There has been some erosion of the shoreline and alteration of the MHW limits along the MacKay River on the western side of Lanier Island, in the vicinity of Latitude 31° 09' 36.82" N, Longitude 81° 26' 03.18" W. It is recommended this area be surveyed to obtain updated shoreline and MHW limits.

Comparison with Prior Surveys

A comparison with prior surveys was not done during office processing in accordance with section 4. of the memorandum titled "Changes to Hydrographic Survey Processing", dated May 24, 1995.

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 survey requirements recommended by the hydrographer.

Bryan Chauveau

Bryan Chauveau
Physical Scientist
Verification of Data
Evaluation and Analysis Report

H11417 COMPILATION PROCESSING RECORD

Registry No.	H11417
Project No.	OPR-G443-NRT2-05
Field Unit	NOAA Launch 1210 (NRT2)
Compiler	Bryan Chauveau

11506 (43rd Edition, Feb./07)

Corrected through NM Feb. 17/07
 Corrected through LNM Feb. 13/07
 1:40,000 Scale

11502 (31st Edition, Jan./07)

Corrected through NM Jan. 27/07
 Corrected through LNM Jan. 23/07
 1:80,000 Scale

Largest Scale	<u>US5GA13M</u>
Chart	St Simons Sound, Brunswick Harbor and Turtle River Edition 12 Update Application Date 2008-04-17 Issue Date 2008-08-28 References: Charts 11506

US4GA11M

Doboy Sound to Fernandina
 Edition 16
 Update Application Date 2008-07-24
 Issue Date 2008-07-24
 References: Charts 115062

Survey Scale	1:10000
Date Of Survey	4-4 to 9-26-2006

Milestones	File Name
<i>Shoal-biased BASE Surface</i>	H11417_AHB_SB_2m_Extracted.hns
<i>Contour Layer</i>	H11417_Contours.hob
<i>Survey Scale Soundings</i>	H11417_SS_Soundings.hob
<i>Chart Scale Soundings</i>	H11417_CS_Soundings.hob
<i>Feature Layer</i>	H11417_Features.hob H11417_DepAre.hob
<i>Meta-objects Layer</i>	H11417_MCovr.hob H11417_MQual.hob
<i>Blue Notes</i>	H11417_BlueNotes.hob

META-OBJECTS:

M_COVR attributes

Acronym	Value
CATCOV	1 - coverage available
SORDAT	20060926
SORIND	US,US,survey,H11417

M_QUAL attributes

Acronym	Value
CATZOC	zone of confidence B
INFORM	H11417,OPR-G443-NRT2-05,NOAA Launch 1210 (NRT2)
TECSOU	Singlebeam
SURSTA	20060404
SUREND	20060926
POSACC	10
SORDAT	20060926
SORIND	US,US,survey,H11416

Final Grids Listing –

H11417_AHB_SB_2m_Extracted.hns
H11417_AHB_SB_2m_Extracted.xml
H11417_AHB_SB_2m_Extracted.bel

APPROVAL SHEET
H11417

The completed survey has been inspected with regard to survey coverage, delineation of depth curves, development of critical depths, cartographic symbolization, and verification or disapproval 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 NOS requirements except where noted in the Evaluation Report.

Bryan Chauveau
Physical Scientist,
Atlantic Hydrographic Branch

All final products have undergone a comprehensive review as per the Atlantic Hydrographic Branch Processing Manual and are verified to be accurate and complete except where noted in the Evaluation Report.

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

Approved: _____
Commander Shepard M. Smith, NOAA
Chief, Atlantic Hydrographic Branch