H12357

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Ocean Survey

DESCRIPTIVE REPORT

Type of Survey:	Basic Hydrographic Survey
Registry Number:	H12357

LOCALITY

State(s):	Florida
General Locality:	Panama City,FL
Sub-locality:	Approach and St Andrews Bay

2014

CHIEF OF PARTY
Mark McMann

LIBRARY & ARCHIVES

Date:

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	REGISTRY NUMBER:
HYDROGRAPHIC TITLE SHEET	**H12357**

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(s):	**Florida**
General Locality:	**Panama City,FL**
Sub-Locality:	**Approach and St Andrews Bay**
Scale:	**10000**
Dates of Survey:	**09/12/2011 to 01/06/2014**
Instructions Dated:	**05/22/2013**
Project Number:	**S-J910-NRT1-2011**
Field Unit:	**Navigation Response Team 1**
Chief of Party:	**Mark McMann**
Soundings by:	**Singlebeam Echo Sounder Multibeam Echo Sounder**
Imagery by:	**Side Scan Sonar**
Verification by:	**Pacific Hydrographic Branch**
Soundings Acquired in:	**meters at Mean Lower Low Water**

Remarks:

The purpose of this survey is to provide contemporary surveys to update National Ocean Service (NOS) nautical charts. All separates are filed with the hydrographic data. Notes in red were generated during office processing. The processing branch concurs with all information and recommendations in the DR unless otherwise noted. Page numbering may be interrupted or non-sequential. All pertinent records for this survey, including the Descriptive Report, are archived at the National Geophysical Data Center (NGDC) and can be retrieved via http://www.ngdc.noaa.gov/.

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Descriptive Report to Accompany Survey H12357

Project: S-J910-NRT1-2011

Locality: Panama City,FL

Sublocality: Approach and St Andrews Bay

Scale: 1:10000

September 2011 - January 2014

Navigation Response Team 1

Chief of Party: Mark McMann

A. Area Surveyed

Approach and St Andrews Bay, Panama City, FL

A.1 Survey Limits

Data were acquired within the following survey limits:

Northwest Limit	Southeast Limit
30° 18' 45" N 85° 52' 33" W	30° 3' 46" N 85° 44' 29" W

Table 1: Survey Limits

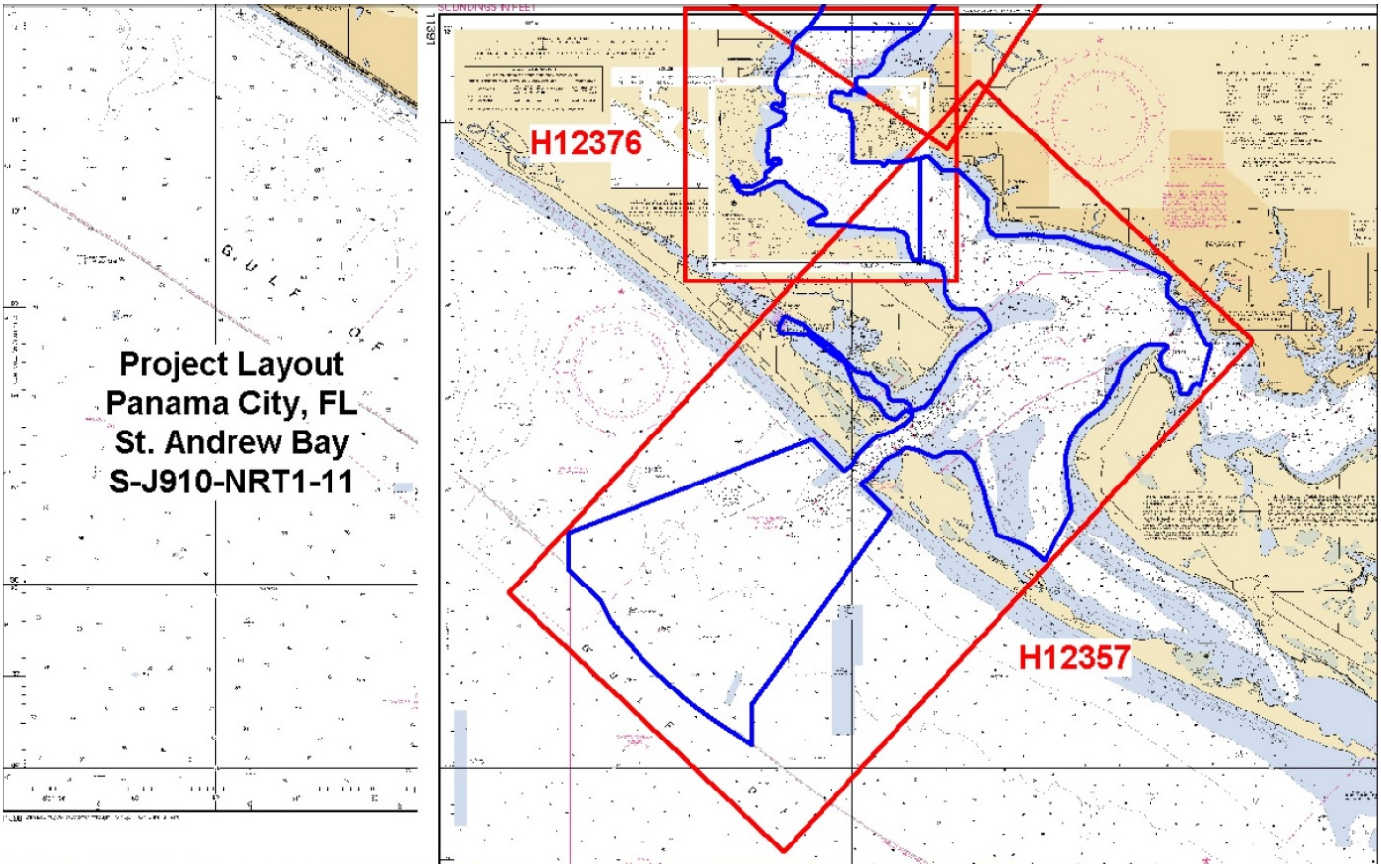


Figure 1: Survey Limits

Survey Limits were acquired in accordance with the requirements in the Project Instructions and the HSSD.

A.2 Survey Purpose

A request through the Regional Navigation Manager has requested a hydrographic survey in St. Andrews Bay and West Bay. There are reports of high spot in the Pass west of the channel and east of the western jetty. The approach to the Port and through St Andrews Pass needs validation of the charted depths. In Grand Lagoon, there is shoaling in the channel and changing channel course. Also, to survey and validate the charted depths and features in West Bay, West Bay Creek and the depths along the GIWW. Panama City is one of the MTS ports and an ENC Verification is needed. It is the intent of this survey to supersede all bathymetry, seafloor features, and bottom characteristics within the assigned survey area as defined by these instructions for updating of NOAA charts 11390 and 11391.

A.3 Survey Quality

The entire survey is adequate to supersede previous data.

This survey spanned over 3 calendar years due to changes in survey vessels and integrating new Side Scan Sonar equipment. This time lag in no way effects the quality of the data or it's suitability for charting.

A.4 Survey Coverage

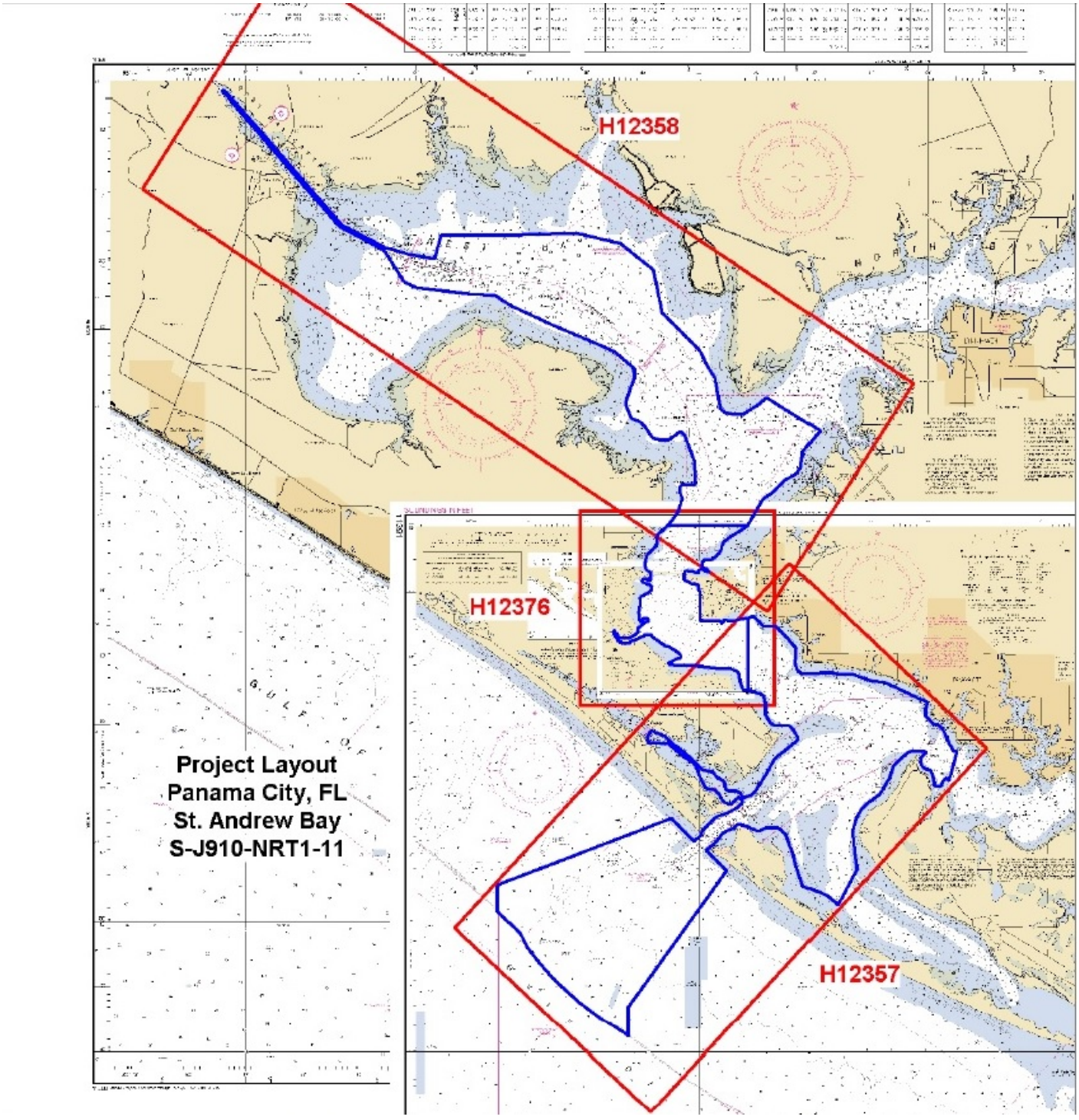


Figure 2: Survey Limit (general)

Survey Coverage was in accordance with the requirements in the Project Instructions and the HSSD.

A.5 Survey Statistics

The following table lists the mainscheme and crossline acquisition mileage for this survey:

	HULL ID	*3004*	*3001*	*Total*
LNM	**SBES Mainscheme**	0	4.2	4.2
	MBES Mainscheme	0	15	15
	Lidar Mainscheme	0	0	0
	SSS Mainscheme	0	0	0
	SBES/SSS Mainscheme	556.5	35.5	592
	MBES/SSS Mainscheme	0	0	0
	SBES/MBES Crosslines	27.7	0	27.7
	Lidar Crosslines	0	0	0
Number of Bottom Samples				16
Number of AWOIS Items Investigated				20
Number Maritime Boundary Points Investigated				0
Number of DPs				0
Number of Items Investigated by Dive Ops				0
Total SNM				13

Table 2: Hydrographic Survey Statistics

The following table lists the specific dates of data acquisition for this survey:

Survey Dates	Day of the Year
09/12/2011	255
09/13/2011	256
09/15/2011	258
09/21/2011	264
09/22/2011	265
09/28/2011	271
09/29/2011	272
10/04/2011	277
10/05/2011	278
10/06/2011	279
11/01/2011	305
11/02/2011	306
11/03/2011	307
11/09/2011	313
05/23/2012	144
06/11/2012	163
06/20/2012	172
06/27/2012	179
06/28/2012	180
07/10/2012	192
07/11/2012	193
09/27/2012	271
10/03/2012	277
10/04/2012	278
10/09/2012	283
10/10/2012	284
10/24/2012	298
10/25/2012	299
11/01/2012	306
11/05/2012	310
11/20/2012	325
11/27/2012	332
01/23/2013	23
06/26/2013	177
07/10/2013	191

Percent of XL equals 10.3% of 1/2 of total 200% MS mileage

The Vessel LNM values for 3001 should read as follows: Mainscheme SBES [39.7 LNM]; Mainscheme MBES [15.0 LNM]; Mainscheme SSS [39.3 LNM]. The Vessel LNM values for 3004 should read as follows: Mainscheme SBES [589.8 LNM]; Mainscheme SSS [556.5 LNM]; MBES/SBES Crosslines [27.7 LNM]. The Total LNM values for H12357 should read as follows: Mainscheme SBES [629.5 LNM]; Mainscheme MBES MS [15.0]; Mainscheme SSS [595.8 LNM]; MBES/SBES Crosslines [27.7 LNM]; Percent of XLs to [MS 4.30%].

B. Data Acquisition and Processing

B.1 Equipment and Vessels

Refer to the Data Acquisition and Processing Report (DAPR) for a complete description of data acquisition and processing systems, survey vessels, quality control procedures and data processing methods. Additional information to supplement sounding and survey data, and any deviations from the DAPR are discussed in the following sections.

B.1.1 Vessels

The following vessels were used for data acquisition during this survey:

Hull ID	***S3004***	***S3001***
LOA	9.15 meters	9.15 meters
Draft	0.5 meters	0.5 meters

Table 4: Vessels Used

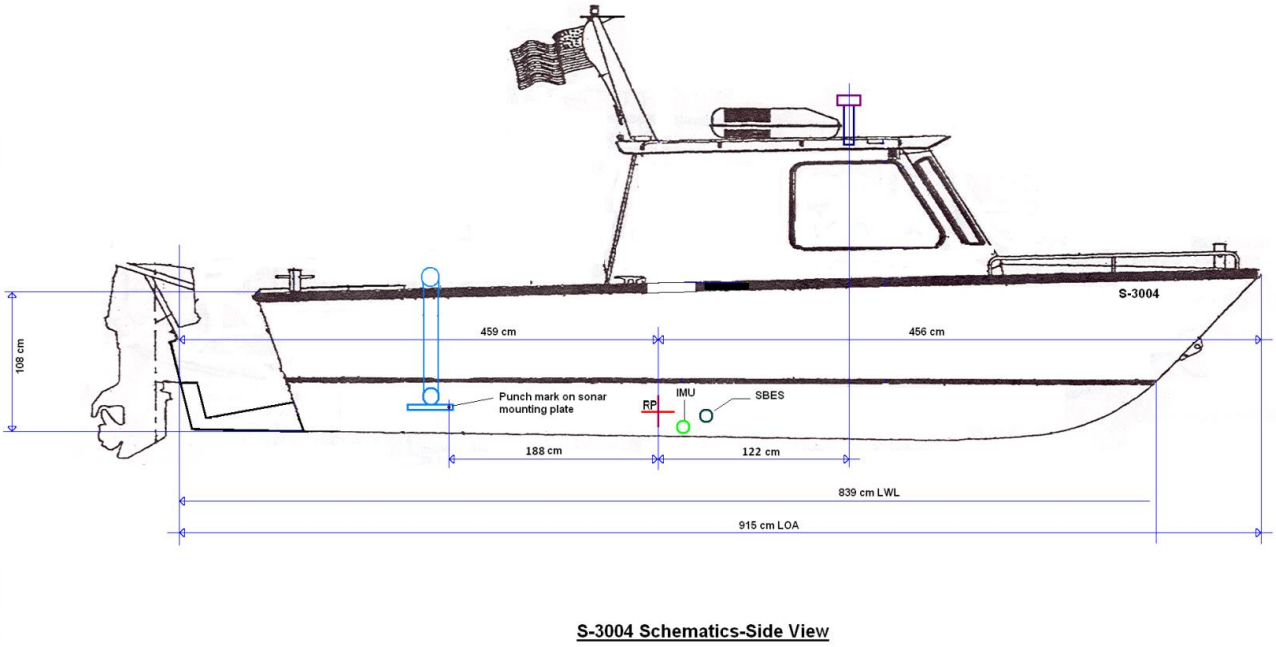


Figure 3: Survey Vessel S3004 Schematics

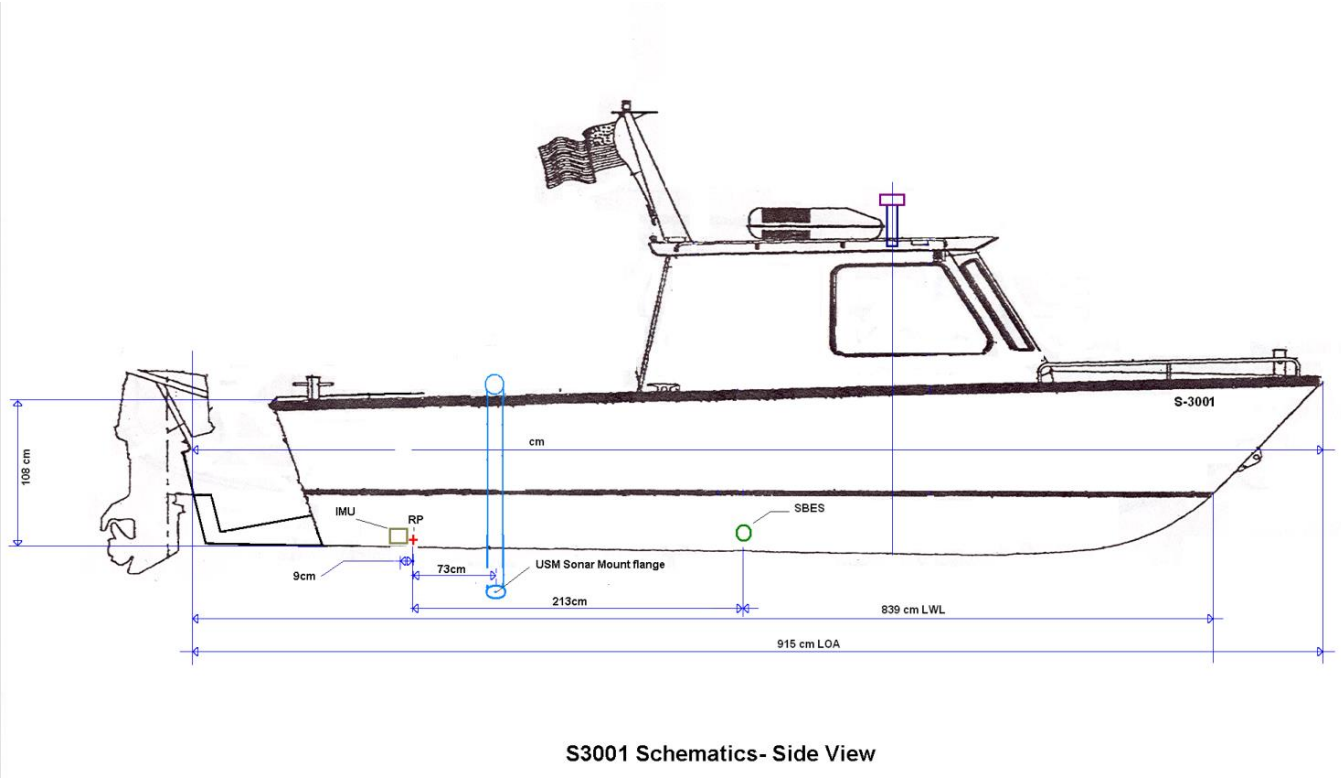


Figure 4: Survey Vessel S3001 Schematics

B.1.2 Equipment

The following major systems were used for data acquisition during this survey:

Manufacturer	Model	Type
Odom	CV200	SBES
Reson	8125	MBES
Klein	5000	SSS
Edgetech	4125	SSS
Trimble Applanix	POS MV 4	Positioning and Attitude System
Trimble Applanix	POS MV 5	Positioning and Attitude System
SBE	SB19	Conductivity, Temperature, and Depth Sensor
Odom	Digibar	Sound Speed System

Table 5: Major Systems Used

B.2 Quality Control

B.2.1 Crosslines

Crosslines acquired for this survey totaled 5% of mainscheme acquisition.

X-lines equal 10.31% of 1/2 mainscheme mileage. Pydro generated crossline comparison report states a 99.8% IHO special order agreement and 0.2% IHO order1 agreement.

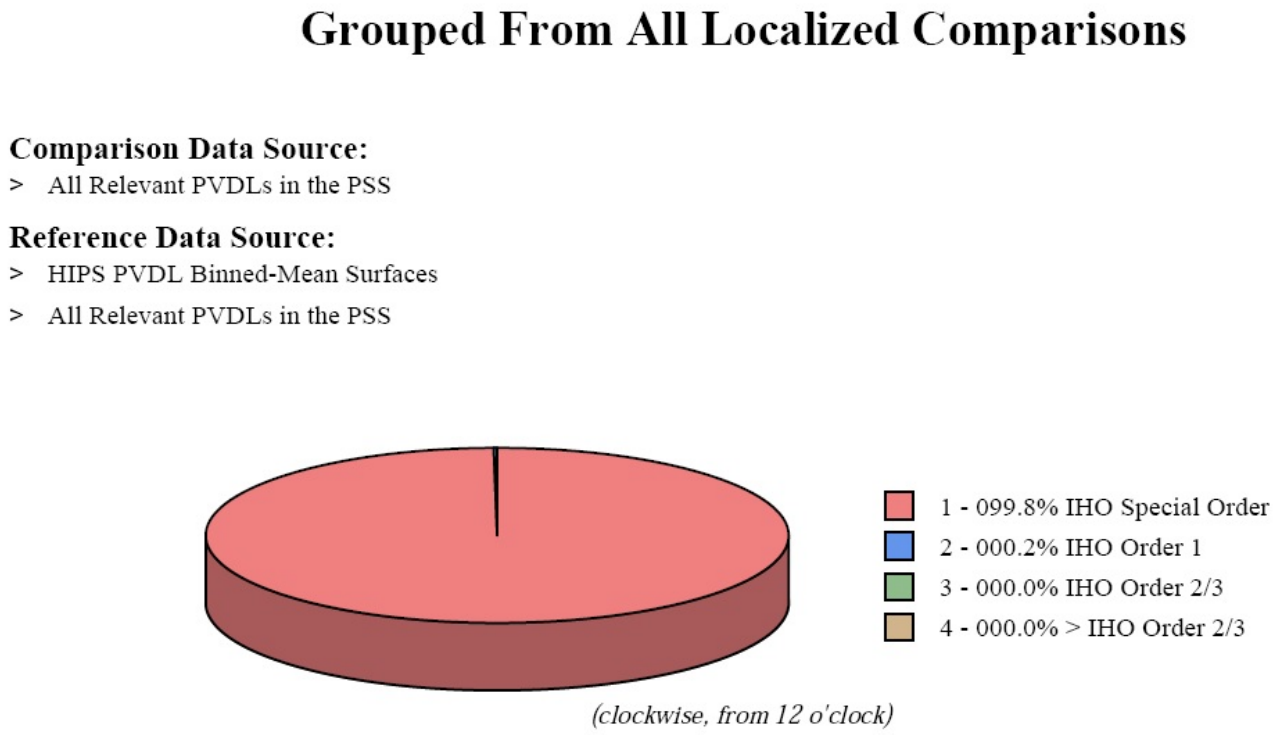


Figure 5: Pydro Crossline Comparison General Agreement

Crosslines mileage totaled 4.3% of mainscheme mileage.

B.2.2 Uncertainty

Uncertainty values returned from MBES surface were generally excellent with the great majority of points. 176248 points out of 2356498 total points are above 50cm of uncertainty (7.4%). These areas were analyzed and found to be MBES swath outer edges points and were not an hindrance to overall survey data quality.

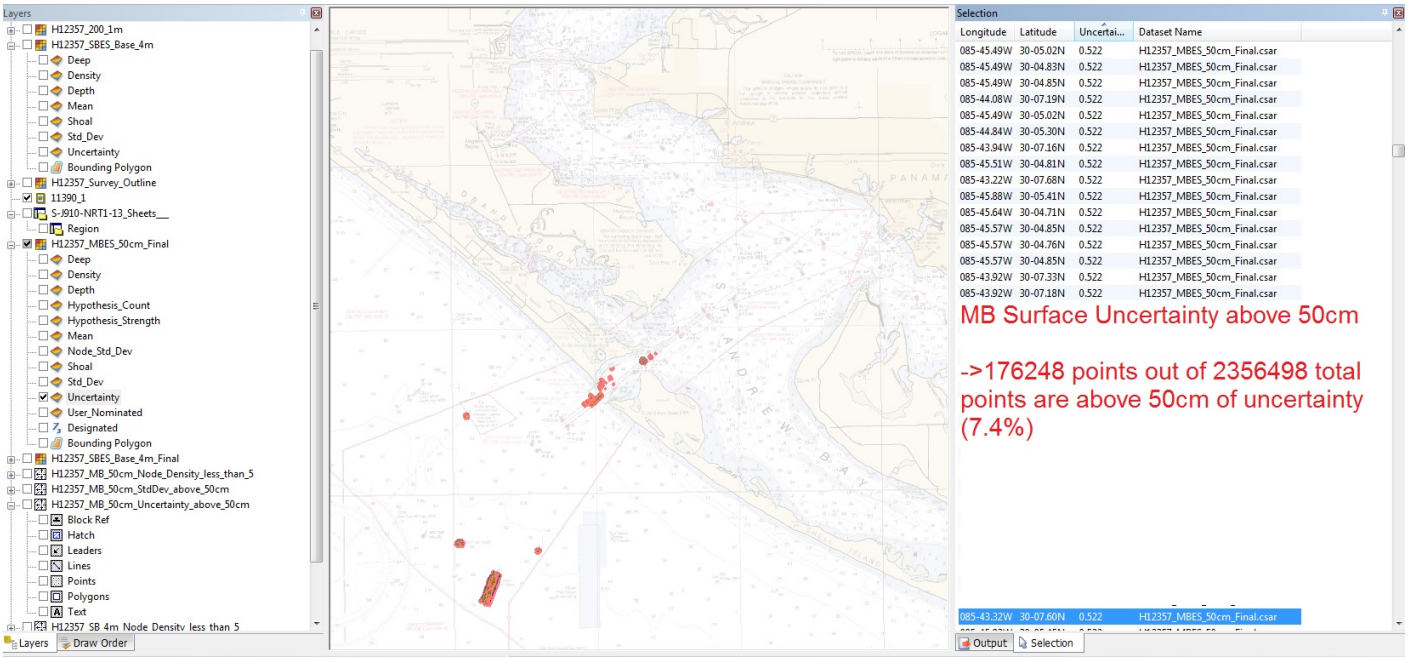


Figure 6: Areas with Uncertainty values greater than 50cm

B.2.3 Junctions

No contemporary junction surveys available.

There are no contemporary surveys that junction with this survey.

Survey H12357 junctions with 2012 survey H12376.

B.2.4 Sonar QC Checks

Sonar system quality control checks were conducted as detailed in the quality control section of the DAPR.

B.2.5 Equipment Effectiveness

POSmv4/IMU failure on two days of acquisition.

We experienced a POSmv4/IMU failure on days 2013_177 and 2013_191. Direct DGPS input was used on these two calm days during data acquisition. Data quality remained good during these days.

B.2.6 Factors Affecting Soundings

There were no other factors that affected corrections to soundings.

B.2.7 Sound Speed Methods

Sound Speed Cast Frequency: Daily CTD casts for mainscheme survey, every 4 hours maximum during MBES investigations

B.2.8 Coverage Equipment and Methods

All equipment and survey methods were used as detailed in the DAPR.

B.2.9 MBES surface Node Density

MBES surface Node Density was controlled during data processing. The great majority of nodes showed a node density of or above 5. 365256 points out of 2356540 total points showed a density under 5 (15.4%). These areas were analyzed and found to be MBES swath outer edges points and were not an hindrance to overall survey data quality.

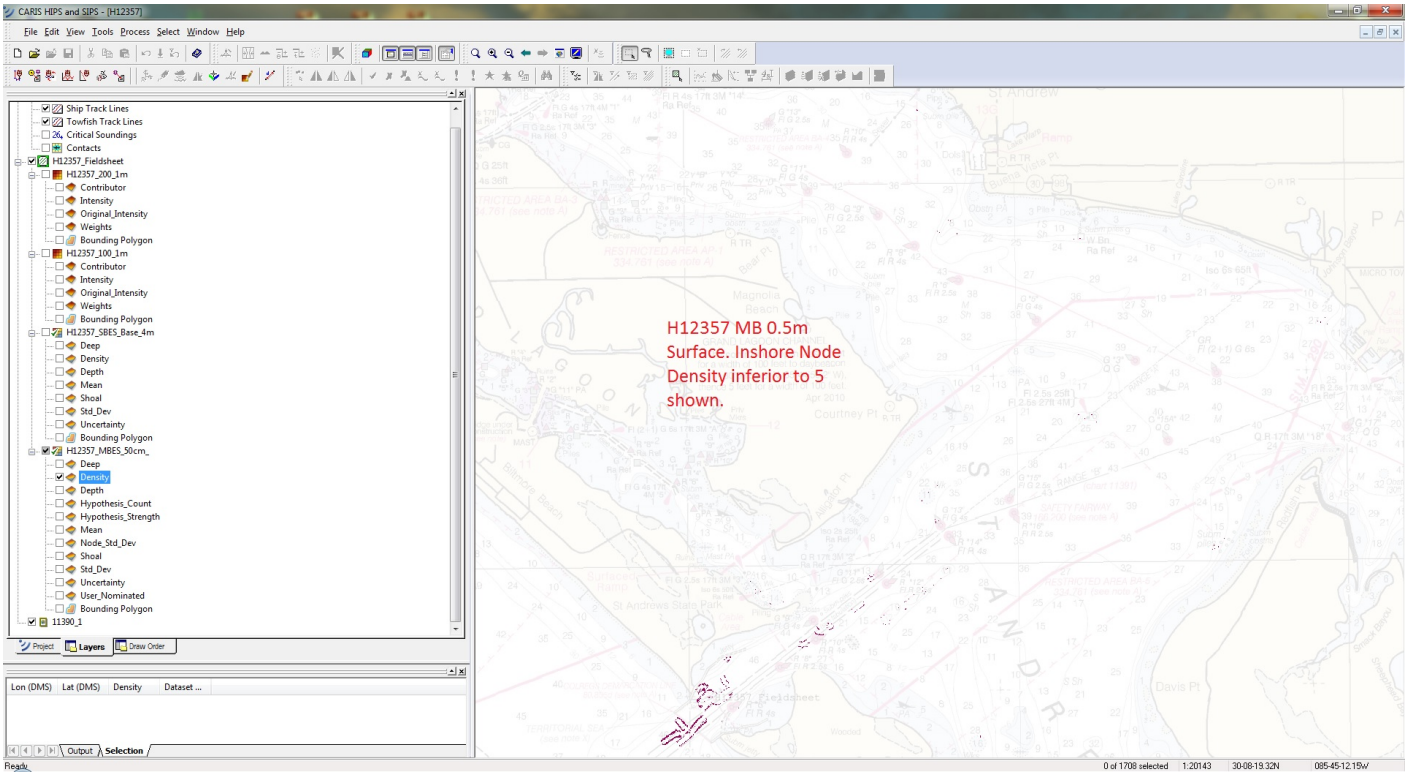


Figure 7: MB Surface Node Density under 5, Inshore area

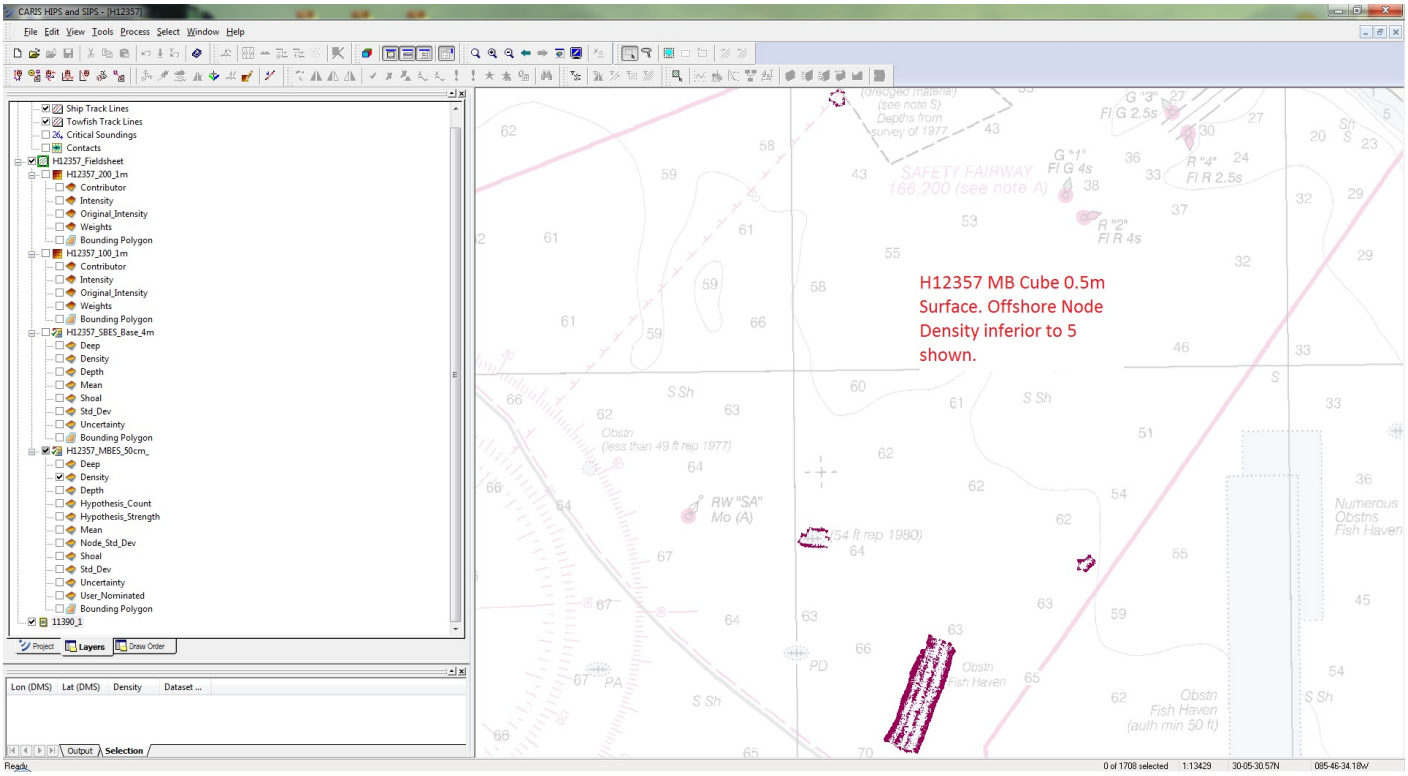


Figure 8: MB Surface Node Density under 5, Offshore area

B.2.10 SBES surface Node Density

SBES surface Node Density was controlled during data processing. The great majority of nodes showed a node density of or above 5. 4451 points out of 556589 total points showed a density under 5 (0.79%). These points were analyzed and found to be sparce, evenly distributed and not an hindrance to overall survey data quality.

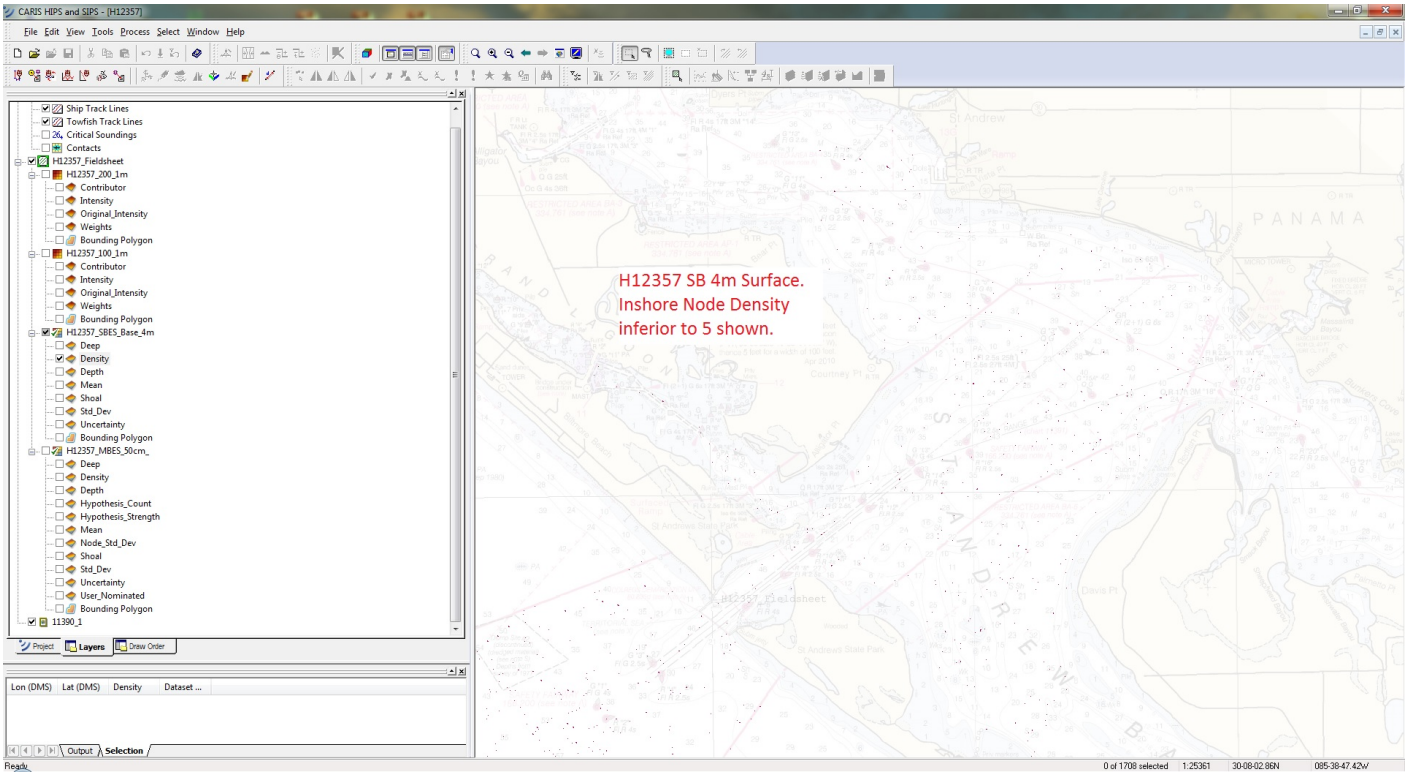


Figure 9: SB Surface Node Density under 5, Inshore area

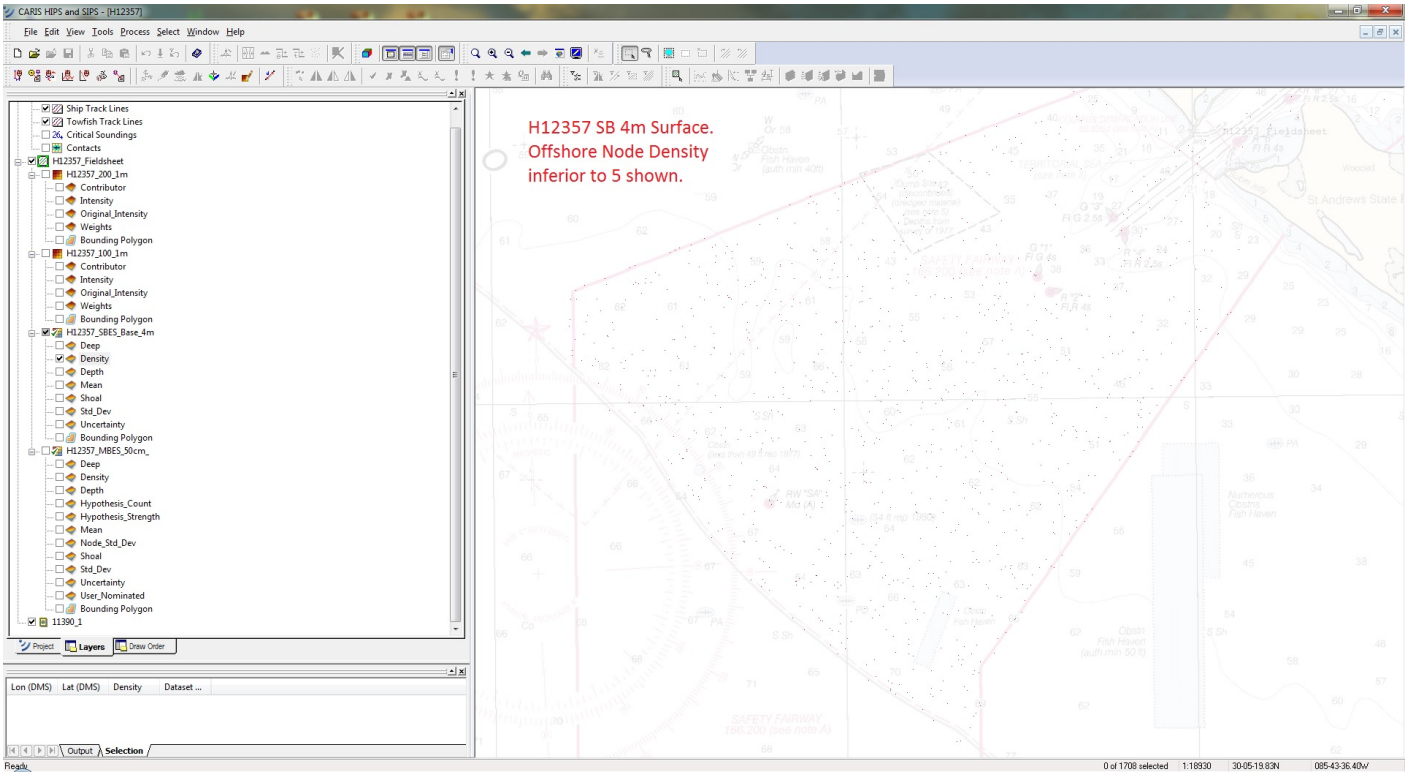


Figure 10: SB Surface Node Density under 5, Offshore area

B.2.11 MBES surface Node Hypothesis Count

MBES surface Node Hypothesis Count was controlled during data processing. The great majority of nodes showed an Hypothesis Count under 2. 12 points out of 2356498 total points showed an Hypothesis count above 2 (0.0005%). These points were analyzed and deemed not an hindrance to overall survey data quality.

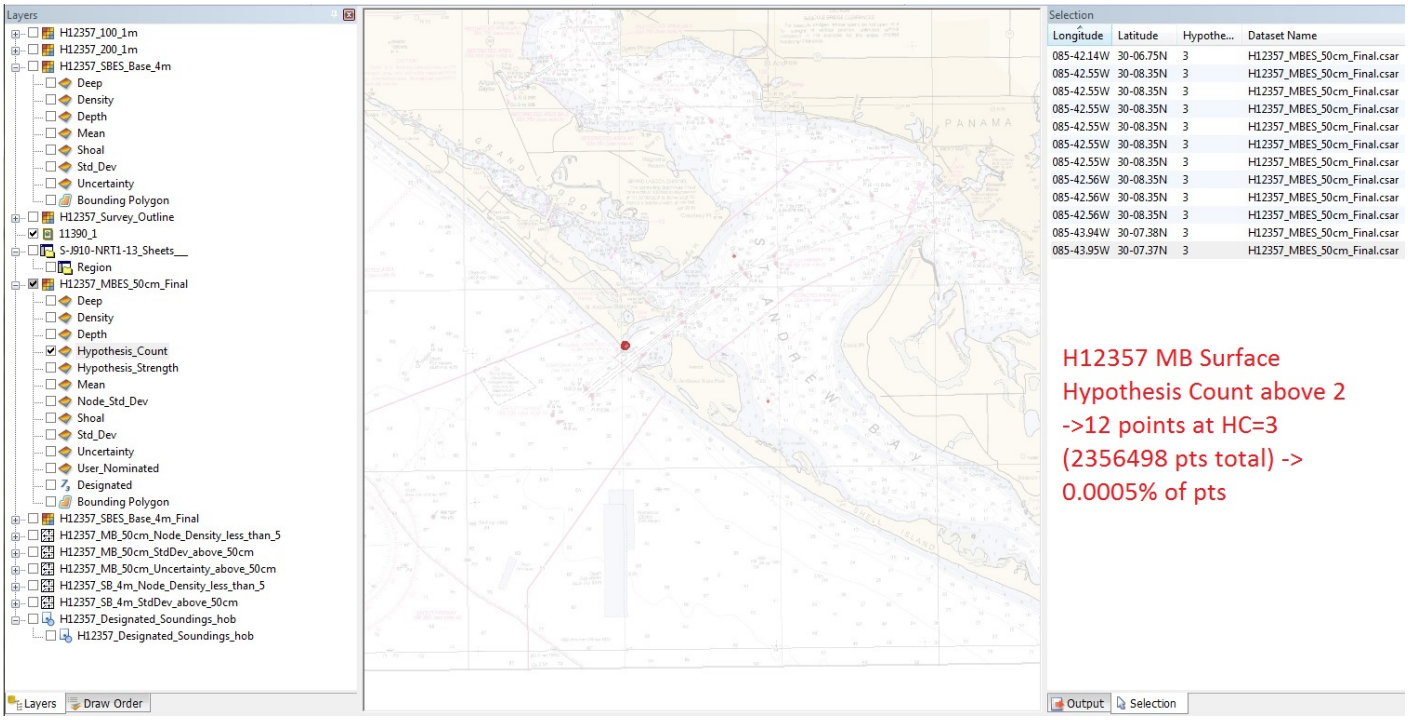


Figure 11: MB Surface Hypothesis Count above 2

B.2.12 MBES surface Node Hypothesis Strength

MBES surface Node Hypothesis Strength was controlled during data processing. The great majority of nodes showed an Hypothesis Strength of 0. 306 points out of 2356498 total points showed an HypothesisStrength above 0.01 (0.012%). These points were analyzed and found to be located in areas of sudden depth changes (e.g contacts edges, seawalls, etc...)and deemed not an hindrance to overall survey data quality.

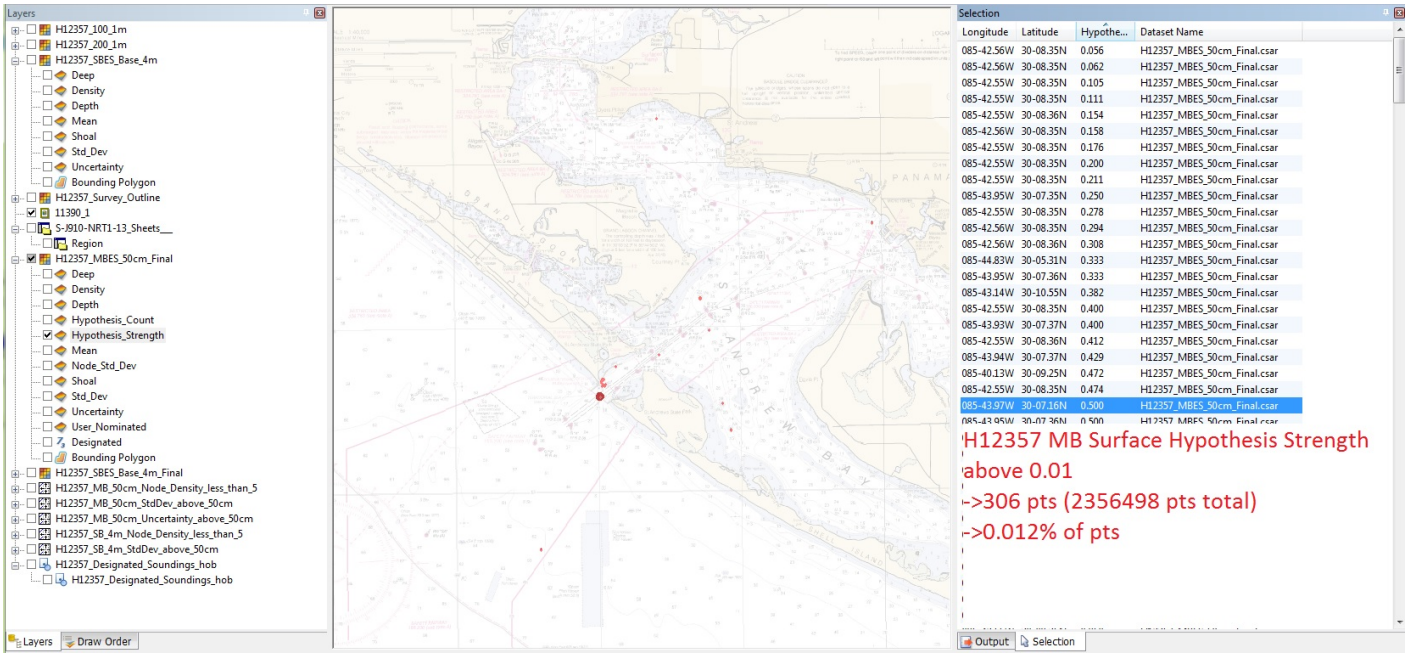


Figure 12: MB Surface Hypothesis Strength above 0.01

B.2.13 Side Scan Sonar holidays

Side Scan Sonar holidays were identified from 100% and 200% mosaics created during data processing. These holidays were all found offshore, and were likely due to the swath displayed during acquisition of the new sonar used (Edgetech 4125). The holidays were closely examined. None of the holidays are common to 100% and 200% coverages, and no contact was found in the concurent mosaic coverage. Full Holiday tables are included in Bathy&Features/Hydrography QC and IHO Standard folder. Screen captures are displayed below.

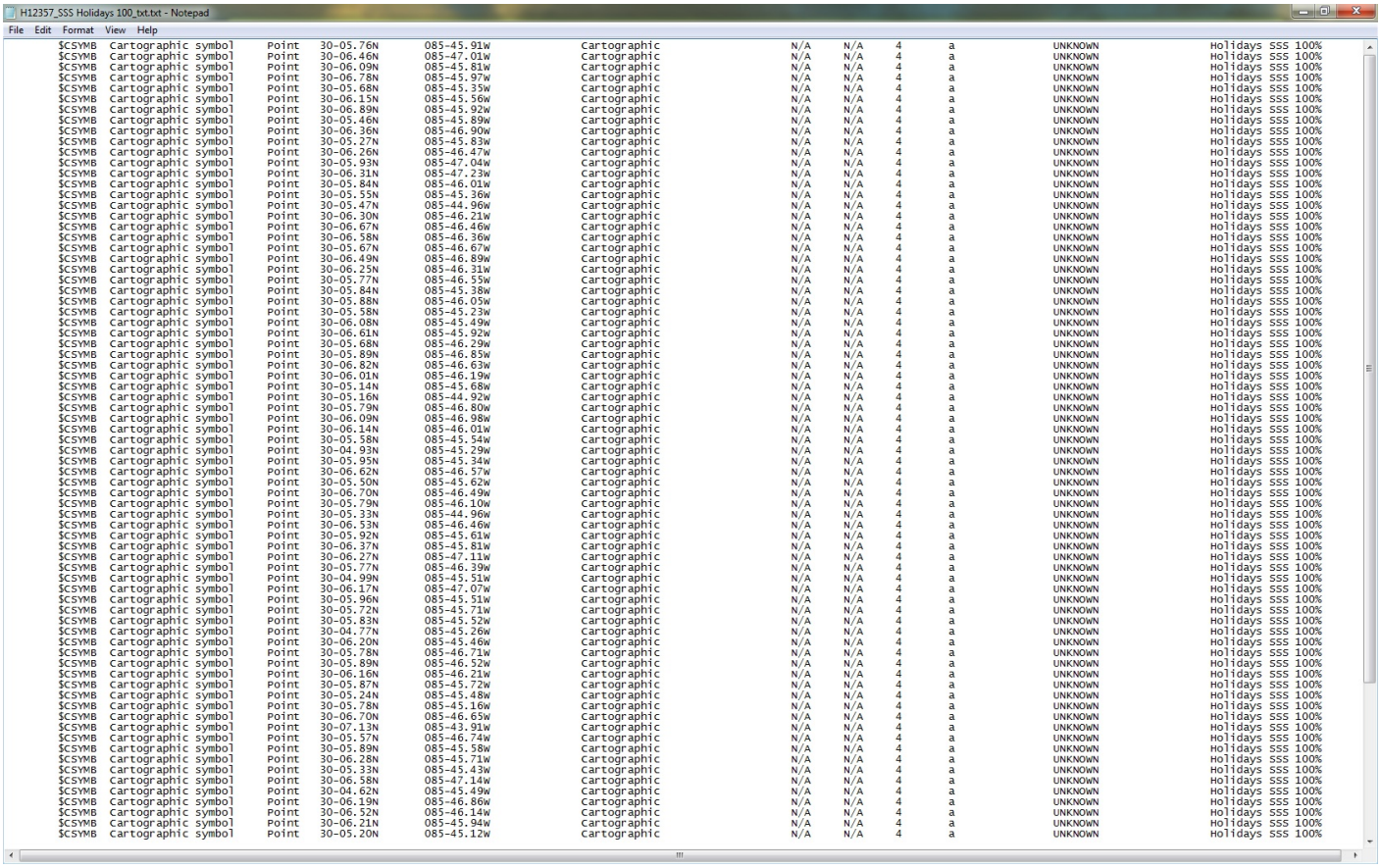


Figure 13: SSS Holidays identified, 100% coverage

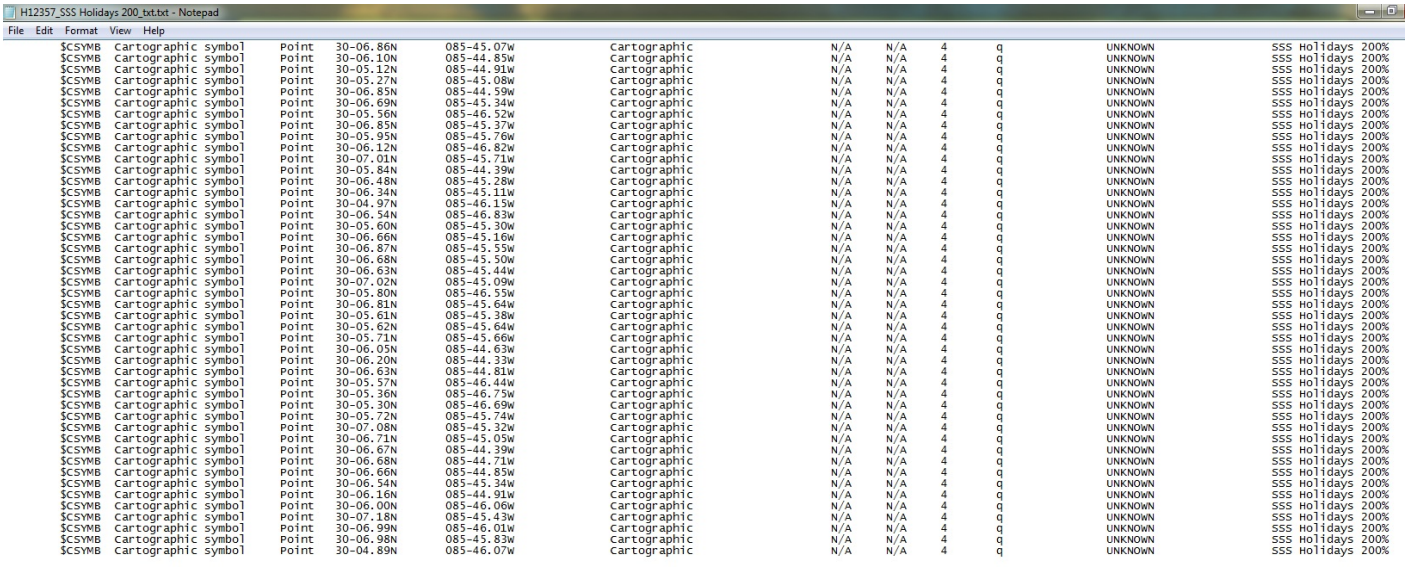


Figure 14: SSS Holidays identified, 200% coverage

Due to the small size and wide distribution of the coverage gaps, the acquired side scan sonar data accomplished its intended purpose and the data is adequate for charting.

B.3 Echo Sounding Corrections

B.3.1 Corrections to Echo Soundings

All data reduction procedures conform to those detailed in the DAPR.

B.3.2 Calibrations

The following calibrations were conducted after the initial system calibration discussed in the DAPR:

Calibration Type	Date	Reason
MBES patch test	2012-02-21	MB installed (for MB multi surface Settlement and Squat measurement purpose)
MBES patch test	2013-05-21	MB installed (for MB multi surface Settlement and Squat measurement purpose)
MBES patch test	2013-08-21	MB installed for contacts investigations

Table 6: Calibrations not discussed in the DAPR.

A new patch test is conducted every time the MBES is installed on the side arm.

B.4 Backscatter

Backscatter was not collected for this survey.

B.5 Data Processing

B.5.1 Software Updates

There were no software configuration changes after the DAPR was submitted.

The following Feature Object Catalog was used: NOAA Profile V_5_3

B.5.2 Surfaces

The following surfaces and/or BAGs were submitted to the Processing Branch:

Surface Name	Surface Type	Resolution	Depth Range	Surface Parameter	Purpose
H12357_MBES_50cm	CUBE	0.5 meters	1.7 meters - 22.2 meters	NOAA_0.5m	MBES TracklineSBES Set Line Spacing
H12357_SBES_Base_4m	BASE Uncertainty	4 meters	0.4 meters - 23.7 meters	NOAA_4m	MBES TracklineSBES Set Line Spacing
H12357_100_1m	SSS Mosaic	1 meters	0 meters - 0 meters	NOAA_1m	100% SSS
H12357_200_1m	SSS Mosaic	1 meters	0 meters - 0 meters	NOAA_1m	200% SSS

Table 7: Submitted Surfaces

Caris surfaces were generated following the Field Procedure Manual and the Specifications and Deliverables guidance. One MB Cube surface was generated at a 50cm resolution, One SB Base surface was generated at a 4m resolution, and a 1m resolution Mosaic was created for each 100% and 200% coverage for the Side Scan Sonar data.

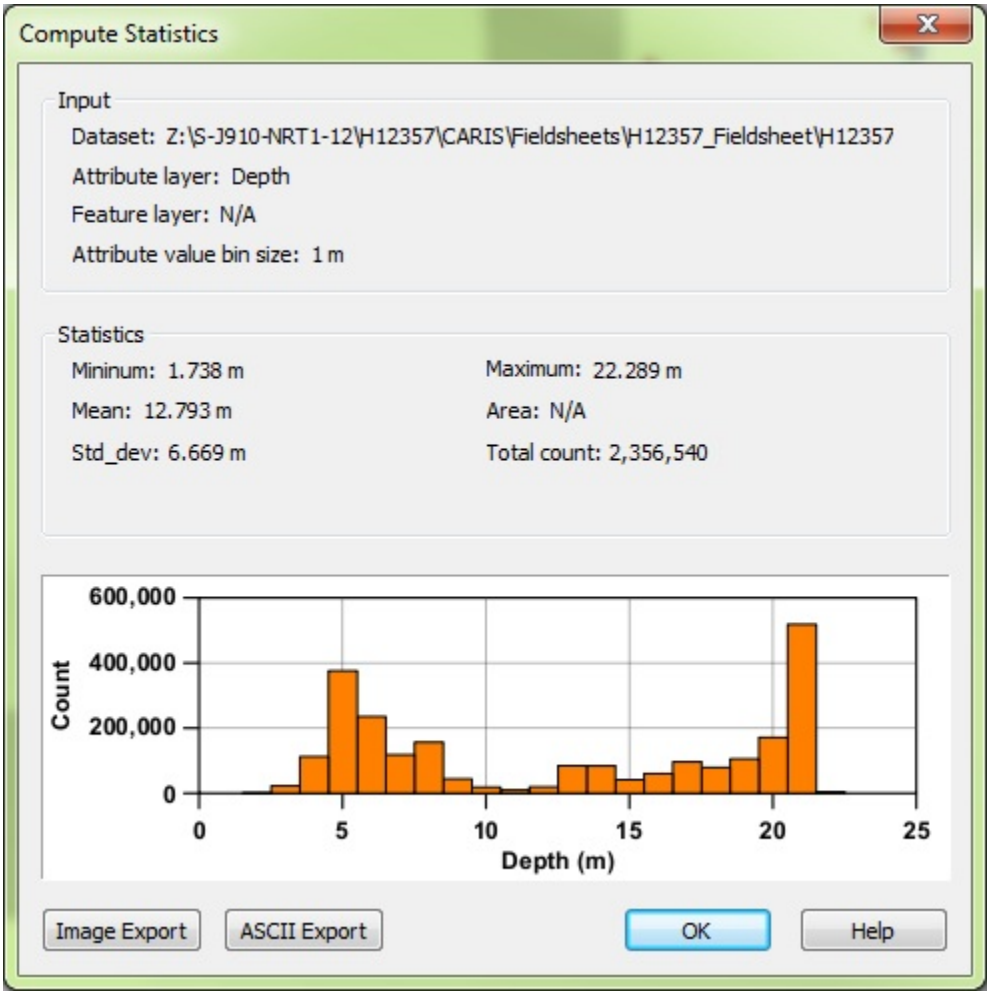


Figure 15: H12357_MBES_50cm Depth Statistics

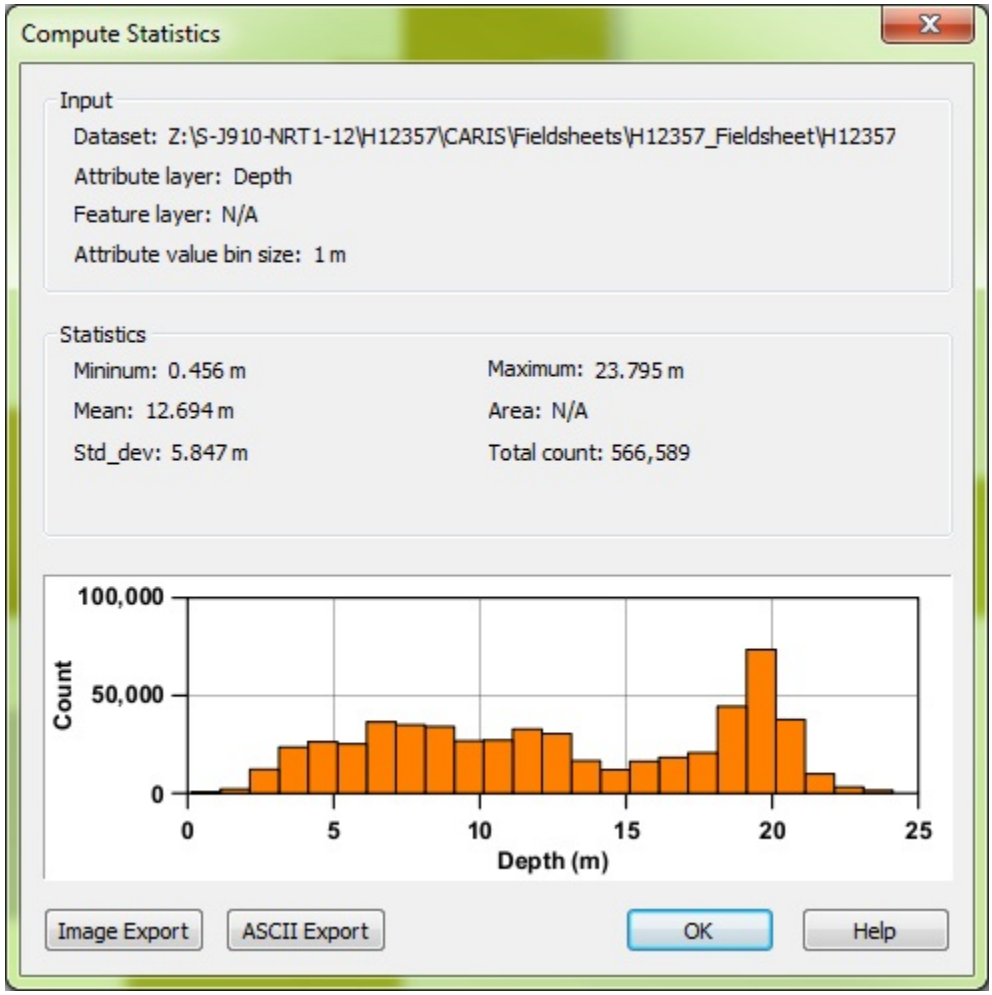


Figure 16: H12357_SBES_Base_4m Depth Statistics

C. Vertical and Horizontal Control

Additional information discussing the vertical or horizontal control for this survey can be found in the accompanying HVCR.

C.1 Vertical Control

The vertical datum for this project is Mean Lower Low Water.

Standard Vertical Control Methods Used:

Discrete Zoning

The following National Water Level Observation Network (NWLON) stations served as datum control for this survey:

Station Name	Station ID
Panama City, FL	8729108

Table 8: NWLON Tide Stations

File Name	Status
8729108.tid	Final Approved

Table 9: Water Level Files (.tid)

File Name	Status
J910NRT12011RevCORP.zdf	Preliminary
J910NRT12012CORP.zdf	Preliminary
J910NRT12013CORP.zdf	Final

Table 10: Tide Correctors (.zdf or .tc)

A request for final approved tides was sent to N/OPS1 on 01/08/2014. The final tide note was received on 09/24/2014.

No changes made in Final Tides. Preliminary tides J910NRT12013CORP.zdf were approved as Final and applied to dataset.

The Tide Note is attached.

C.2 Horizontal Control

The horizontal datum for this project is North American Datum of 1983 (NAD83).

The projection used for this project is UTM 16N.

The following DGPS Stations were used for horizontal control:

DGPS Stations
Site ID 812

Table 11: USCG DGPS Stations

D. Results and Recommendations

D.1 Chart Comparison

Chart comparison for soundings was treated as such where bathymetry shoaler or deeper than one foot was observed.

D.1.1 Raster Charts

The following are the largest scale raster charts, which cover the survey area:

Chart	Scale	Edition	Edition Date	LNM Date	NM Date
11389	1:80000	34	06/2011	11/02/2013	11/02/2013
11390	1:40000	25	10/2012	11/02/2013	11/02/2013
11391	1:25000	25	01/2013	11/02/2013	11/02/2013
11392	1:5000	7	11/2005	10/26/2013	10/26/2013

Table 12: Largest Scale Raster Charts

11389

Sounding comparison was excellent.

11390

Sounding comparison was excellent.

11391

This is the largest scale chart covering the survey area. Overall sounding agreement is excellent with current survey soundings within 1 foot of charted soundings.

See Section D.1.8 for survey discrepancies with the chart.

11392

Chart 11392 did not cover the current survey area

D.1.2 Electronic Navigational Charts

The following are the largest scale ENCs, which cover the survey area:

ENC	Scale	Edition	Update Application Date	Issue Date	Preliminary?
US5FL61M	1:40000	4	01/08/2013	01/08/2013	NO
US5FL66M	1:25000	7	04/03/2013	04/03/2013	NO
US5FL67M	1:5000	10	09/15/2011	09/15/2011	NO

Table 13: Largest Scale ENCs

US5FL61M

Thia ENC does not cover any of the current survey area.

US5FL66M

Agreement between this ENC and the current survey is excellent.

US5FL67M

This ENC does not cover any of the current survey area.

D.1.3 AWOIS Items

All assigned AWOIS were covered by 200% side scan sonar. Investigation targets were created when AWOIS items were detected, and MBES investigations were conducted.

See attached AWOIS Report.

D.1.4 Maritime Boundary Points

No Maritime Boundary Points were assigned for this survey.

D.1.5 Charted Features

Charted features within survey sheet were covered by 200% SSS. Significant items found in SSS record were investigated with a MBES when possible and safe. 2 Charted features were investigated.

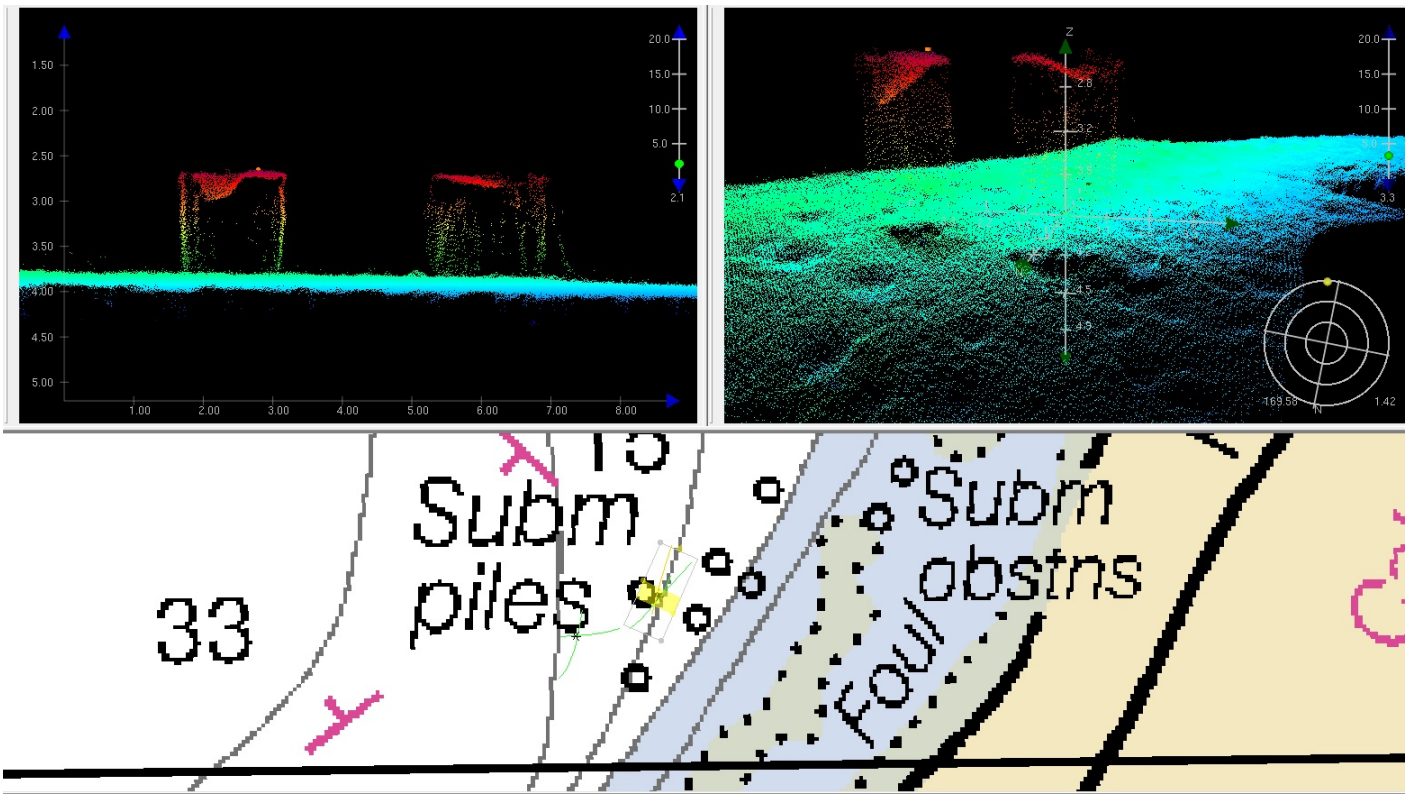


Figure 17: 866/37 Submerged piles, Charted

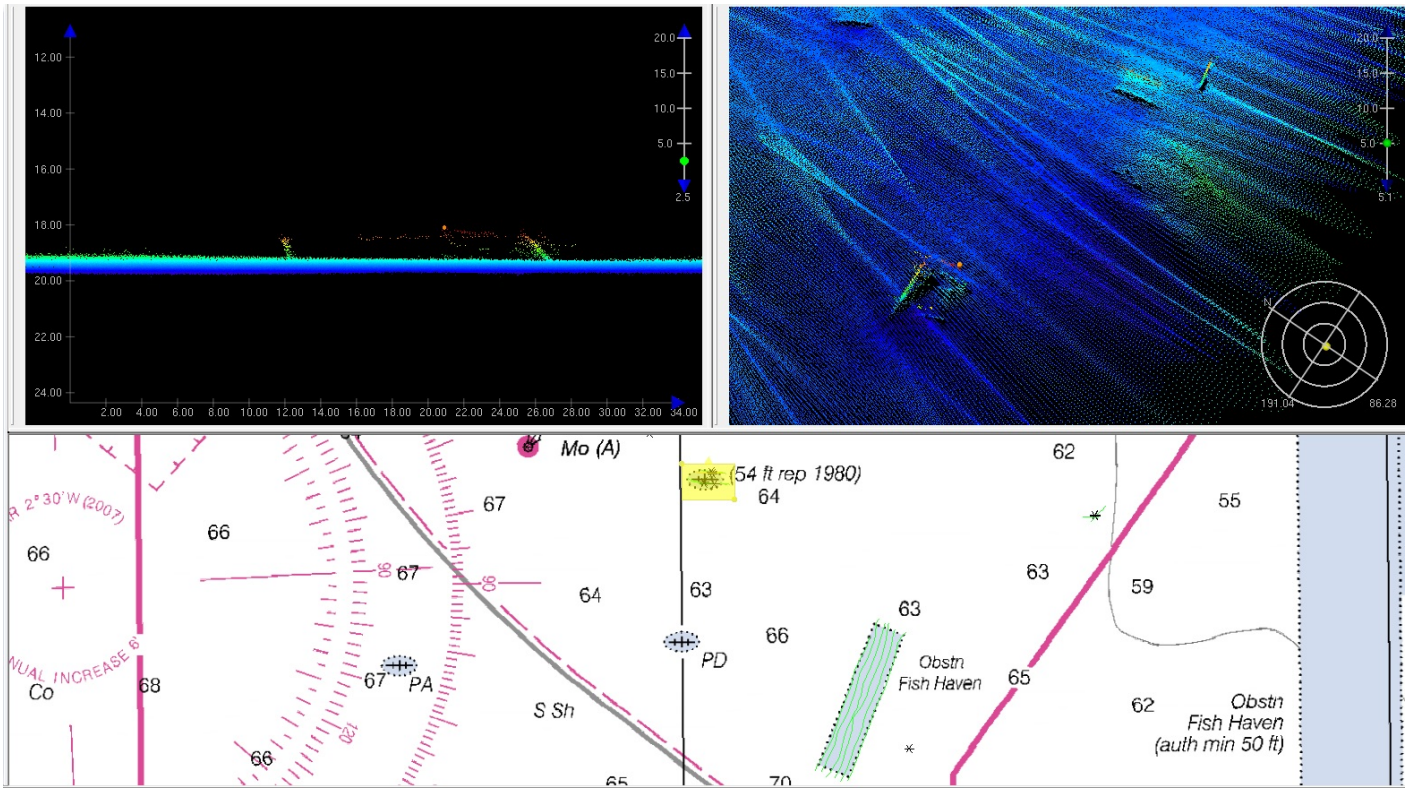


Figure 18: 333/113 59 ft Wreck, Charted

D.1.6 Uncharted Features

Significant contacts seen in 200% SSS record were investigated with a MBES when possible and safe. 12 uncharted features were investigated.

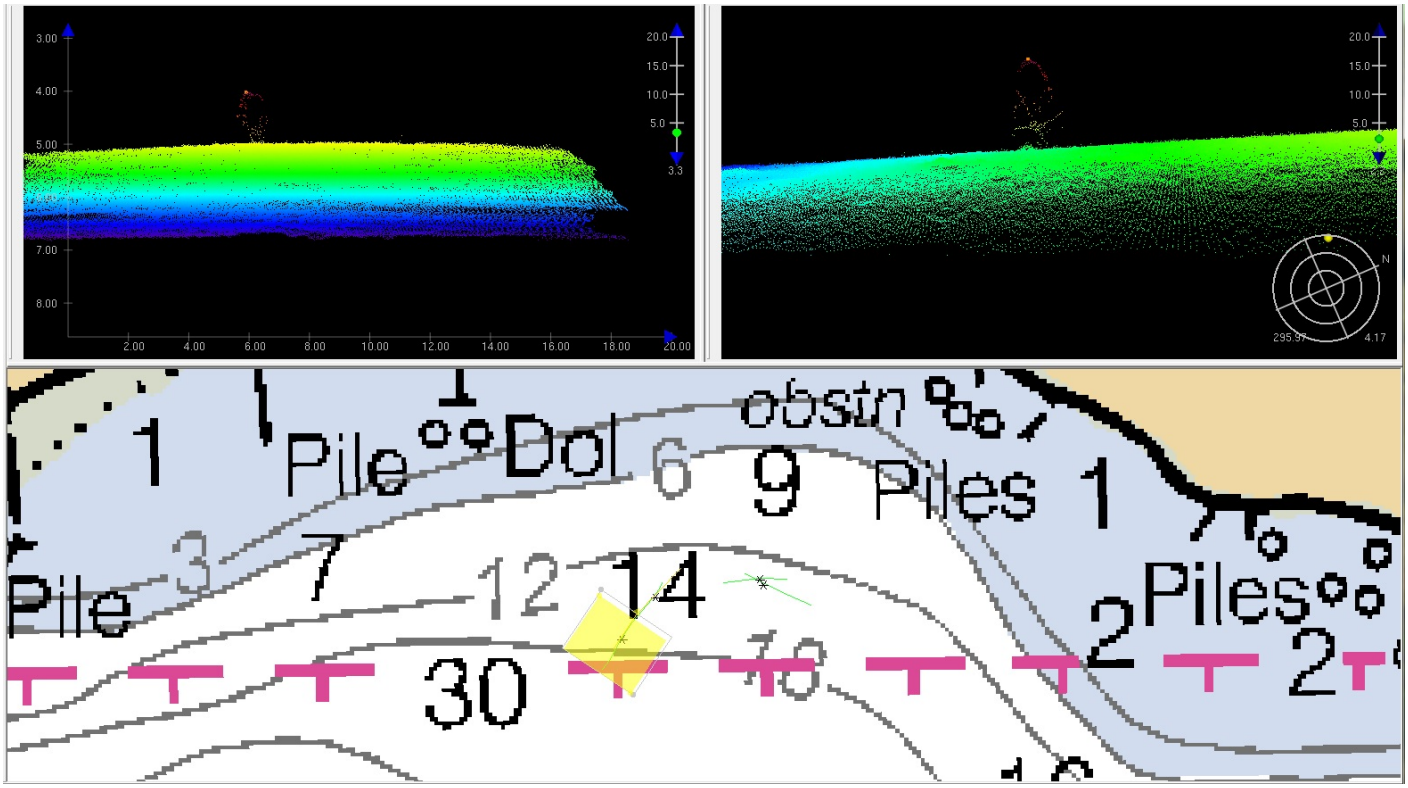


Figure 19: 391/142 13 ft. Obstruction Uncharted

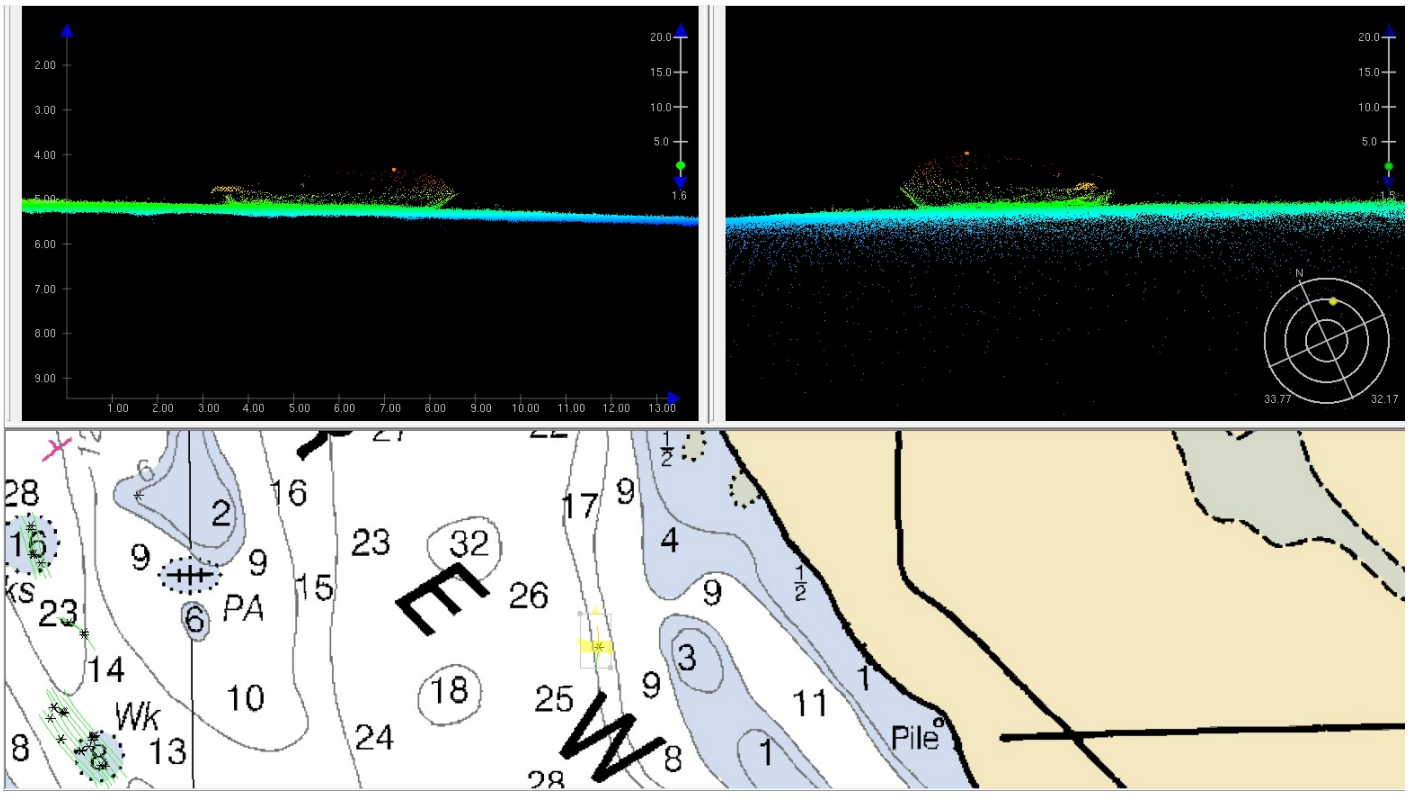


Figure 20: 766/112 14 ft Wreck Uncharted

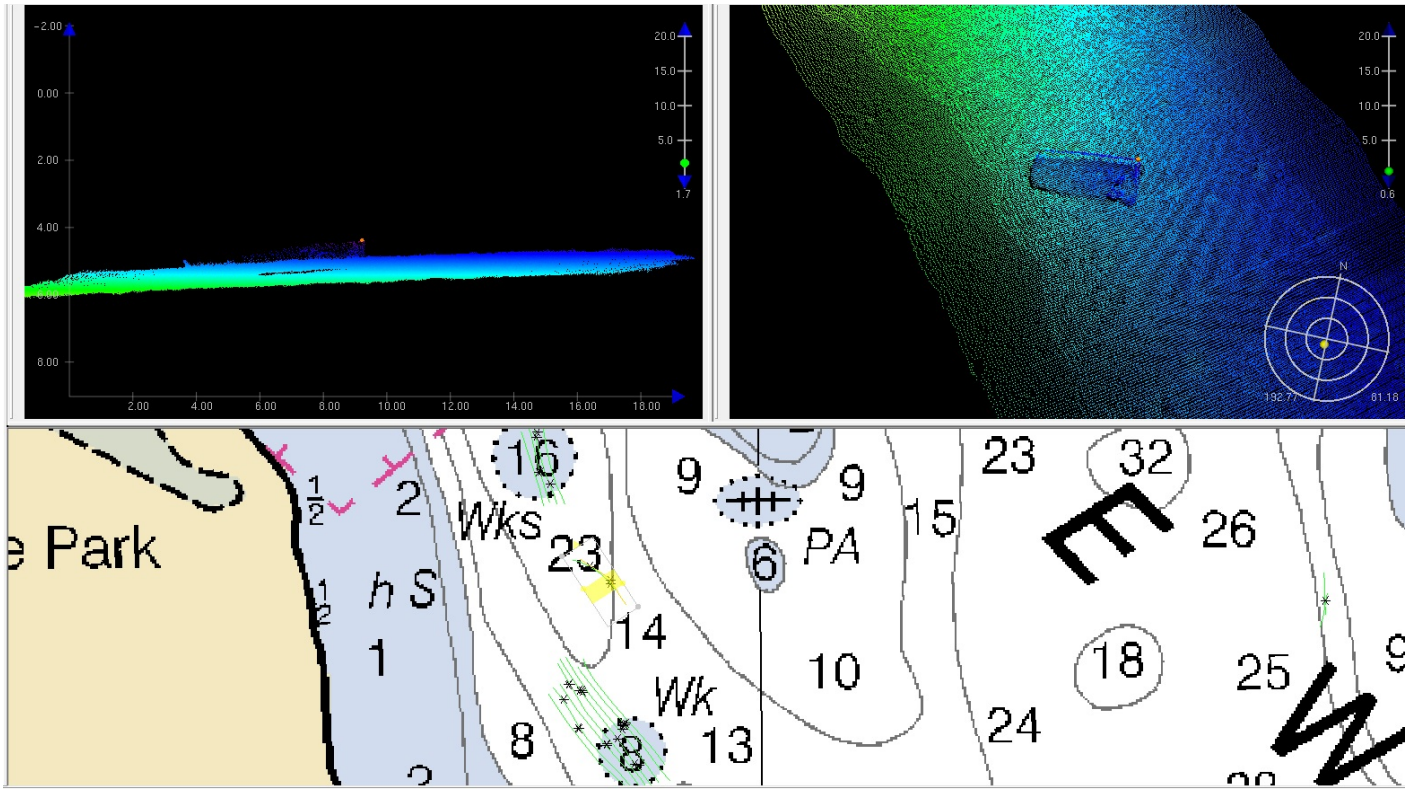


Figure 21: 707/45 14.1 ft Wreck Uncharted

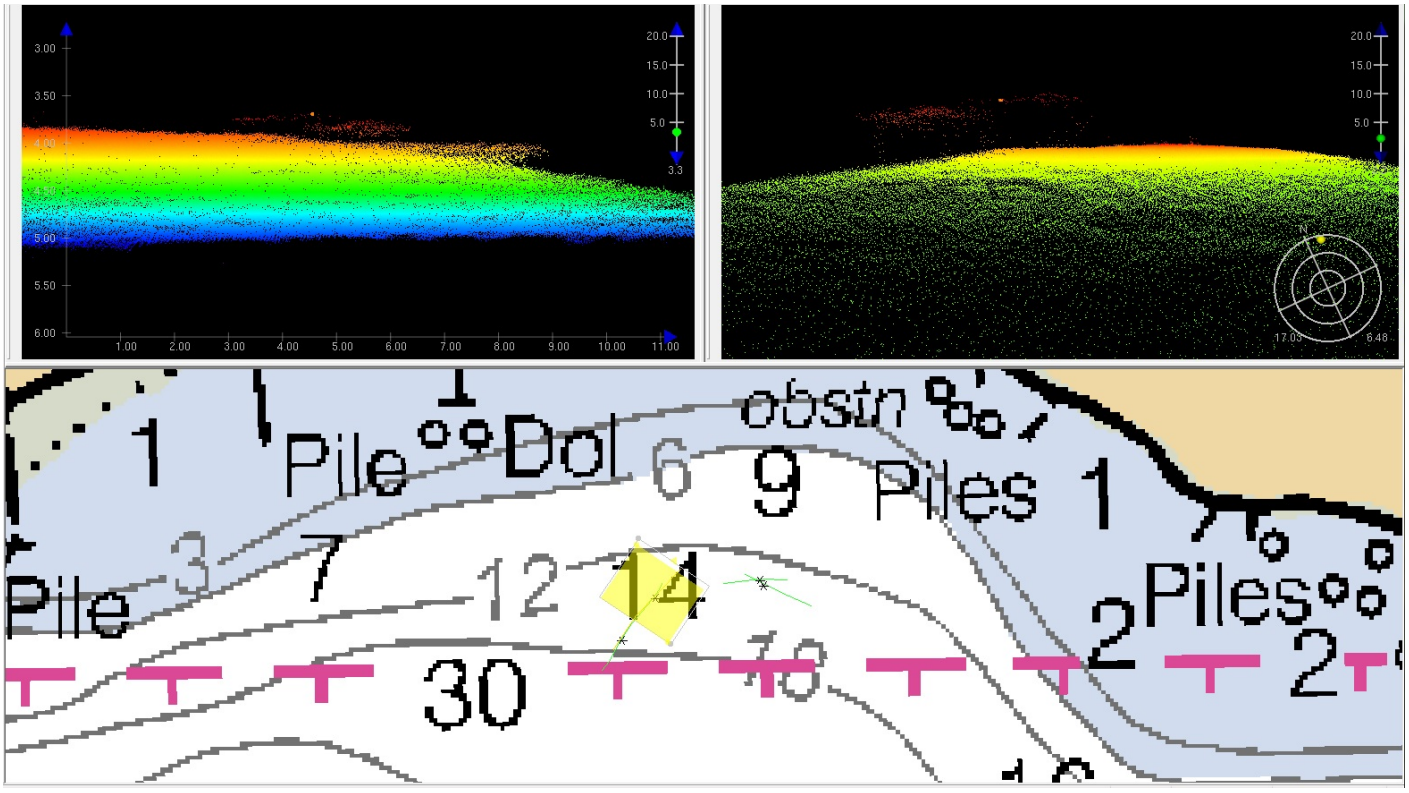


Figure 22: 452/172 12 ft Obstruction Uncharted

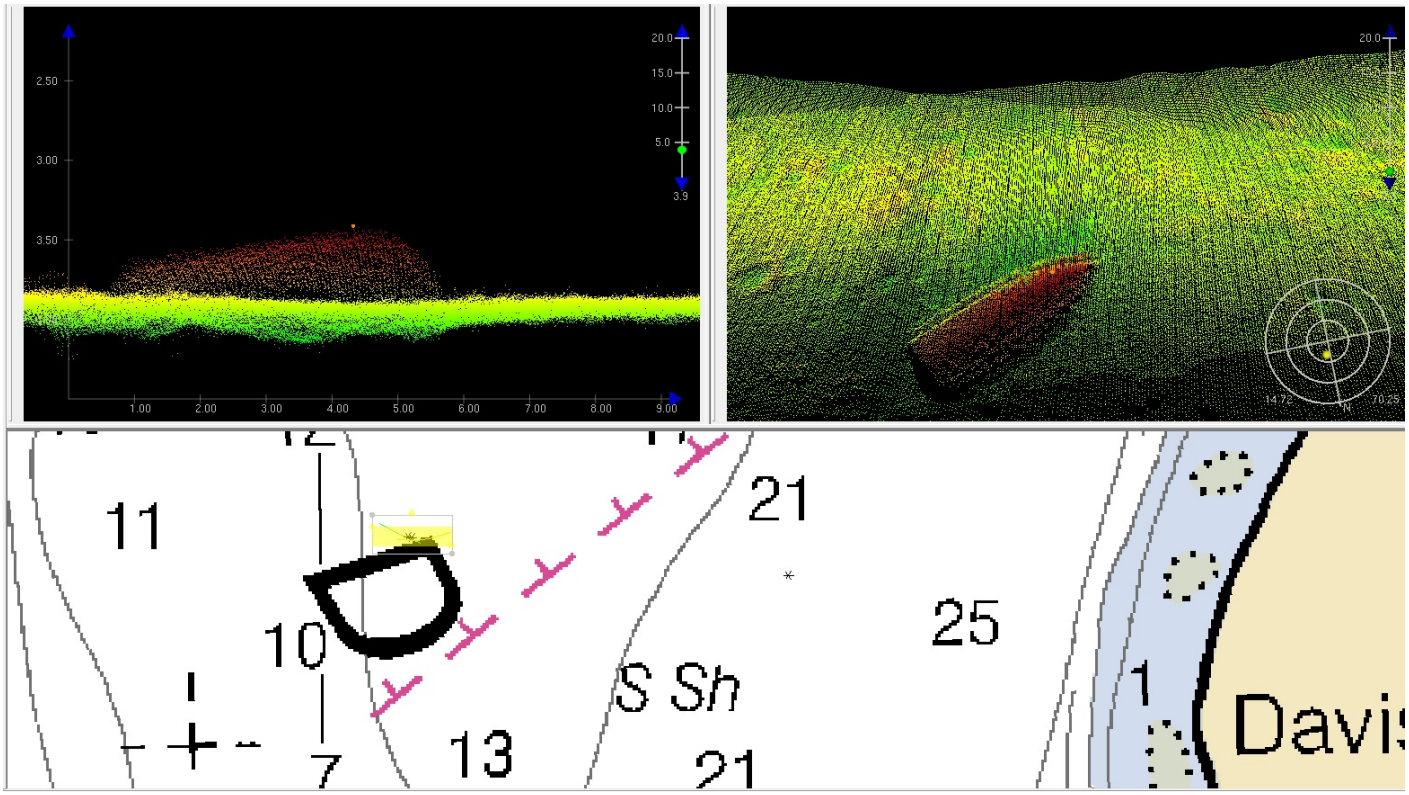


Figure 23: 584/42 11.1 ft wreck Uncharted

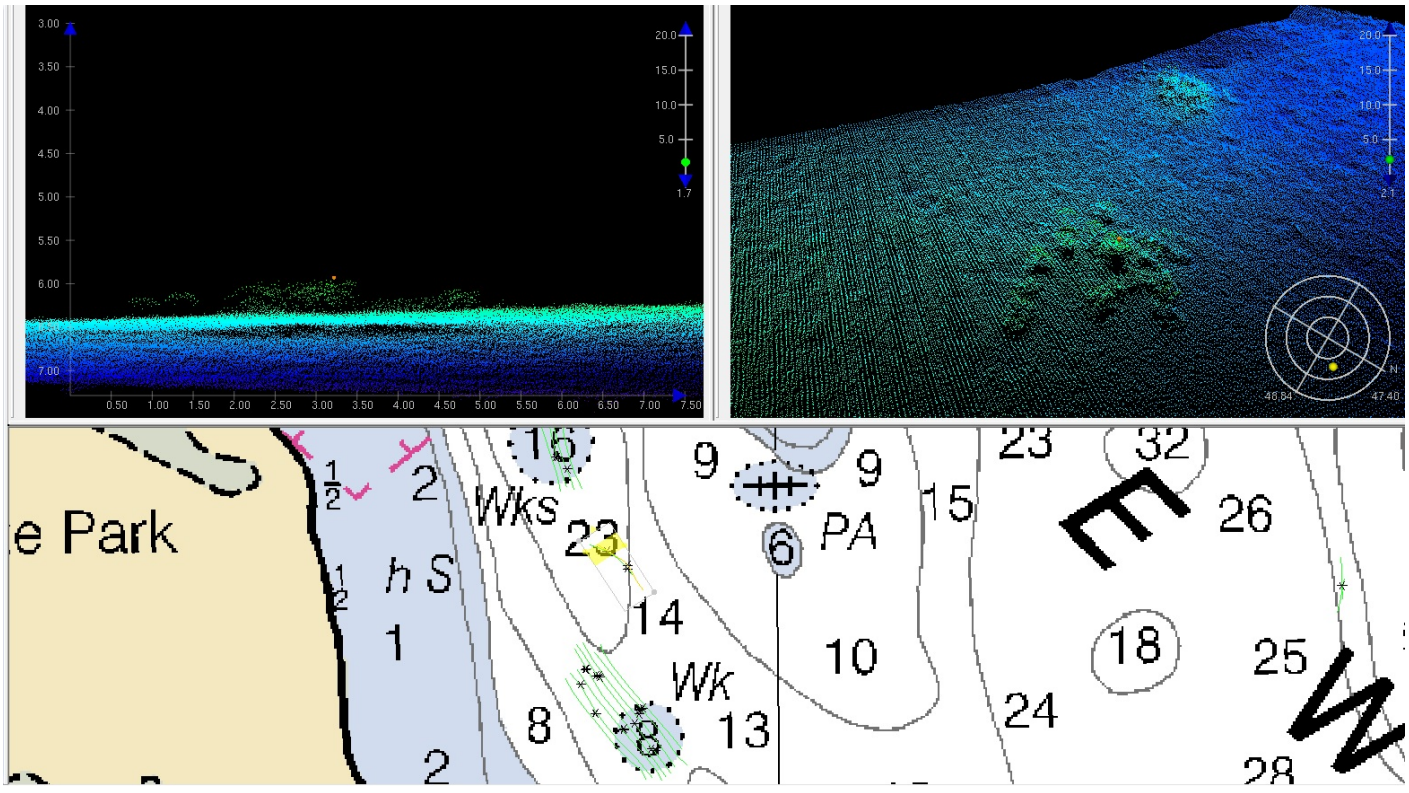


Figure 24: 331/57 19.3 ft Obstruction Uncharted

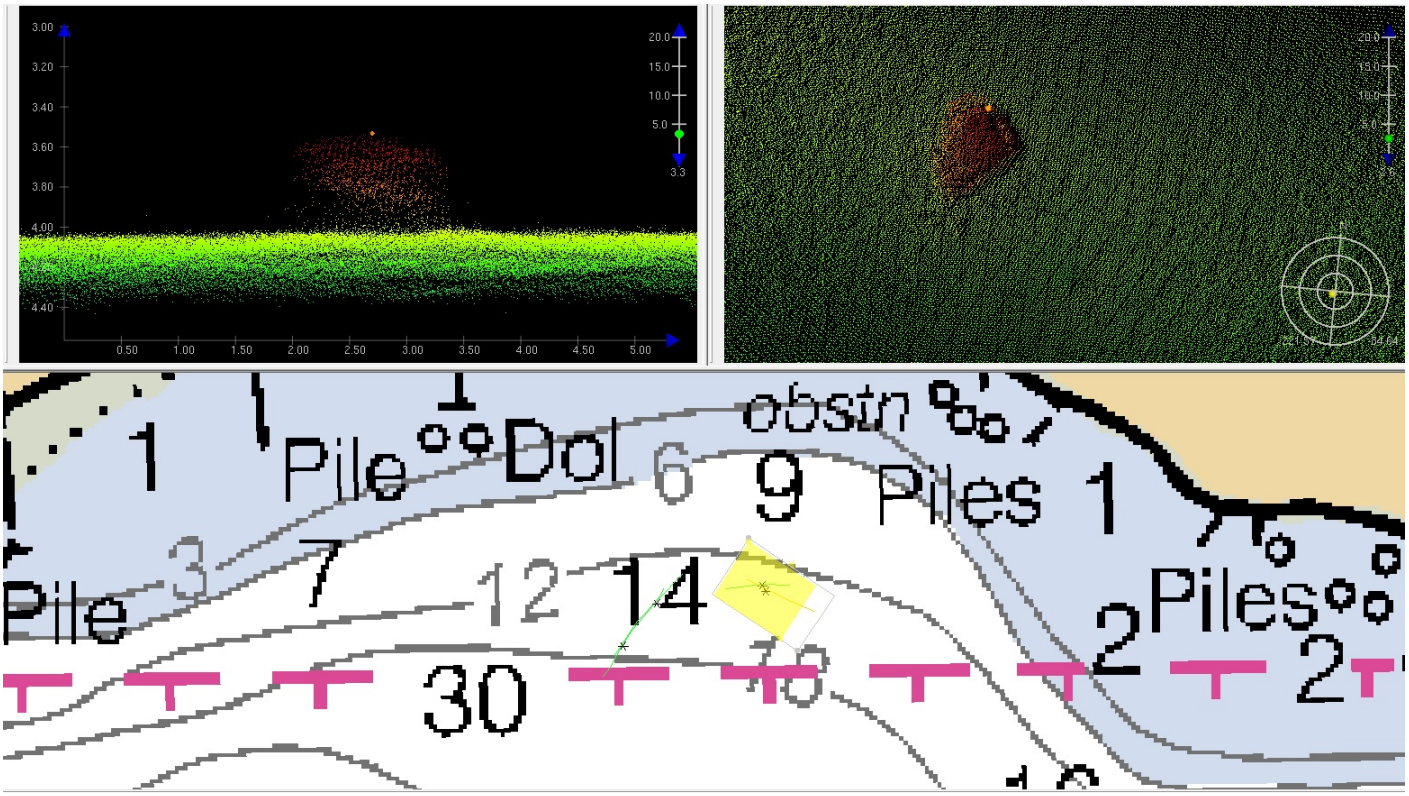


Figure 25: 634/89 11.5 ft Obstruction Uncharted

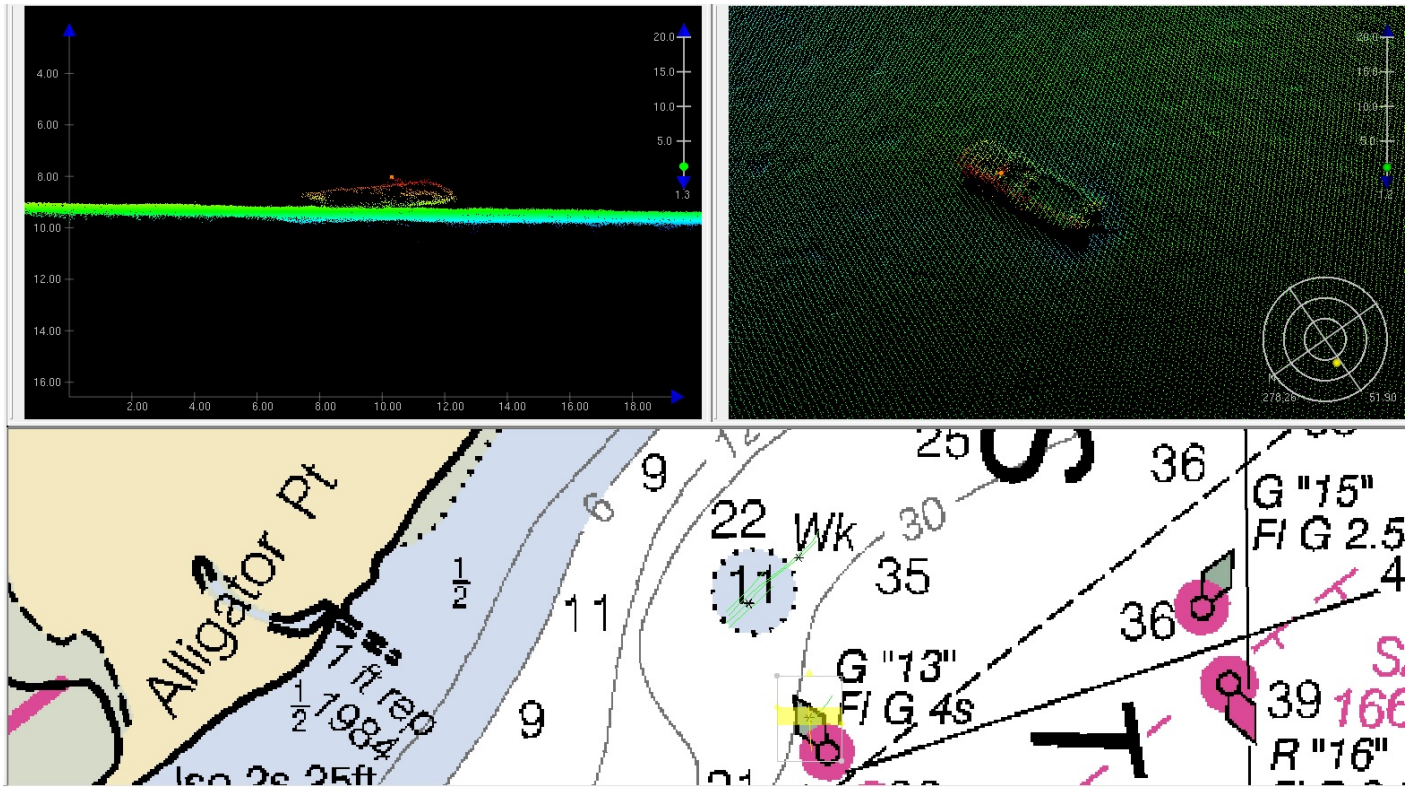


Figure 26: 345/125 26 ft. Wreck Uncharted

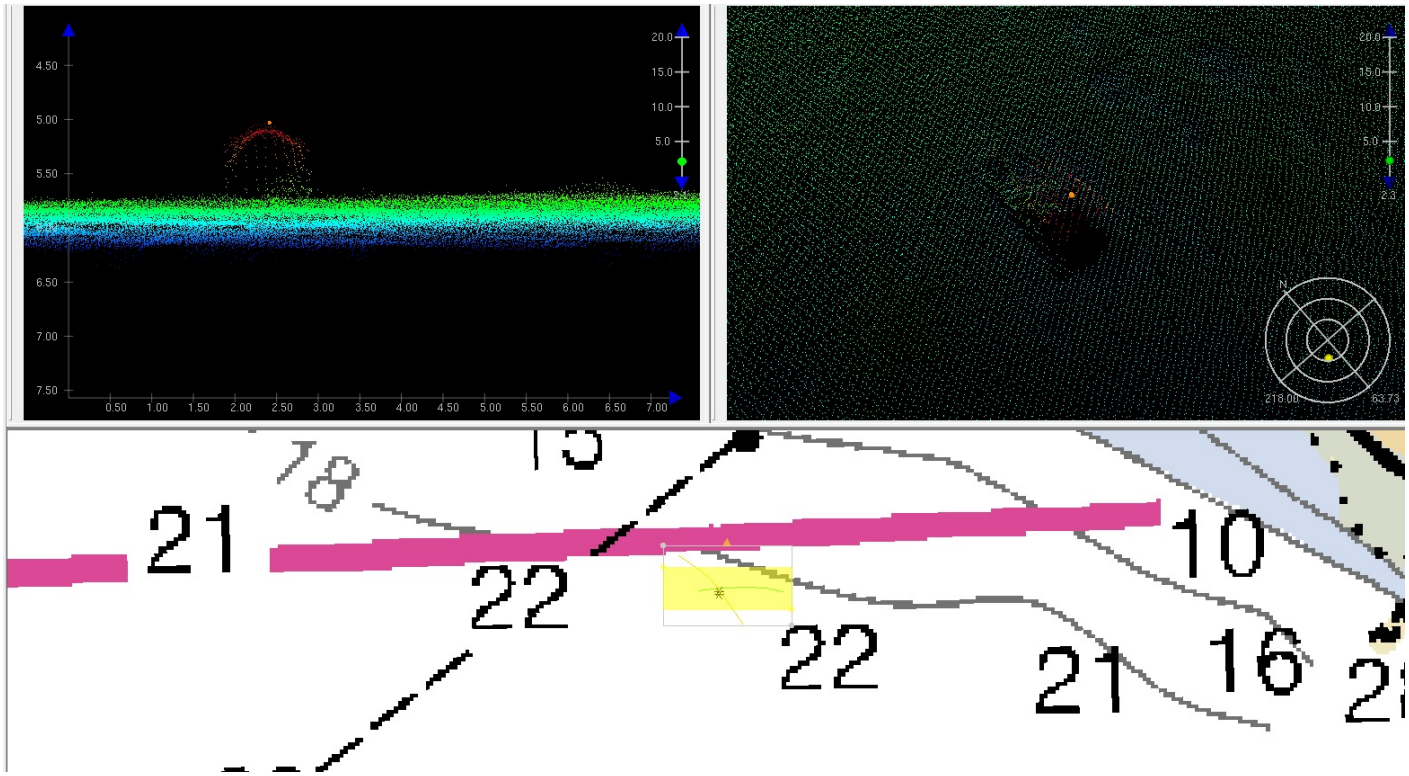


Figure 27: 581/32 16.4 ft Unknown Obstruction Uncharted

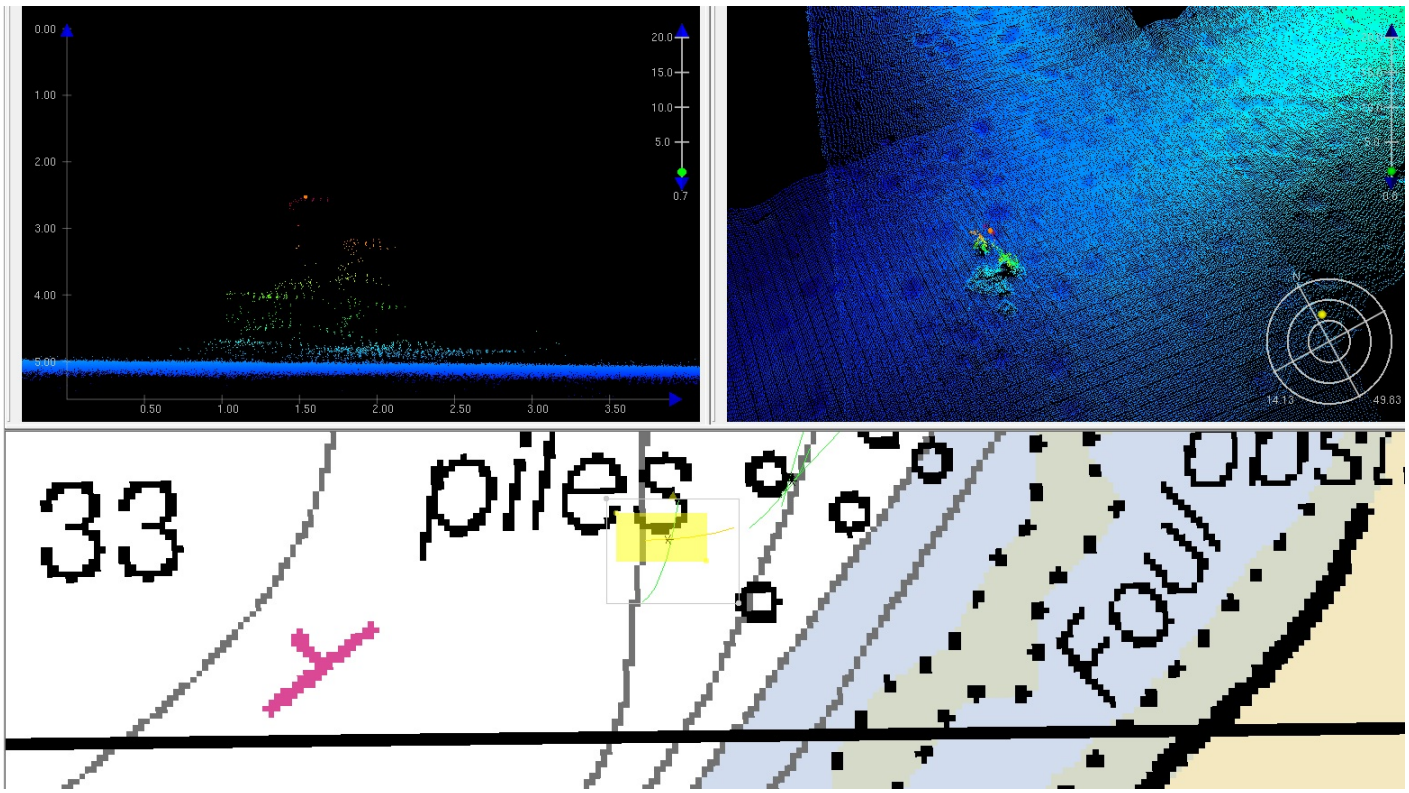


Figure 28: 718/9 8.1 ft Unknown obstruction Uncharted

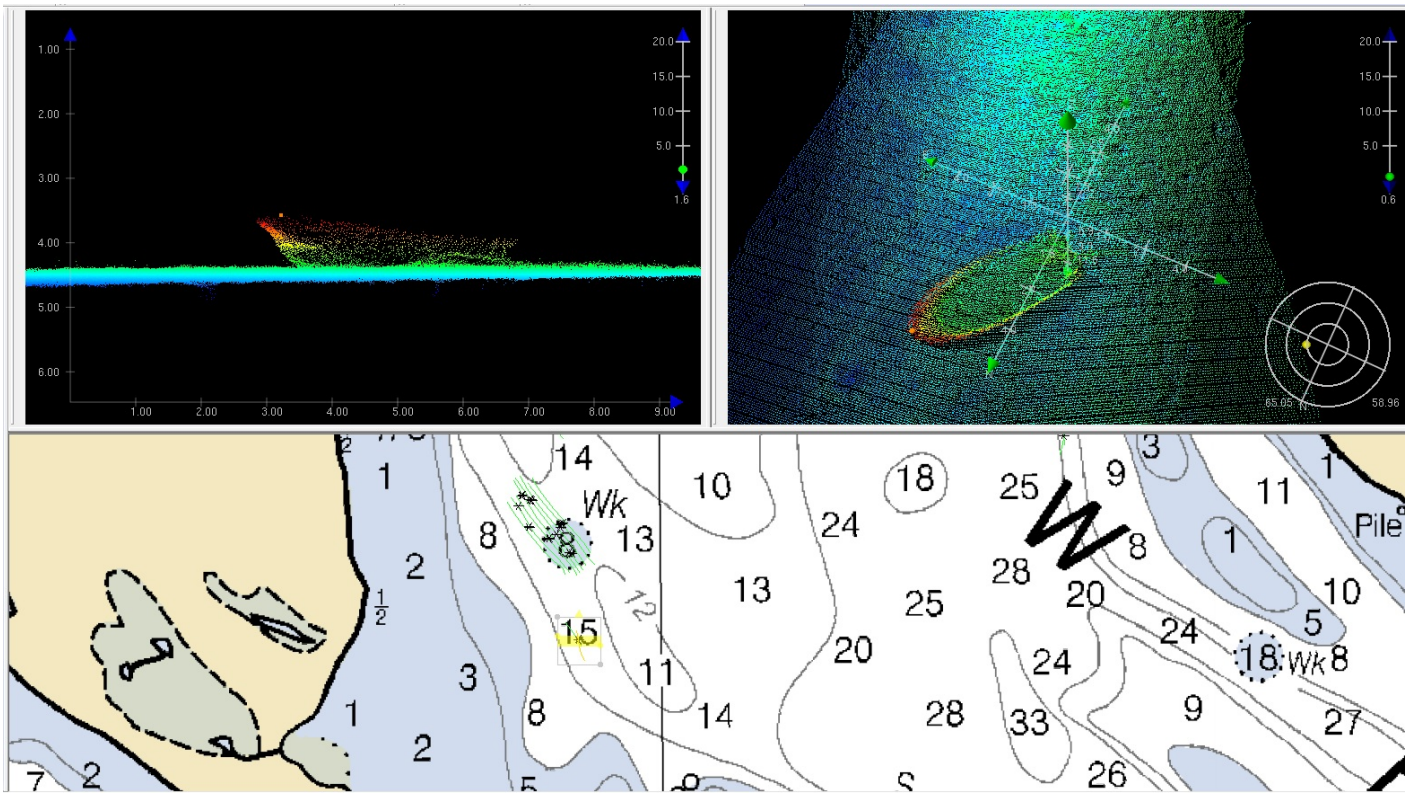


Figure 29: 609/10 11.6 ft wreck Uncharted

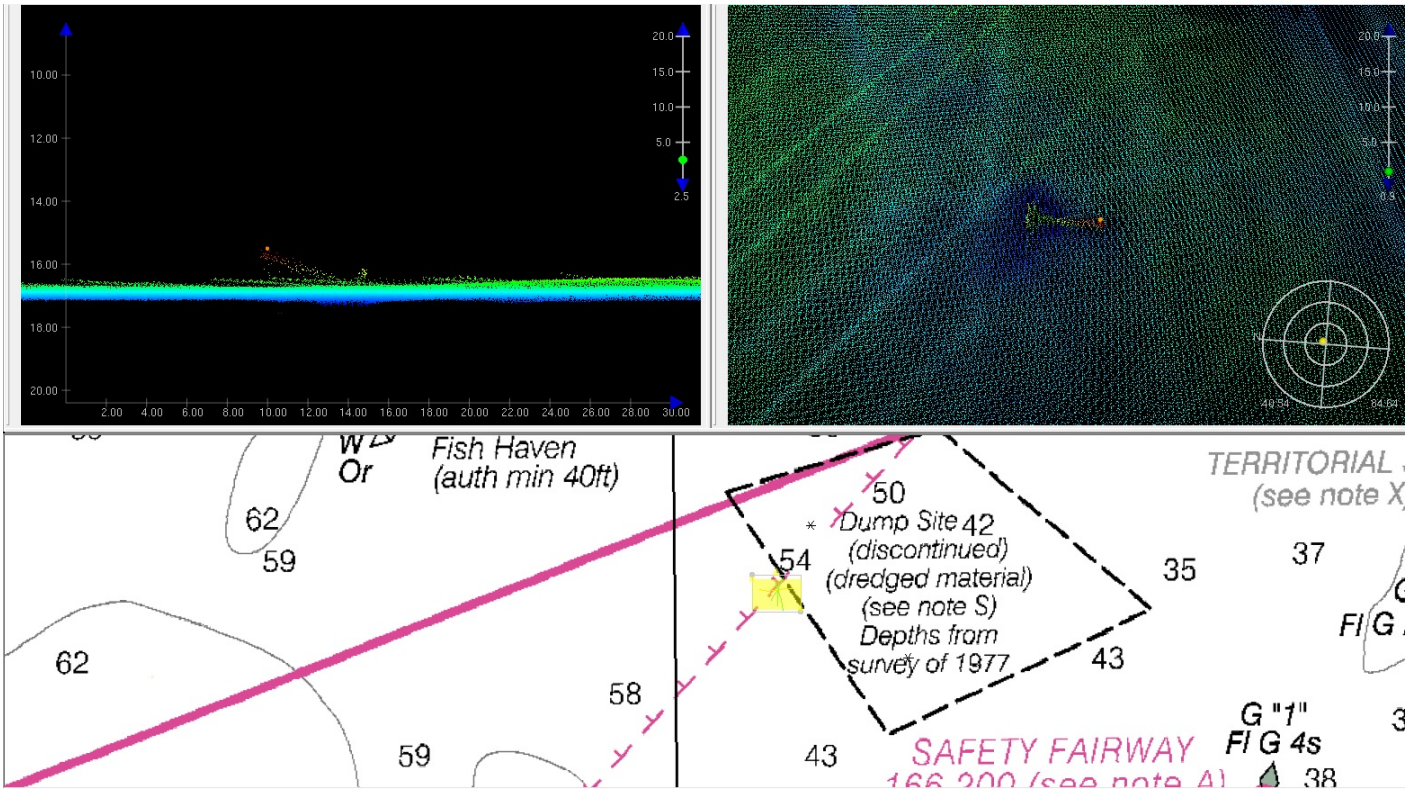


Figure 30: 145/34 50 ft. Wreck Uncharted

D.1.7 Dangers to Navigation

The following DTON reports were submitted to the processing branch:

DTON Report Name	Date Submitted
DTON Report #1	2013-10-22

Table 14: DTON Reports

DTON report submitted 10/22/13

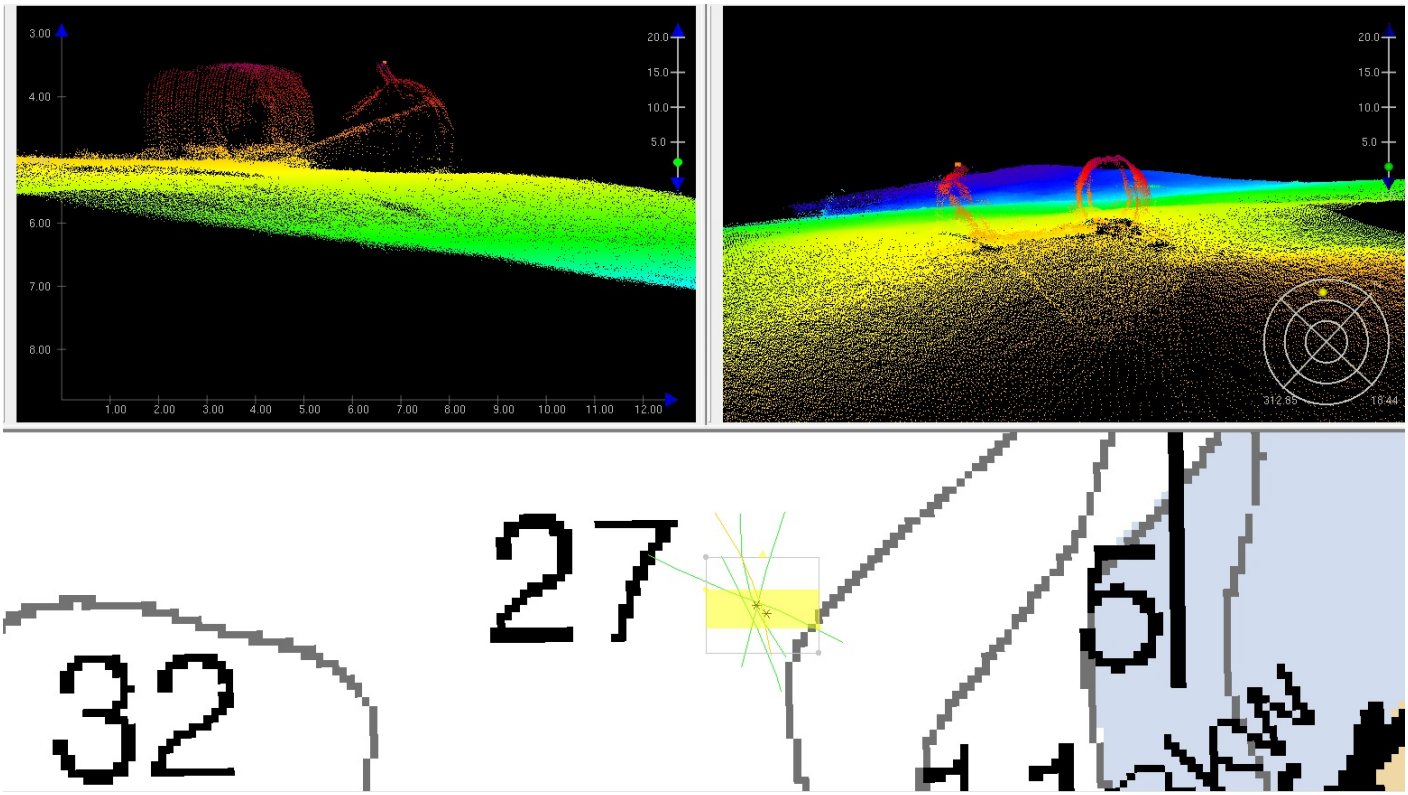


Figure 31: DTON #1, 30° 09' 14.9" N, 085° 40' 08.2" W

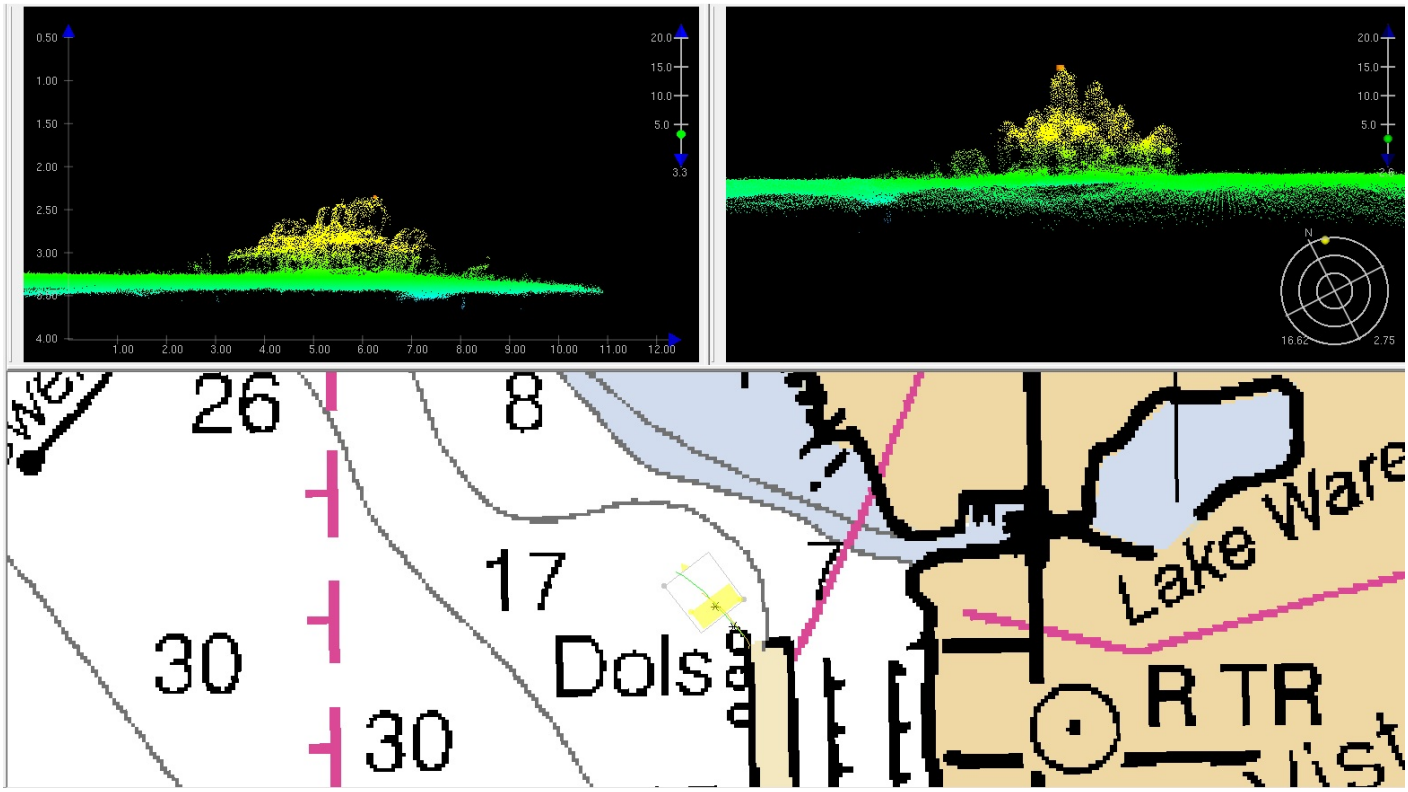


Figure 32: DTON #2, 30° 10' 11.4" N, 085° 42' 19.3" W

See attached DTON Report.

D.1.8 Shoal and Hazardous Features

Soundings in the Northwest corner of the survey area adjacent to a charted dump site are significantly shoaler than the current survey depths. Chart the sounding from the current survey. (fig. 33)
A charted 37 foot sounding was found to be in error. The current survey soundings are 25-27 feet. It appears the charted shoal to the Northwest has migrated Southeast and the 24 foot contour needs revision. This shoal does not present a danger to navigation. (fig. 34)
A charted shoal on the Northwest side of the St Andrew Bay Entrance Channel was found to be 6-7 feet deeper than charted. (fig. 35)
A series of three shoals, charted as 10 feet, 7 feet, and 11 feet were investigated with reduced line spacing SBES and least depths were 14 feet, 11 feet and 13 feet. (fig. 36)
A charted 18 foot shoal was developed with reduced line spacing SBES and a least depth of 23 feet was found. The 18 foot sounding should be removed from the chart. (fig. 37)
A charted 16 foot shoal was investigated with reduced line spacing and was not found. The sounding should be removed from the chart. (fig. 38)
A charted 2 foot shoal was developed with SBES reduced line spacing and least depths of 1 foot were found. (fig. 39)
A charted 5 foot shoal was developed with SBES reduced line spacing and was the 6 foot contour should be revised to cover a smaller area. (fig. 40)
A charted 8 foot shoal was investigated with reduced line spacing single beam and was found to be accurately charted. (fig. 41)

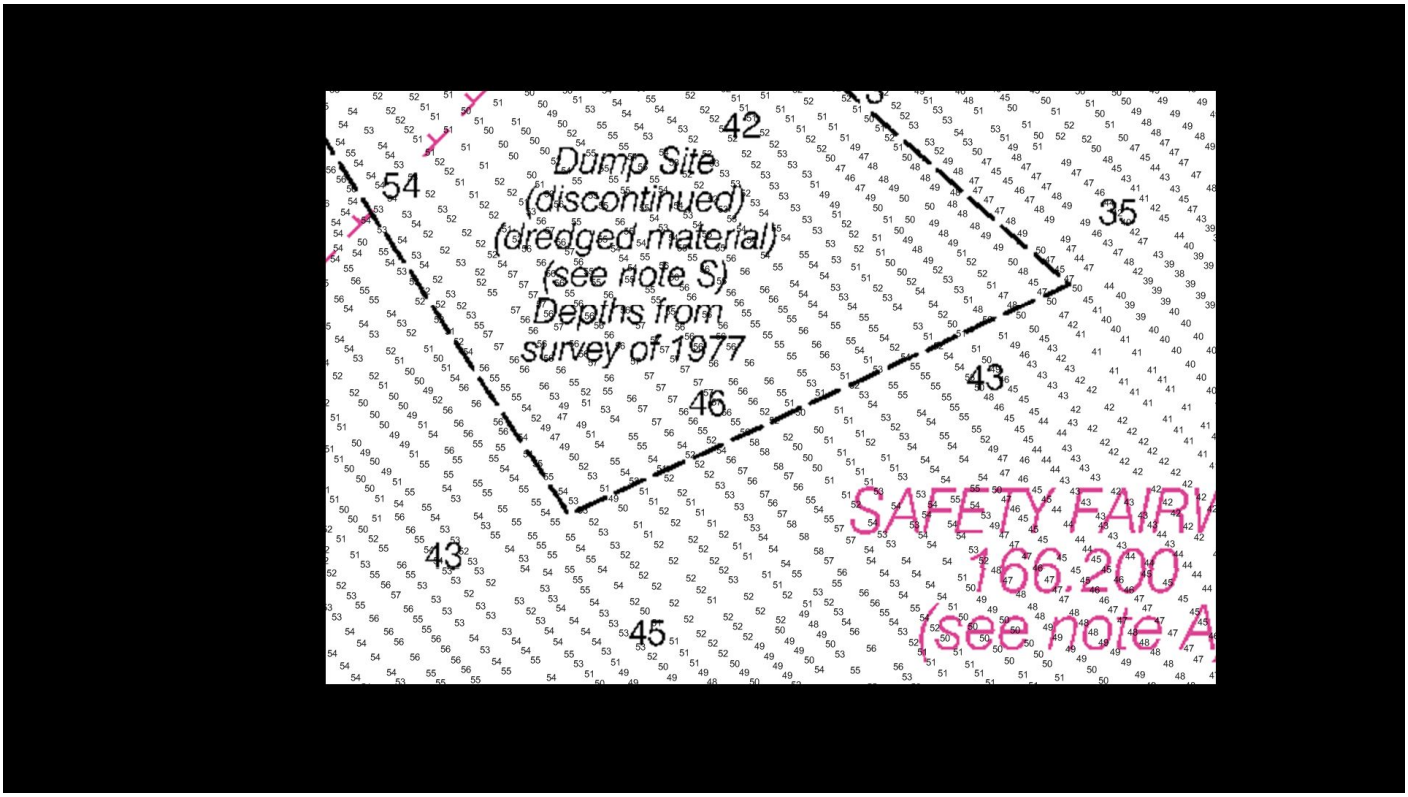


Figure 33: Shoal soundings

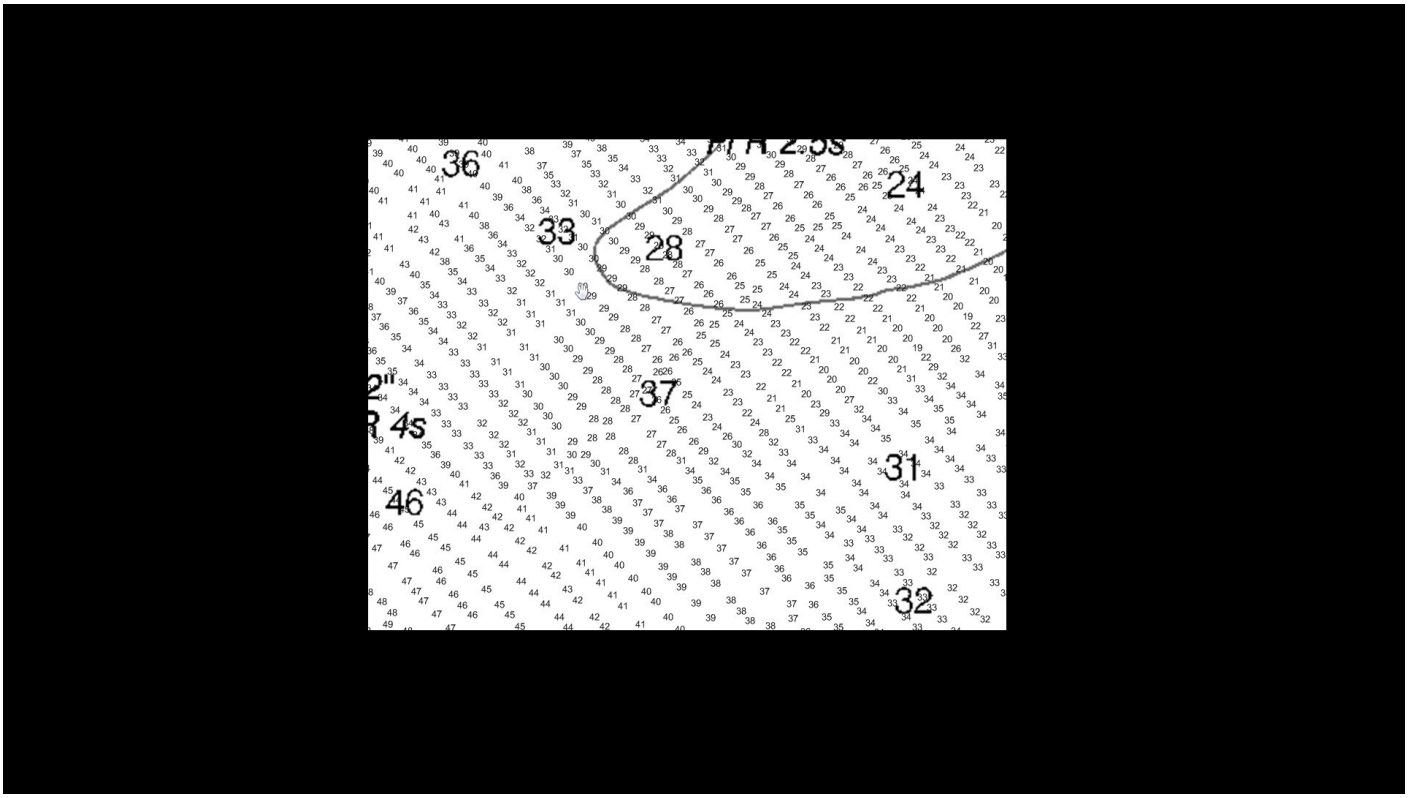


Figure 34: 37 foot sounding

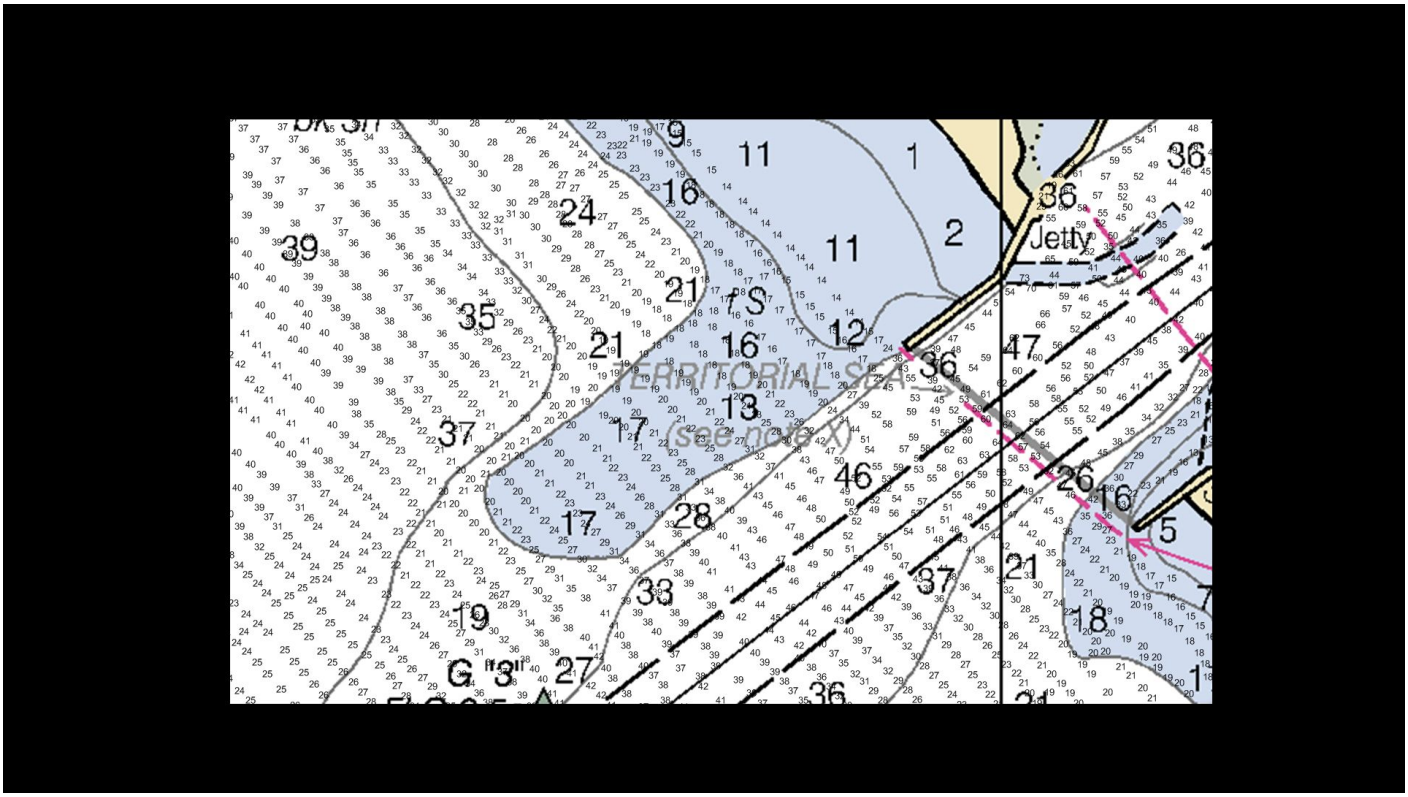


Figure 35: 13 foot shoal

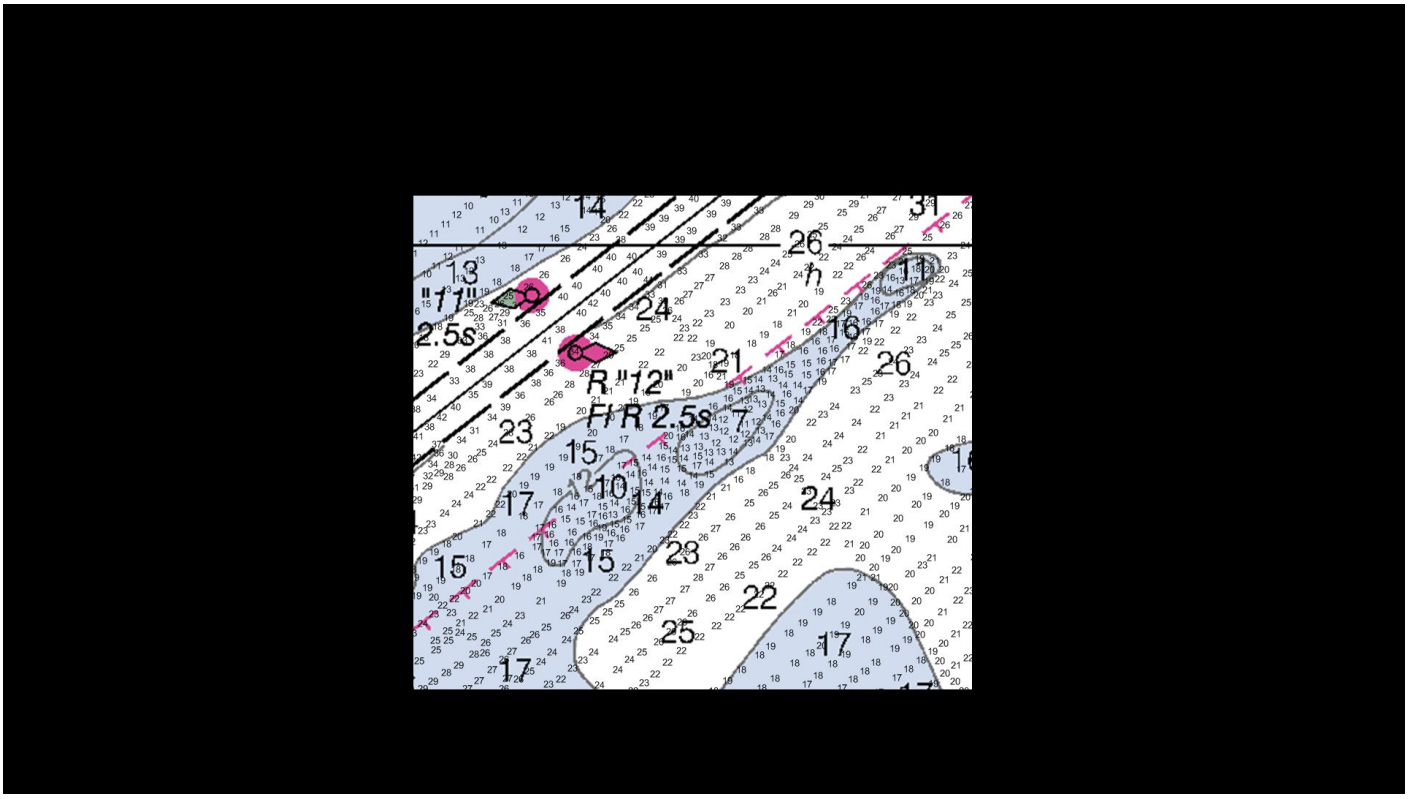


Figure 36: shoals

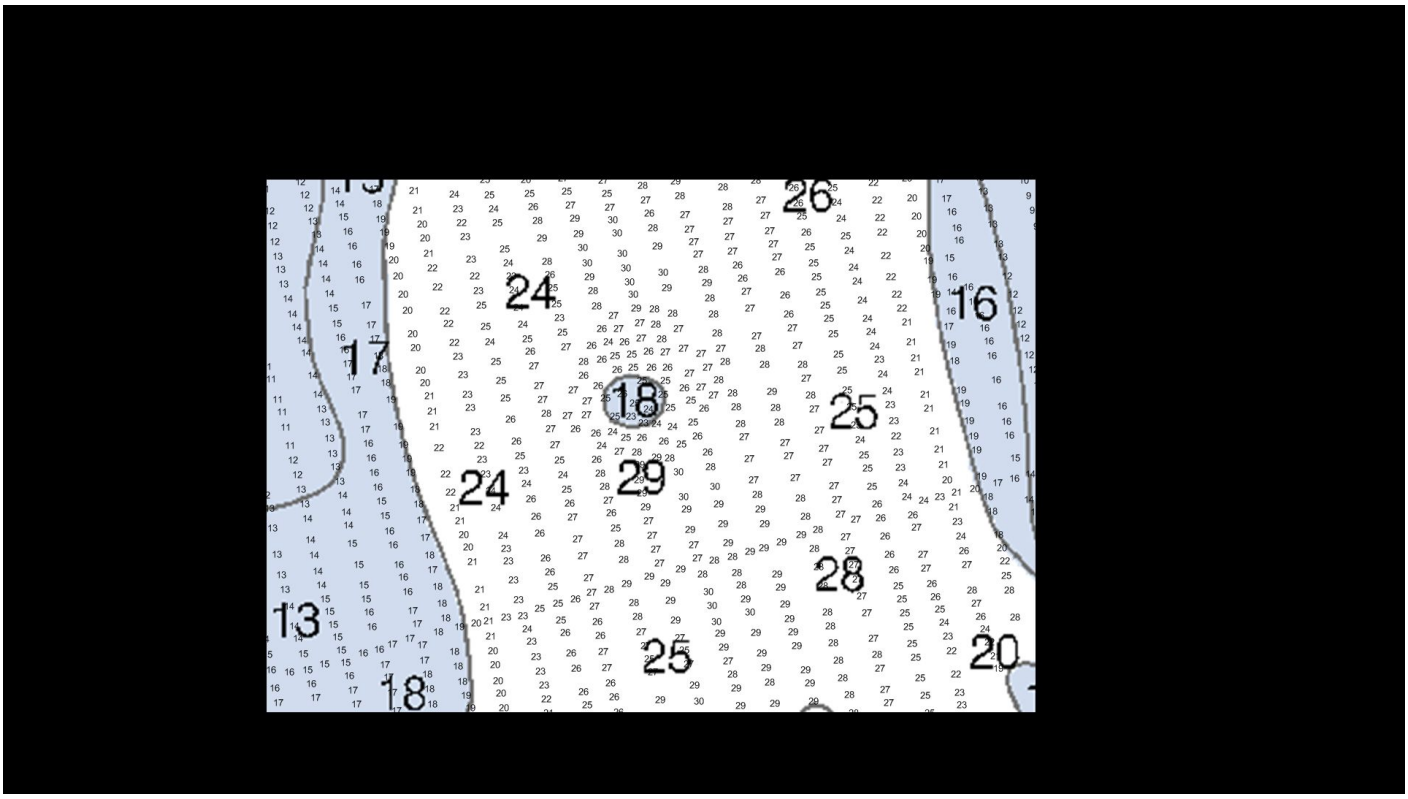


Figure 37: 18 foot shoal

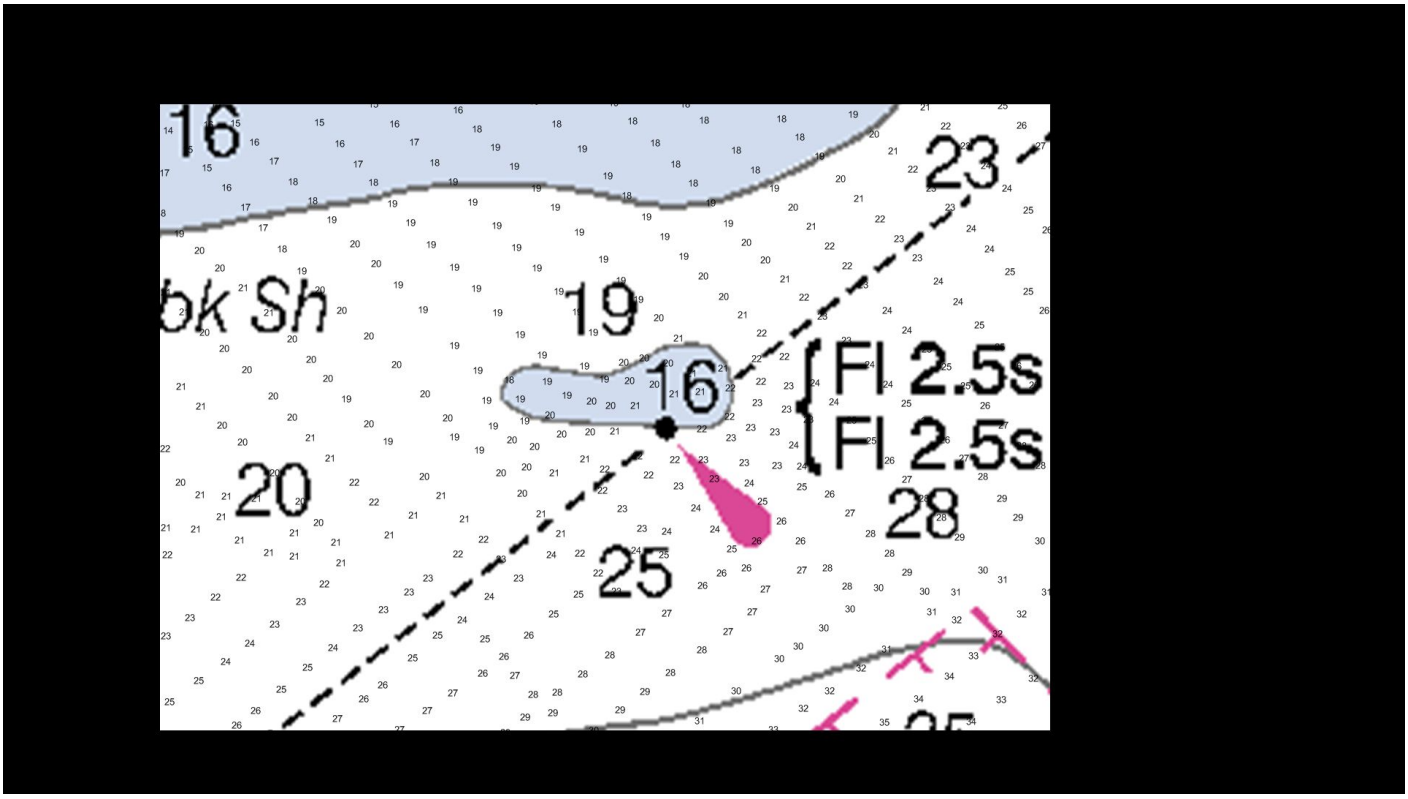


Figure 38: 16 foot shoal

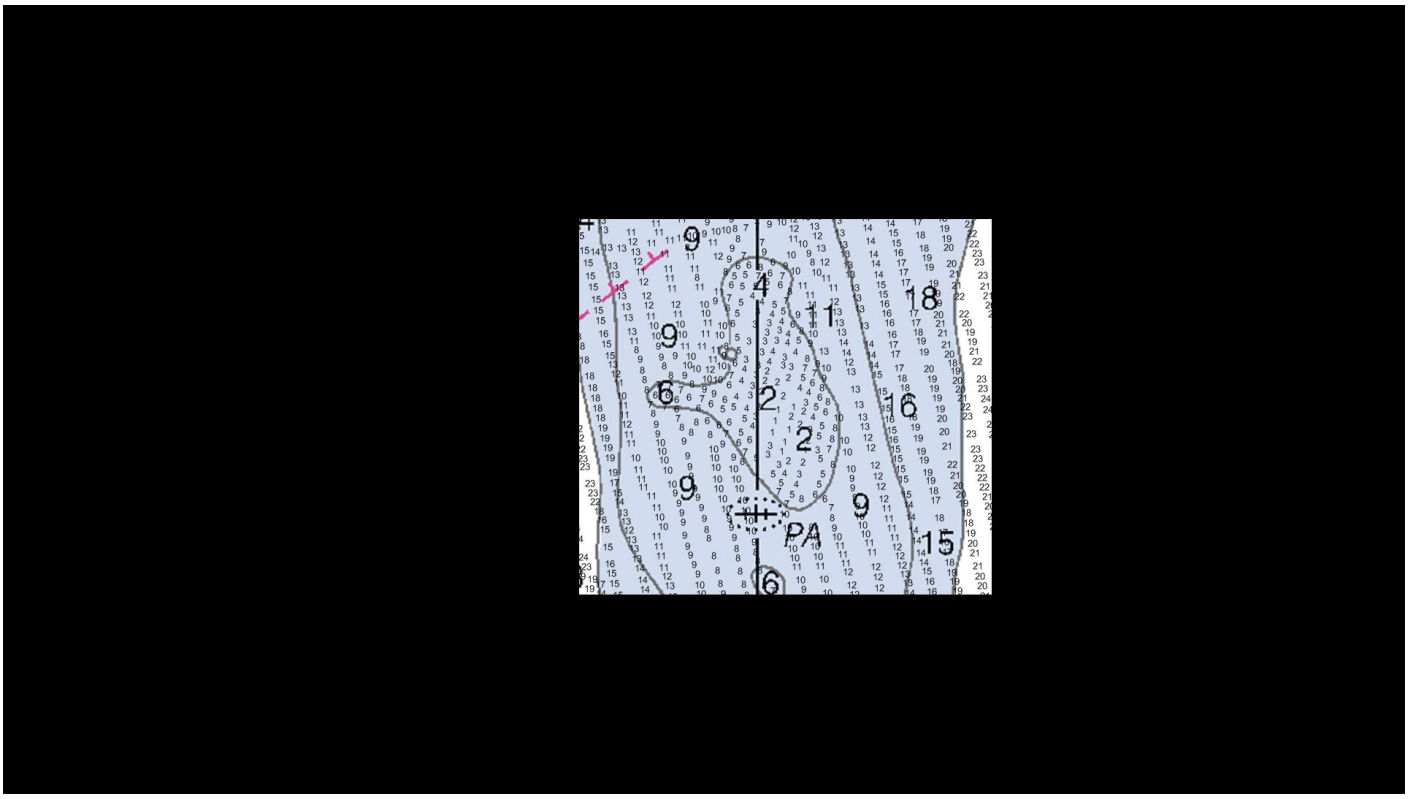


Figure 39: 2 foot shoal

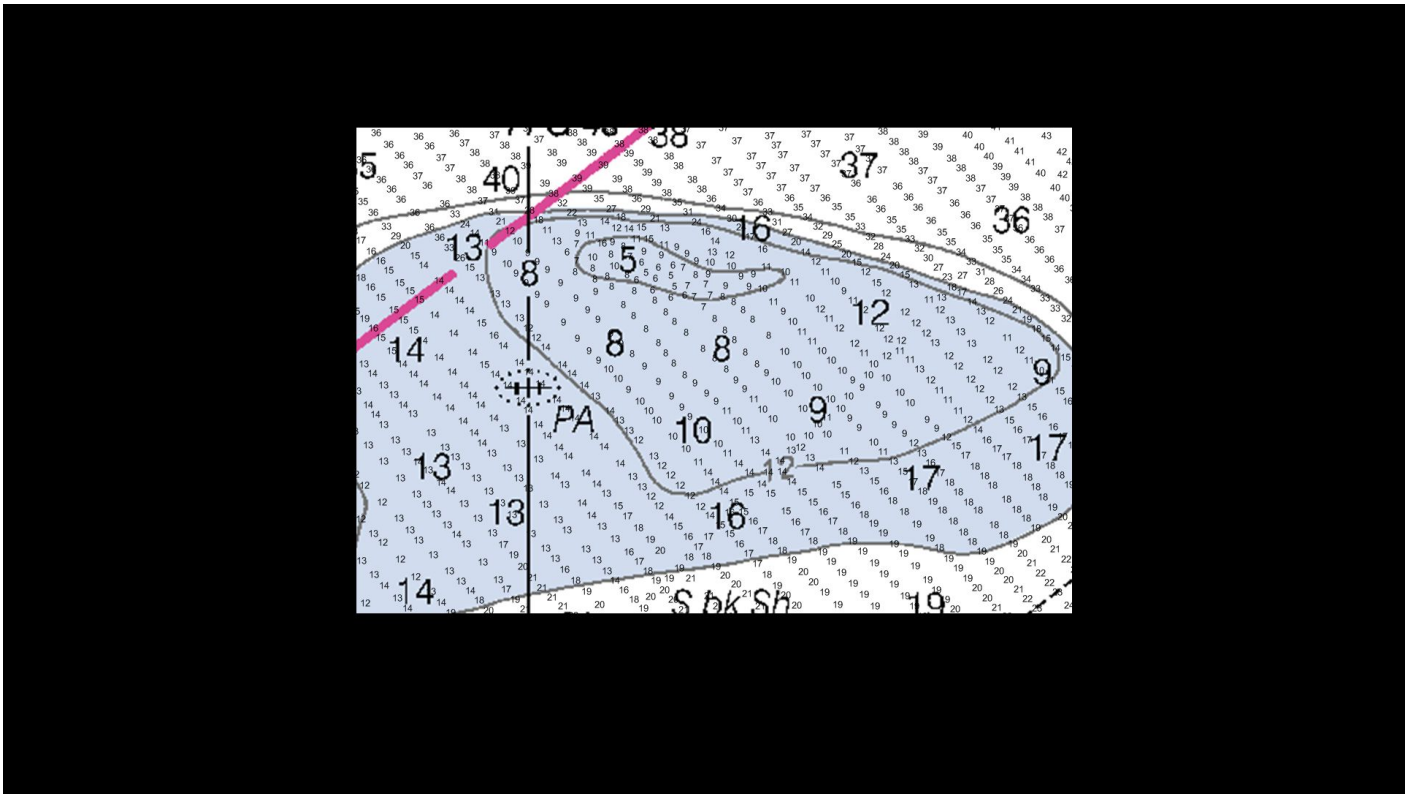


Figure 40: 5 foot shoal

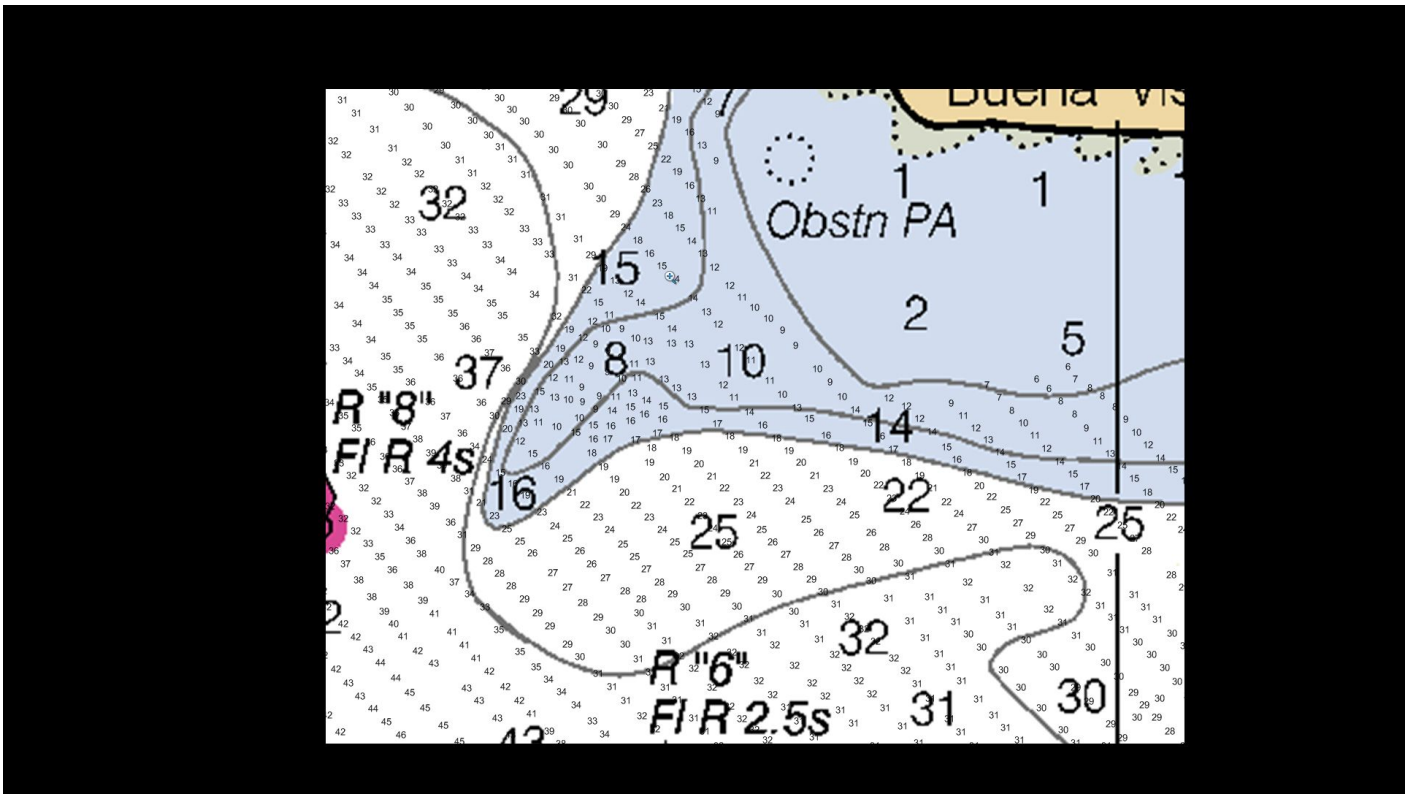


Figure 41: 8 foot shoal

D.1.9 Channels

The St Andrew Bay entrance channel was found to be in agreement with the USACE tabulated depths.

During compilation, shoaling to 33 ft. (the tabulated depth is 36 ft.) was noted at approximate position 30-07-52N, 85-42-56W. The Army Corps of Engineers was noted of the shoal depths.

D.1.10 Bottom Samples

Bottom samples were acquired at all charted labels of bottom characteristics. There was excellent agreement with the charted bottom characteristics. A charted characteristic at 85 41 48.7 N lat, 30 09 45.9 W lon. is mis-labeled as "f bk S". This label should be f bk Sh.

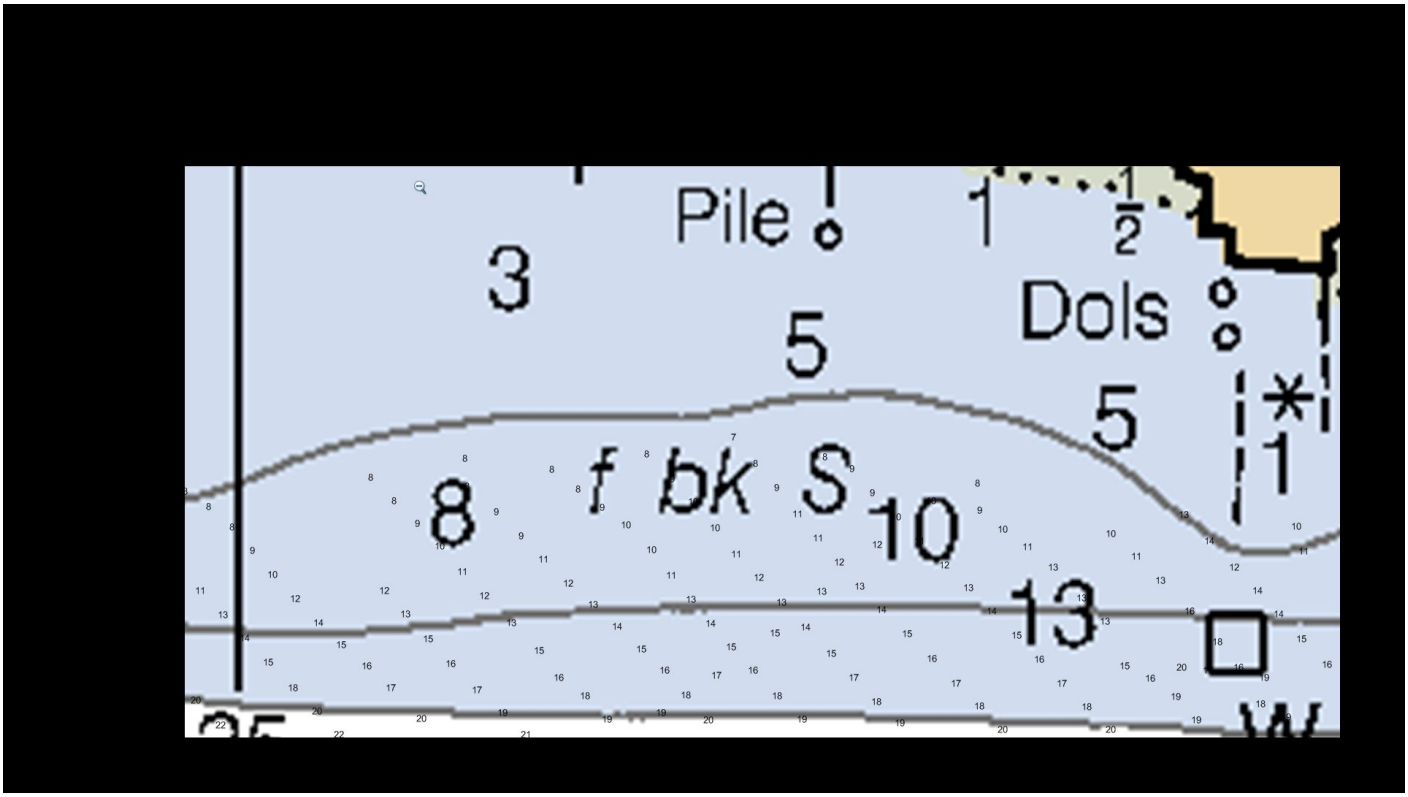


Figure 42: Mis-labeled bottom Sample

The mis-labeled bottom type was recommended to be deleted in the chart update product and a bottom type from the survey charted in the vicinity.

D.2 Additional Results

D.2.1 Shoreline

Shoreline was not assigned in the Hydrographic Survey Project Instructions or Statement of Work.

The project instructions required Limited Shoreline Verification which was conducted by the Field Unit.

D.2.2 Prior Surveys

No prior survey comparisons exist for this survey.

D.2.3 Aids to Navigation

Aids to navigation (ATONs) exist for this survey, but were not investigated.

D.2.4 Overhead Features

No overhead features exist for this survey.

D.2.5 Submarine Features

No submarine features exist for this survey.

Four uncharted submerged cable features and two uncharted pipeline features were found during office processing and reported to NOAA's Nautical Data Branch. All the features were in the vicinity of the entrance to St. Andrews Bay and not considered dangerous to navigation. The survey area also contains one charted sewer which was not addressed by the survey and recommended to be retained in the chart update product.

D.2.6 Ferry Routes and Terminals

No ferry routes or terminals exist for this survey.

D.2.7 Platforms

No platforms exist for this survey.

D.2.8 Significant Features

No significant features exist for this survey.

D.2.9 Construction and Dredging

No present or planned construction or dredging exist within the survey limits.

D.2.10 New Survey Recommendation

The area shown as St Andrew Bay East Pass has closed completely and there are no charted soundings in the vicinity. This area has very heavy recreational traffic and its' depiction of a non-existent pass is potentially dangerous.

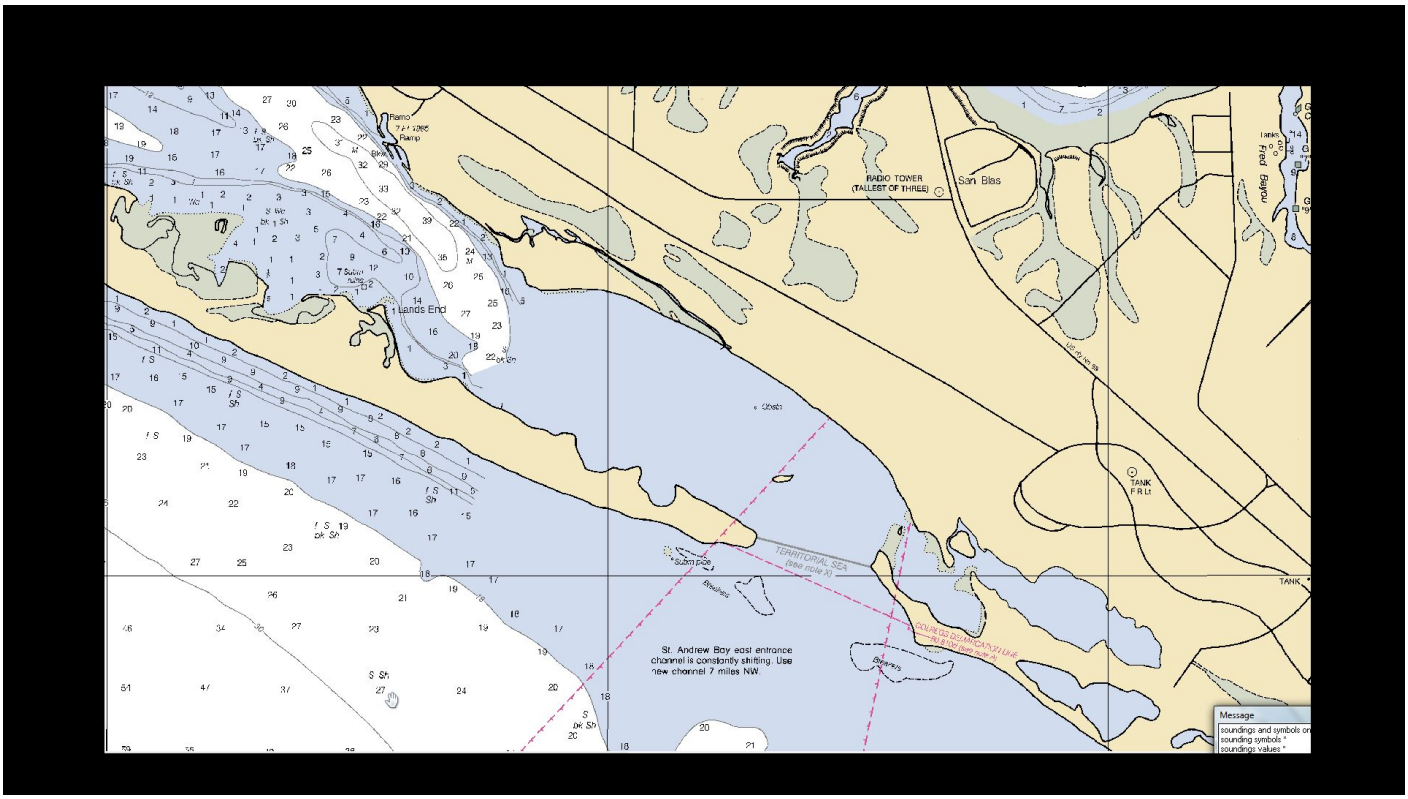


Figure 43: St Andrew Bay East Pass

The closed entrance to St. Andrew East Pass was reported to NOAA's Nautical Data Branch during compilation.

D.2.11 Inset Recommendation

No new insets are recommended for this area.

E. Approval Sheet

As Chief of Party, Field operations for this hydrographic survey were conducted under my direct supervision, with frequent personal checks of progress and adequacy. I have reviewed the attached survey data and reports.

All field sheets, this Descriptive Report, and all accompanying records and data are approved. All records are forwarded for final review and processing to the Processing Branch.

The survey data meets or exceeds requirements as set forth in the NOS Hydrographic Surveys and Specifications Deliverables Manual, Field Procedures Manual, Letter Instructions, and all HSD Technical Directives. These data are adequate to supersede charted data in their common areas. This survey is complete and no additional work is required with the exception of deficiencies noted in the Descriptive Report.

Reviewers of sheet H12357 will find deliverables both in Caris BdB and Pydro PSS formats.THE PSS CAN BE USED AS A SOURCE FOR INFORMATION, BUT THE FINAL DELIVERABLE (H12357_FFF.OOO) IS IN BdB FORMAT. Pydro was still used for deliverables like feature reports and crosslines checkpoints agreements.

Approver Name	Approver Title	Approval Date	Signature
Mark J. McMann	Team Lead NRT-1	02/05/2014	Digitally signed by Mark J McMann DN: cn=Mark J McMann, o=NOAA, ou=NRT-1, email=mark.mcmann@noaa.gov, c=US Date: 2014.08.07 09:18:05 -05'00'

F. Table of Acronyms

Acronym	Definition
AHB	Atlantic Hydrographic Branch
AST	Assistant Survey Technician
ATON	Aid to Navigation
AWOIS	Automated Wreck and Obstruction Information System
BAG	Bathymetric Attributed Grid
BASE	Bathymetry Associated with Statistical Error
CO	Commanding Officer
CO-OPS	Center for Operational Products and Services
CORS	Continually Operating Reference Staiton
CTD	Conductivity Temperature Depth
CEF	Chart Evaluation File
CSF	Composite Source File
CST	Chief Survey Technician
CUBE	Combined Uncertainty and Bathymetry Estimator
DAPR	Data Acquisition and Processing Report
DGPS	Differential Global Positioning System
DP	Detached Position
DR	Descriptive Report
DTON	Danger to Navigation
ENC	Electronic Navigational Chart
ERS	Ellipsoidal Referenced Survey
ERZT	Ellipsoidally Referenced Zoned Tides
FFF	Final Feature File
FOO	Field Operations Officer
FPM	Field Procedures Manual
GAMS	GPS Azimuth Measurement Subsystem
GC	Geographic Cell
GPS	Global Positioning System
HIPS	Hydrographic Information Processing System
HSD	Hydrographic Surveys Division
HSSD	Hydrographic Survey Specifications and Deliverables

Acronym	Definition
HSTP	Hydrographic Systems Technology Programs
HSX	Hypack Hysweep File Format
HTD	Hydrographic Surveys Technical Directive
HVCR	Horizontal and Vertical Control Report
HVF	HIPS Vessel File
IHO	International Hydrographic Organization
IMU	Inertial Motion Unit
ITRF	International Terrestrial Reference Frame
LNM	Local Notice to Mariners
LNM	Linear Nautical Miles
MCD	Marine Chart Division
MHW	Mean High Water
MLLW	Mean Lower Low Water
NAD 83	North American Datum of 1983
NAIP	National Agriculture and Imagery Program
NALL	Navigable Area Limit Line
NM	Notice to Mariners
NMEA	National Marine Electronics Association
NOAA	National Oceanic and Atmospheric Administration
NOS	National Ocean Service
NRT	Navigation Response Team
NSD	Navigation Services Division
OCS	Office of Coast Survey
OMAO	Office of Marine and Aviation Operations (NOAA)
OPS	Operations Branch
MBES	Multibeam Echosounder
NWLON	National Water Level Observation Network
PDBS	Phase Differencing Bathymetric Sonar
PHB	Pacific Hydrographic Branch
POS/MV	Position and Orientation System for Marine Vessels
PPK	Post Processed Kinematic
PPP	Precise Point Positioning
PPS	Pulse per second

Acronym	Definition
PRF	Project Reference File
PS	Physical Scientist
PST	Physical Science Technician
RNC	Raster Navigational Chart
RTK	Real Time Kinematic
SBES	Singlebeam Echosounder
SBET	Smooth Best Estimate and Trajectory
SNM	Square Nautical Miles
SSS	Side Scan Sonar
ST	Survey Technician
SVP	Sound Velocity Profiler
TCARI	Tidal Constituent And Residual Interpolation
TPE	Total Porpagated Error
TPU	Topside Processing Unit
USACE	United States Army Corps of Engineers
USCG	United Stated Coast Guard
UTM	Universal Transverse Mercator
XO	Executive Officer
ZDA	Global Positiong System timing message
ZDF	Zone Definition File

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

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE : February 4, 2014

HYDROGRAPHIC BRANCH: Pacific
HYDROGRAPHIC PROJECT: S-J910-NRT1-2011
HYDROGRAPHIC SHEET: H12357

LOCALITY: Panama City, FL
TIME PERIOD: September 12, 2011 - January 8, 2014

TIDE STATION USED: 872-9108 Panama City, FL
Lat. 30° 9.1'N Long. 85° 40.0' W
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 0.395 meters

TIDE STATION USED: 872-9210 Panama City Beach, FL
Lat. 30° 12.8' N Long. 85° 52.7' W
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 0.395 meters

REMARKS: RECOMMENDED ZONING
Use zone(s) identified as: CGM1, PC1, PC2, PC3, PC4, PC5, PC19, PC21, PC22, PC23, PC24, PC25, PC26 & PC37

Refer to attachments for zoning information.

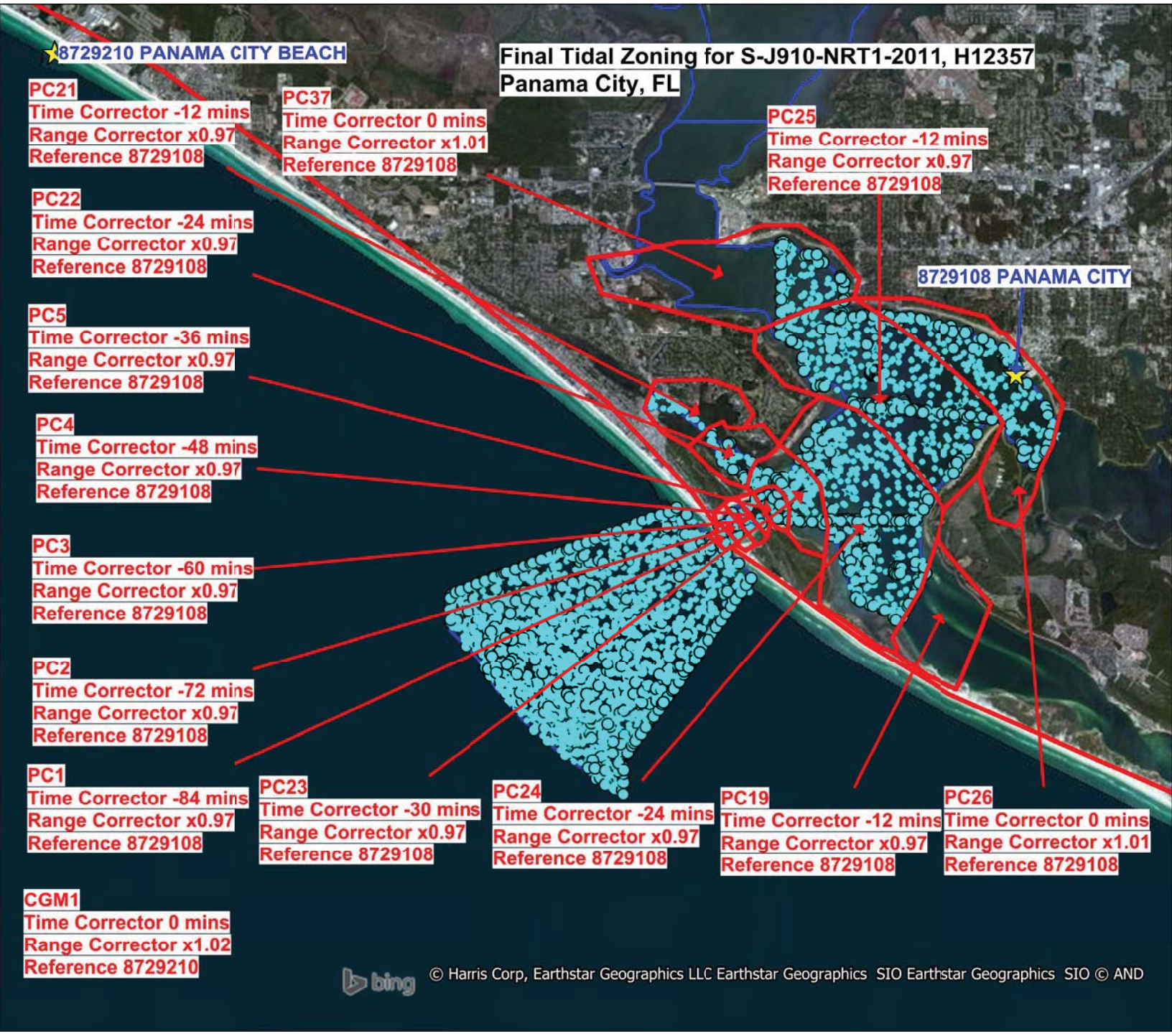
Note 1: Provided time series data are tabulated in metric units (meters), relative to MLLW and on Greenwich Mean Time on the 1983-2001 National Tidal Datum Epoch (NTDE).

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

HOVIS.GERALD.THOMAS.1365860250

Digitally signed by HOVIS.GERALD.THOMAS.1365860250
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=OTHER, cn=HOVIS.GERALD.THOMAS.1365860250
Date: 2014.02.04 08:19:34 -05'00'

CHIEF, PRODUCTS AND SERVICES BRANCH


Final Tidal Zoning for S-J910-NRT1-2011, H12357
Panama City, FL
8729210 PANAMA CITY BEACH
8729108 PANAMA CITY
PC21
Time Corrector -12 mins
Range Corrector x0.97
Reference 8729108
PC37
Time Corrector 0 mins
Range Corrector x1.01
Reference 8729108
PC25
Time Corrector -12 mins
Range Corrector x0.97
Reference 8729108
PC22
Time Corrector -24 mins
Range Corrector x0.97
Reference 8729108
PC5
Time Corrector -36 mins
Range Corrector x0.97
Reference 8729108
PC4
Time Corrector -48 mins
Range Corrector x0.97
Reference 8729108
PC3
Time Corrector -60 mins
Range Corrector x0.97
Reference 8729108
PC2
Time Corrector -72 mins
Range Corrector x0.97
Reference 8729108
PC1
Time Corrector -84 mins
Range Corrector x0.97
Reference 8729108
PC23
Time Corrector -30 mins
Range Corrector x0.97
Reference 8729108
PC24
Time Corrector -24 mins
Range Corrector x0.97
Reference 8729108
PC19
Time Corrector -12 mins
Range Corrector x0.97
Reference 8729108
PC26
Time Corrector 0 mins
Range Corrector x1.01
Reference 8729108
CGM1
Time Corrector 0 mins
Range Corrector x1.02
Reference 8729210
bing
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H12357_DTON_Report_1

Registry Number: H12357
State: Florida
Locality: Panama City
Sub-locality:
Project Number: S-J910-NRT1-11
Survey Date: 08/27/2013

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11391	24th	12/01/2005	1:25,000 (11391_1)	[L]NTM: ?
11390	24th	08/01/2007	1:40,000 (11390_1)	USCG LNM: 5/31/2011 (6/21/2011) NGA NTM: 12/12/2009 (7/2/2011)
11389	33rd	07/01/2005	1:80,000 (11389_1)	[L]NTM: ?
11360	43rd	11/01/2008	1:456,394 (11360_1)	[L]NTM: ?
1115A	43rd	11/01/2008	1:456,394 (1115A_1)	[L]NTM: ?
11006	32nd	08/01/2005	1:875,000 (11006_1)	[L]NTM: ?
411	52nd	09/01/2007	1:2,160,000 (411_1)	[L]NTM: ?

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

Features

No.	Name	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	537/115 11.2 ft Unknown Obstruction Uncharted	Obstruction	3.42 m	30° 09' 14.9" N	085° 40' 08.2" W	---
1.2	672/148 7.6 ft Obstruction Uncharted	Obstruction	2.33 m	30° 10' 11.4" N	085° 42' 19.3" W	---

1 - Dangers To Navigation

1.1) Profile/Beam 537/115 / 001_1604

DANGER TO NAVIGATION

Survey Summary

Survey Position:	30° 09' 14.9" N, 085° 40' 08.2" W
Least Depth:	3.42 m (= 11.22 ft = 1.870 fm = 1 fm 5.22 ft)
TPU (±1.96σ):	**THU (TPEh)** ±1.962 m ; **TVU (TPEv)** ±0.239 m
Timestamp:	2013-239.16:04:52.854 (08/27/2013)
Survey Line:	h12357 / s3001_reson8125 / 2013-239 / 001_1604
Profile/Beam:	537/115
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Danger to Navigation. The feature was located with side scan sonar and developed using a multibeam echosounder. According to the data, the feature is an obstruction 5.4 m long and 5.2 m wide.

Feature Correlation

Source	Feature	Range	Azimuth	Status
001_1604	537/115	0.00	000.0	Primary
pc110921165100	0001	4.13	216.4	Secondary (grouped)
pc111101175200	0001	8.29	159.0	Secondary (grouped)

Hydrographer Recommendations

Recommend charting a sounding on an obstruction at the position with current survey depths.

Cartographically-Rounded Depth (Affected Charts):

11ft (11391_1, 11390_1, 11389_1)

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

S-57 Data

Geo object 1:	Obstruction (OBSTRN)
Attributes:	CATOBS - 1:snag / stump
	EXPSOU - 2:shoaler than range of depth of the surrounding depth area

QUASOU - 1:depth known

SORDAT - 20131022

SORIND - US,US,graph,H12357

STATUS - 1:permanent

TECSOU - 3:found by multi-beam

VALSOU - 3.420 m

WATLEV - 3:always under water/submerged

Office Notes

Concur.

1.2) Profile/Beam 672/148 / 004_1518

DANGER TO NAVIGATION

Survey Summary

Survey Position:	30° 10' 11.4" N, 085° 42' 19.3" W
Least Depth:	2.33 m (= 7.64 ft = 1.274 fm = 1 fm 1.64 ft)
TPU (±1.96σ):	**THU (TPEh)** ±1.961 m ; **TVU (TPEv)** ±0.239 m
Timestamp:	2013-239.15:18:40.461 (08/27/2013)
Survey Line:	h12357 / s3001_reson8125 / 2013-239 / 004_1518
Profile/Beam:	672/148
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Danger to Navigation. Loose Debris near entrance of St Andrews Marina.

The feature was located with side scan sonar and developed using a multibeam echosounder. According to the data, the feature is an obstruction 7.5 m long and 2.3 m wide.

Feature Correlation

Source	Feature	Range	Azimuth	Status
004_1518	672/148	0.00	000.0	Primary
20120927150104	0001	4.76	315.9	Secondary (grouped)

Hydrographer Recommendations

Recommend charting a sounding an obstruction at the position with current survey depths.

Cartographically-Rounded Depth (Affected Charts):

7ft (11391_1, 11390_1, 11389_1)

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

S-57 Data

Geo object 1:	Obstruction (OBSTRN)
Attributes:	EXPSOU - 2:shoaler than range of depth of the surrounding depth area
	NATCON - 3:loose boulders

QUASOU - 1:depth known

SORDAT - 20131022

SORIND - US,US,graph,H12357

STATUS - 1:permanent

TECSOU - 3:found by multi-beam

VALSOU - 2.329 m

WATLEV - 3:always under water/submerged

Office Notes

Concur

H12357 AWOIS and Wreck Report

Registry Number: H12357
State: Florida
Locality: Panama City
Sub-locality: Approach and St. Andrews Bay
Project Number: S-J910-NRT1-11
Survey Dates: 01/01/1981 - 01/06/2014

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
11391	25th	01/01/2013	1:25,000 (11391_1)	USCG LNM: 11/11/2014 (11/11/2014) NGA NTM: 12/12/2009 (11/29/2014)
11390	24th	08/01/2007	1:40,000 (11390_1)	[L]NTM: ?
11389	33rd	07/01/2005	1:80,000 (11389_1)	[L]NTM: ?
11360	43rd	11/01/2008	1:456,394 (11360_1)	[L]NTM: ?
1115A	43rd	11/01/2008	1:456,394 (1115A_1)	[L]NTM: ?
11006	32nd	08/01/2005	1:875,000 (11006_1)	[L]NTM: ?
411	52nd	09/01/2007	1:2,160,000 (411_1)	[L]NTM: ?

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

Features

No.	Feature Type	Survey Depth	Survey Latitude	Survey Longitude
1.1	GP	[None]	30° 08' 25.6" N	085° 44' 02.9" W
1.2	GP	[None]	30° 08' 06.0" N	085° 43' 53.7" W
1.3	GP	[None]	30° 07' 19.8" N	085° 43' 50.5" W
1.4	GP	[None]	30° 08' 15.9" N	085° 43' 47.2" W
1.5	GP	[None]	30° 07' 32.1" N	085° 43' 45.5" W
1.6	GP	[None]	30° 07' 13.5" N	085° 43' 45.0" W
1.7	GP	[None]	30° 07' 08.0" N	085° 43' 44.3" W
1.8	GP	[None]	30° 07' 54.0" N	085° 43' 36.0" W
1.9	GP	[None]	30° 07' 45.9" N	085° 43' 28.5" W
1.10	Wreck	4.14 m	30° 07' 49.5" N	085° 43' 28.5" W

1.11	GP	[None]	30° 07' 45.5" N	085° 43' 28.3" W
1.12	GP	[None]	30° 07' 44.7" N	085° 43' 20.0" W
1.13	GP	[None]	30° 07' 44.7" N	085° 43' 20.0" W
1.14	GP	[None]	30° 07' 44.7" N	085° 43' 11.7" W
1.15	GP	[None]	30° 09' 17.6" N	085° 43' 06.4" W
1.16	GP	[None]	30° 09' 28.7" N	085° 42' 54.7" W
1.17	GP	[None]	30° 09' 26.2" N	085° 42' 54.6" W
1.18	GP	[None]	30° 07' 15.0" N	085° 42' 42.0" W
1.19	Wreck	3.53 m	30° 08' 21.0" N	085° 42' 33.3" W
1.20	GP	[None]	30° 08' 48.0" N	085° 42' 24.0" W
1.21	GP	[None]	30° 09' 55.0" N	085° 42' 15.0" W
1.22	GP	[None]	30° 07' 00.7" N	085° 41' 59.7" W
1.23	GP	[None]	30° 08' 00.7" N	085° 41' 59.6" W
1.24	GP	[None]	30° 09' 49.1" N	085° 41' 36.2" W
1.25	GP	[None]	30° 08' 54.0" N	085° 41' 06.0" W
1.26	GP	[None]	30° 09' 18.7" N	085° 40' 10.7" W
1.27	GP	[None]	30° 08' 27.0" N	085° 39' 47.0" W
1.28	GP	[None]	30° 09' 03.7" N	085° 39' 37.7" W
1.29	GP	[None]	30° 09' 13.7" N	085° 39' 24.7" W
1.30	GP	[None]	30° 09' 26.1" N	085° 39' 23.2" W
1.31	Wreck	5.64 m	30° 07' 02.0" N	085° 42' 13.9" W
1.32	Wreck	2.81 m	30° 06' 44.1" N	085° 42' 09.5" W
2.1	Wreck	18.05 m	30° 05' 24.2" N	085° 45' 55.8" W
2.2	Wreck	12.73 m	30° 07' 40.4" N	085° 43' 08.7" W
2.3	Wreck	7.97 m	30° 08' 14.4" N	085° 42' 29.2" W
2.4	Wreck	[None]	30° 09' 59.3" N	085° 42' 25.5" W
2.5	Wreck	4.33 m	30° 06' 55.8" N	085° 42' 10.3" W
2.6	Wreck	3.57 m	30° 06' 37.7" N	085° 42' 08.0" W
2.7	Wreck	2.61 m	30° 07' 14.9" N	085° 41' 56.3" W
2.8	Wreck	3.43 m	30° 07' 30.0" N	085° 41' 55.2" W
2.9	Wreck	4.31 m	30° 06' 54.2" N	085° 41' 21.1" W

1 - Charted Features

1.1) AWOIS 3145

Survey Summary

Survey Position:	30° 08' 25.6" N, 085° 44' 02.9" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047512 00001(02260000B9980001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

AWOIS 3145. Type: OBSTRUCTION, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: S2 ES MB

Submerged pile confirmed in SSS. No multibeam coverage.

Hydrographer Recommendations

Retain obstruction.

Office Notes

Concur

1.2) AWOIS 14921

Survey Summary

Survey Position:	30° 08' 06.0" N, 085° 43' 53.7" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047521 00001(02260000B9A10001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 14921. Type: UNKNOWN, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: S2 ES MB

No evidence of wreck found in 200% SSS.

Hydrographer Recommendations

Delete wreck.

Office Notes

Do not concur. SSS shows evidence of a feature at the location. The wreck was retained as a submerged dangerous wreck.

1.3) AWOIS 3136

Survey Summary

Survey Position:	30° 07' 19.8" N, 085° 43' 50.5" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047540 00001(02260000B9B40001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 3136. Type: OBSTRUCTION, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: S2 ES MB

Evidence of this jetty in MBES. Only partial coverage via MBES, though the depths do not appear to be navigationally significant.

Hydrographer Recommendations

Retain

Office Notes

Concur. Obstruction is part of submerged jetty ruins. Retain.

1.4) AWOIS 14920

Survey Summary

Survey Position:	30° 08' 15.9" N, 085° 43' 47.2" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047520 00001(02260000B9A00001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 14920. Type: WAVE GUIDE, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: VS S2 ES MB

Entire AWOIS # 14920 radius developed with 200%SSS coverage. No wreck detected within AWOIS radius in SSS data.

Hydrographer Recommendations

Delete wreck

Office Notes

Concur. Delete wreck PA.

1.5) AWOIS 3137

Survey Summary

Survey Position:	30° 07' 32.1" N, 085° 43' 45.5" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047541 00001(02260000B9B50001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 3137. Type: OBSTRUCTION, Itemstatus: ASSIGNED, Searchtype: FULL, Technique:

Boulders from jetty. Contacts detected in 200% SSS coverage. Contacts investigated using MBES. Item determined to be AWOIS #3137, Subm. Rk.

Hydrographer Recommendations

Retain AWOIS.

Office Notes

Concur. The AWOIS item (submerged rocks) are part of jetty ruins which were retained.

1.6) AWOIS 3135

Survey Summary

Survey Position:	30° 07' 13.5" N, 085° 43' 45.0" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047539 00001(02260000B9B30001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 3135. Type: OBSTRUCTION, Itemstatus: ASSIGNED, Searchtype: FULL, Technique:

This ruined SLCONS still exists, though the extents have changed. The Assigned AWOIS item refers to this SLCONS. MBES data is adequate to capture least depths of the seafloor over this area.

Hydrographer Recommendations

Recommend retain with new extents or delete.

Office Notes

The extents of the jetty have been updated. The new jetty ruins terminate at approximate position: 30-07-14N, 80-43-45W.

1.7) AWOIS 3128

Survey Summary

Survey Position:	30° 07' 08.0" N, 085° 43' 44.3" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047538 00001(02260000B9B20001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 3128. Type: UNKNOWN, Itemstatus: COMPLETED, Searchtype: INFORMATION, Technique:

Not Investigated.

Hydrographer Recommendations

Retain wreck.

Office Notes

Concur.

1.8) AWOIS 14922

Survey Summary

Survey Position:	30° 07' 54.0" N, 085° 43' 36.0" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047522 00001(02260000B9A20001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 14922. Type: UNKNOWN, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: S2 ES MB

Charted Wreck. Contact detected in 200% SSS coverage. Contact investigated using MBES. Item determined to be AWOIS 14922, Wreck.

Additional Notes:

100% MBES coverage of area could not be obtained because of local floating bait shop.

Multiple debris and biological features found in area, inside and outside of depicted Awois radius.

Hydrographer Recommendations

Update wreck.

Office Notes

Concur with clarificaton. The wreck was located with MB south of the charted wreck PA. Chart wreck with a new position and depth as follows:
Position: 30-07-52.9N, 085-43-36.6 W
Depth: 5.702 ft.

1.9) AWOIS 4670

Survey Summary

Survey Position:	30° 07' 45.9" N, 085° 43' 28.5" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047518 00001(02260000B99E0001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 4670. Type: OBSTRUCTION, Itemstatus: COMPLETED, Searchtype: INFORMATION, Technique:

Not investigated.

Hydrographer Recommendations

[None]

Office Notes

Retain. There is one charted piling in the vicinity of AWOIS items 4670 and 3150 which both note piles. It is unclear which AWOIS item is the charted pile.

1.10) Wreck - AWOIS 2896

Survey Summary

Survey Position:	30° 07' 49.5" N, 085° 43' 28.5" W
Least Depth:	4.14 m (= 13.58 ft = 2.263 fm = 2 fm 1.58 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2014-006.00:00:00.000 (01/06/2014)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047543 00001(02260000B9B70001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 2896. Type: UNKNOWN, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: MB S2 ES

Charted WRECK. Contacts detected in 200% SSS coverage. Contacts investigated using MBES. Item determined to be AWOIS 2896, Unknown Obstruction.

Additional Notes:

-100% MBES coverage of area could not be obtained because of local floating bait shop.

Hydrographer Recommendations

Update wreck with current survey least depth.

Cartographically-Rounded Depth (Affected Charts):

13ft (11391_1, 11390_1, 11389_1)

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

Office Notes

Concur

1.11) AWOIS 3150

Survey Summary

Survey Position:	30° 07' 45.5" N, 085° 43' 28.3" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047513 00001(02260000B9990001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 3150. Type: OBSTRUCTION, Itemstatus: COMPLETED, Searchtype: INFORMATION, Technique:

Not investigated.

Hydrographer Recommendations

Retain pile.

Office Notes

Retain. There is one charted Piling in the vicinity of AWOIS item 4670 and 3150 and it is unclear which AWOIS item is the charted pile.

1.12) AWOIS 2894

Survey Summary

Survey Position:	30° 07' 44.7" N, 085° 43' 20.0" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047508 00001(02260000B9940001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 2894. Type: OBSTRUCTION, Itemstatus: COMPLETED, Searchtype: INFORMATION, Technique:

Not investigated

Hydrographer Recommendations

Retain

Office Notes

Not investigated. Retain.

1.13) AWOIS 4669

Survey Summary

Survey Position:	30° 07' 44.7" N, 085° 43' 20.0" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047517 00001(02260000B99D0001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 4669. Type: OBSTRUCTION, Itemstatus: COMPLETED, Searchtype: INFORMATION, Technique:

Not investigated

Hydrographer Recommendations

Retain

Office Notes

Concur. Retain.

1.14) AWOIS 3157

Survey Summary

Survey Position:	30° 07' 44.7" N, 085° 43' 11.7" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047514 00001(02260000B99A0001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 3157. Type: OBSTRUCTION, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: S2 ES MB

Entire AWOIS #3157 radius developed with 200%SSS coverage. A 20 cm contact can be seen in the sss coverage.

Hydrographer Recommendations

Delete pile

Office Notes

Concur. The compiler did not see the 20 cm. contact in the SSS coverage. Delete submerged pile.

1.15) AWOIS 4672

Survey Summary

Survey Position:	30° 09' 17.6" N, 085° 43' 06.4" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047519 00001(02260000B99F0001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 4672. Type: OBSTRUCTION, Itemstatus: COMPLETED, Searchtype: INFORMATION, Technique:

Not investigated

Hydrographer Recommendations

Retain pile

Office Notes

Concur

1.16) AWOIS 3164

Survey Summary

Survey Position:	30° 09' 28.7" N, 085° 42' 54.7" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047515 00001(02260000B99B0001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 3164. Type: OBSTRUCTION, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: S2 ES MB

Entire AWOIS # 3164 radius developed with 200%SSS coverage. Multiple rock contacts seen in radius, but no significant contact detected within AWOIS radius in SSS data.

Hydrographer Recommendations

Recommend removal of Awois #3164.

Office Notes

Concur. Delete submeged pile.

1.17) AWOIS 3165

Survey Summary

Survey Position:	30° 09' 26.2" N, 085° 42' 54.6" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047516 00001(02260000B99C0001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 3165. Type: OBSTRUCTION, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: VS S2 ES MB

SAR: Review of data indicates an object at this location. Shadow analysis indicates 0.6m height off the bottom. However, that assumes a flat sea surface and this is clearly a sloped location. Survey data is inadequate to disprove this item.

Hydrographer Recommendations

Retain Pile

Office Notes

Concur

1.18) AWOIS 14923

Survey Summary

Survey Position:	30° 07' 15.0" N, 085° 42' 42.0" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047537 00001(02260000B9B10001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 14923. Type: DERELICT, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: VS S2 ES MB

Not investigated

Hydrographer Recommendations

Retian Wreck PA

Office Notes

Concur

1.19) Wreck - AWOIS 14928

Survey Summary

Survey Position:	30° 08' 21.0" N, 085° 42' 33.3" W
Least Depth:	3.53 m (= 11.58 ft = 1.931 fm = 1 fm 5.58 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2014-006.00:00:00.000 (01/06/2014)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047545 00001(02260000B9B90001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 14928. Type: UNKNOWN, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: S2 ES MB

Charted Unknown Wreck. Contacts detected in 200% SSS coverage. Contacts investigated using MBES. Item determined to be AWOIS 14928.

Field investigations with local mariners returned more details about the wreck: Schooner type sailboat "Robert Joyce" sank in 2002. Length 96 ft.

Hydrographer Recommendations

Chart wreck with new location and depth.

Cartographically-Rounded Depth (Affected Charts):

11ft (11391_1, 11390_1, 11389_1)

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

Office Notes

Concur

1.20) AWOIS 14927

Survey Summary

Survey Position:	30° 08' 48.0" N, 085° 42' 24.0" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047523 00001(02260000B9A30001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 14927. Type: UNKNOWN, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: VS S2 ES MB

Not investigated

Hydrographer Recommendations

Retain wreck PA

Office Notes

Concur

1.21) AWOIS 14925

Survey Summary

Survey Position:	30° 09' 55.0" N, 085° 42' 15.0" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047526 00001(02260000B9A60001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 14925. Type: OBSTRUCTION, Itemstatus: COMPLETED, Searchtype: INFORMATION, Technique:

Not investigated

Hydrographer Recommendations

Retain

Office Notes

Concur

1.22) AWOIS 14924

Survey Summary

Survey Position:	30° 07' 00.7" N, 085° 41' 59.7" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047534 00001(02260000B9AE0001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 14924. Type: UNKNOWN, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: S2 ES MB

Entire AWOIS #14924 radius developed with 200% SSS coverage. No contact detected within AWOIS radius in SSS data.

Hydrographer Recommendations

Delete wreck

Office Notes

Delete wreck.

1.23) AWOIS 14929

Survey Summary

Survey Position:	30° 08' 00.7" N, 085° 41' 59.6" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047525 00001(02260000B9A50001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 14929. History LNM 18/91-- USCG District 8 A submereged wreck charted at 30/09/00.7-85/41/59.7. (Entered CEH 7/2011) Type: UNKNOWN, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: S2 ES MB

None

Hydrographer Recommendations

None

Office Notes

Typo in Survey Position. The feature is charted at the position in the remarks. The feature was disporved with 200% SSS. Delete the wreck PA.

1.24) AWOIS 3154

Survey Summary

Survey Position:	30° 09' 49.1" N, 085° 41' 36.2" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047527 00001(02260000B9A70001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 3154. Type: OBSTRUCTION, Itemstatus: COMPLETED, Searchtype: INFORMATION, Technique:

Not investigated

Hydrographer Recommendations

Retain Dols

Office Notes

concur

1.25) AWOIS 14930

Survey Summary

Survey Position:	30° 08' 54.0" N, 085° 41' 06.0" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047528 00001(02260000B9A80001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 14930. Type: UNKNOWN, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: VS S2 ES MB

Entire AWOIS # 14930 radius developed with 200% SSS coverage. No contact detected within AWOIS radius in SSS data.

Hydrographer Recommendations

No evidence of AWOIS item. Delete wreck.

Office Notes

Concur

1.26) AWOIS 6922

Survey Summary

Survey Position:	30° 09' 18.7" N, 085° 40' 10.7" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047529 00001(02260000B9A90001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 6922. Type: OBSTRUCTION, Itemstatus: COMPLETED, Searchtype: INFORMATION, Technique:

Covered with 200% SSS.

Hydrographer Recommendations

No evidence of AWOIS item. Delete pier.

Office Notes

Concur

1.27) AWOIS 14931

Survey Summary

Survey Position:	30° 08' 27.0" N, 085° 39' 47.0" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047533 00001(02260000B9AD0001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 14931. Type: OBSTRUCTION, Itemstatus: ASSIGNED, Searchtype: FULL, Technique: S2 ES MB

Entire AWOIS #14931 radius developed with 200% SSS coverage. No contact detected within AWOIS radius in SSS data.

Hydrographer Recommendations

No evidence of AWOIS item. Delete.

Office Notes

Concur

1.28) AWOIS 6920

Survey Summary

Survey Position:	30° 09' 03.7" N, 085° 39' 37.7" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047530 00001(02260000B9AA0001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 6920. Type: OBSTRUCTION, Itemstatus: COMPLETED, Searchtype: INFORMATION, Technique:

Not investigated

Hydrographer Recommendations

Retain

Office Notes

Concur

1.29) AWOIS 6921

Survey Summary

Survey Position:	30° 09' 13.7" N, 085° 39' 24.7" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047531 00001(02260000B9AB0001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 6921. Type: OBSTRUCTION, Itemstatus: COMPLETED, Searchtype: INFORMATION, Technique:

Not investigated

Hydrographer Recommendations

Retain

Office Notes

Concur

1.30) AWOIS 14926

Survey Summary

Survey Position:	30° 09' 26.1" N, 085° 39' 23.2" W
Least Depth:	[None]
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	1981-001.00:00:00.000 (01/01/1981)
Dataset:	H12357_AWOIS.000
FOID:	US 0000047532 00001(02260000B9AC0001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

invreq: AWOIS 14926. Type: UNKNOWN, Itemstatus: COMPLETED, Searchtype: INFORMATION, Technique:

Not investigated

Hydrographer Recommendations

Retain

Office Notes

Concur

1.31) Wreck - AWOIS 2895

Survey Summary

Survey Position:	30° 07' 02.0" N, 085° 42' 13.9" W
Least Depth:	5.64 m (= 18.50 ft = 3.084 fm = 3 fm 0.50 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2014-006.00:00:00.000 (01/06/2014)
Dataset:	Wrecks.000
FOID:	US 0000057192 00001(02260000DF680001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Charted Unknown Wrecks. Contacts detected in 200% SSS coverage. Contacts investigated using MBES. Item determined to be AWOIS # 2895, Unknown.

Hydrographer Recommendations

Update Awois #2895 with current survey least depth.

Cartographically-Rounded Depth (Affected Charts):

18ft (11391_1, 11390_1, 11389_1)

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

Office Notes

Chart Wreck Area. The area contains three distict wrecks the least depth of which is 18.5 ft. The wreck area contains AWOIS item 2895.

1.32) Wreck - AWOIS 3131

Survey Summary

Survey Position:	30° 06' 44.1" N, 085° 42' 09.5" W
Least Depth:	2.81 m (= 9.24 ft = 1.539 fm = 1 fm 3.24 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2014-006.00:00:00.000 (01/06/2014)
Dataset:	Wrecks.000
FOID:	US 0000057193 00001(02260000DF690001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

Charted Unknown Obstruction detected in 200% SSS coverage. Contact investigated using MBES.

Hydrographer Recommendations

Update Awois #3131 perimeter to incorporate multiple debris and current survey least depth.

Cartographically-Rounded Depth (Affected Charts):

9ft (11391_1, 11390_1, 11389_1)

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

Office Notes

Chart Wreck Area. The area contains four distict wrecks the least depth of which is 9.2 ft. The wreck area contains AWOIS item 3131.

2 - New Features

2.1) Wreck

Survey Summary

Survey Position:	30° 05' 24.2" N, 085° 45' 55.8" W
Least Depth:	18.05 m (= 59.22 ft = 9.869 fm = 9 fm 5.22 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2014-006.00:00:00.000 (01/06/2014)
Dataset:	Wrecks.000
FOID:	US 0000057184 00001(02260000DF600001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

[None]

Hydrographer Recommendations

[None]

Cartographically-Rounded Depth (Affected Charts):

59ft (11391_1, 11390_1, 11389_1)

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

Office Notes

Charted wreck updated with new position and depth.

2.2) Wreck

Survey Summary

Survey Position:	30° 07' 40.4" N, 085° 43' 08.7" W
Least Depth:	12.73 m (= 41.76 ft = 6.959 fm = 6 fm 5.76 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2014-006.00:00:00.000 (01/06/2014)
Dataset:	Wrecks.000
FOID:	US 0000057183 00001(02260000DF5F0001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

[None]

Hydrographer Recommendations

[None]

Cartographically-Rounded Depth (Affected Charts):

42ft (11391_1, 11390_1, 11389_1)

7fm (1115A_1, 11360_1, 11006_1, 411_1)

Office Notes

Chart New Wreck

2.3) Wreck

Survey Summary

Survey Position:	30° 08' 14.4" N, 085° 42' 29.2" W
Least Depth:	7.97 m (= 26.16 ft = 4.360 fm = 4 fm 2.16 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2014-006.00:00:00.000 (01/06/2014)
Dataset:	Wrecks.000
FOID:	US 0000057191 00001(02260000DF670001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

[None]

Hydrographer Recommendations

[None]

Cartographically-Rounded Depth (Affected Charts):

26ft (11391_1, 11390_1, 11389_1)

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

Office Notes

Chart New Wreck

2.4) Wreck

Survey Summary

Survey Position: 30° 09' 59.3" N, 085° 42' 25.5" W

Estimated Depth: 27.0 ft.

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

Timestamp: 2014-006.00:00:00.000 (01/06/2014)

Dataset: Wrecks.000

FOID: US 0000057188 00001(02260000DF640001)

Charts Affected: 11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

[None]

Hydrographer Recommendations

[None]

Office Notes

Chart New Wreck PA. The wreck position and depth were estimated from SSS data.

2.5) Wreck

Survey Summary

Survey Position:	30° 06' 55.8" N, 085° 42' 10.3" W
Least Depth:	4.33 m (= 14.20 ft = 2.366 fm = 2 fm 2.20 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2014-006.00:00:00.000 (01/06/2014)
Dataset:	Wrecks.000
FOID:	US 0000057187 00001(02260000DF630001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

[None]

Hydrographer Recommendations

[None]

Cartographically-Rounded Depth (Affected Charts):

14ft (11391_1, 11390_1, 11389_1)

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

Office Notes

Chart New Wreck

2.6) Wreck

Survey Summary

Survey Position:	30° 06' 37.7" N, 085° 42' 08.0" W
Least Depth:	3.57 m (= 11.72 ft = 1.954 fm = 1 fm 5.72 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2014-006.00:00:00.000 (01/06/2014)
Dataset:	Wrecks.000
FOID:	US 0000057185 00001(02260000DF610001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

[None]

Hydrographer Recommendations

[None]

Cartographically-Rounded Depth (Affected Charts):

11ft (11391_1, 11390_1, 11389_1)

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

Office Notes

Chart New Wreck

2.7) Wreck

Survey Summary

Survey Position:	30° 07' 14.9" N, 085° 41' 56.3" W
Least Depth:	2.61 m (= 8.57 ft = 1.428 fm = 1 fm 2.57 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2014-006.00:00:00.000 (01/06/2014)
Dataset:	Wrecks.000
FOID:	US 0000057190 00001(02260000DF660001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

[None]

Hydrographer Recommendations

[None]

Cartographically-Rounded Depth (Affected Charts):

8ft (11391_1, 11390_1, 11389_1)

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

Office Notes

Chart New Wreck

2.8) Wreck

Survey Summary

Survey Position:	30° 07' 30.0" N, 085° 41' 55.2" W
Least Depth:	3.43 m (= 11.26 ft = 1.877 fm = 1 fm 5.26 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2014-006.00:00:00.000 (01/06/2014)
Dataset:	Wrecks.000
FOID:	US 0000057189 00001(02260000DF650001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

[None]

Hydrographer Recommendations

[None]

Cartographically-Rounded Depth (Affected Charts):

11ft (11391_1, 11390_1, 11389_1)

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

Office Notes

Chart New Wreck

2.9) Wreck

Survey Summary

Survey Position:	30° 06' 54.2" N, 085° 41' 21.1" W
Least Depth:	4.31 m (= 14.14 ft = 2.357 fm = 2 fm 2.14 ft)
TPU (±1.96σ):	**THU (TPEh)** [None] ; **TVU (TPEv)** [None]
Timestamp:	2014-006.00:00:00.000 (01/06/2014)
Dataset:	Wrecks.000
FOID:	US 0000057186 00001(02260000DF620001)
Charts Affected:	11391_1, 11390_1, 11389_1, 1115A_1, 11360_1, 11006_1, 411_1

Remarks:

[None]

Hydrographer Recommendations

[None]

Cartographically-Rounded Depth (Affected Charts):

14ft (11391_1, 11390_1, 11389_1)

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

Office Notes

Chart New Wreck

APPROVAL PAGE

H12357

Data meet or exceed current specifications as certified by the OCS survey acceptance review process. Descriptive Report and survey data except where noted are adequate to supersede prior surveys and nautical charts in the common area.

The following products will be sent to NGDC for archive

- H12357_DR.pdf
- Collection of depth varied resolution BAGS
- Processed survey data and records
- H12357_GeoImage.pdf

The survey evaluation and verification has been conducted according current OCS Specifications.

Digitally signed by HOLMBERG.PETER.SCOTT.1365886101
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=OTHER, cn=HOLMBERG.PETER.SCOTT.1365886101
Date: 2015.02.10 10:47:07 -08'00'

Approved:_____

Pete Holmberg
Cartographic Team Lead, Pacific Hydrographic Branch

The survey has been approved for dissemination and usage of updating NOAA's suite of nautical charts.

Digitally signed by EVANS.BENJAMIN.K.1237217094
Reason: I am approving this document
Date: 2015.02.10 15:04:21 -08'00'

Approved:_____

CDR Benjamin K. Evans, NOAA
Chief, Pacific Hydrographic Branch