

H13318

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

DESCRIPTIVE REPORT

Type of Survey: Navigable Area

Registry Number: H13318

LOCALITY

State(s): Louisiana

General Locality: Northern Gulf of Mexico

Sub-locality: 13 NM Offshore of Rollover Bayou

2019

CHIEF OF PARTY
John R. Bean

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Date:

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION		REGISTRY NUMBER:
HYDROGRAPHIC TITLE SHEET		H13318
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):	Louisiana	
General Locality:	Northern Gulf of Mexico	
Sub-Locality:	13 NM Offshore of Rollover Bayou	
Scale:	40000	
Dates of Survey:	09/13/2019 to 03/11/2020	
Instructions Dated:	07/25/2019	
Project Number:	OPR-K354-KR-19	
Field Unit:	Ocean Surveys, Inc.	
Chief of Party:	John R. Bean	
Soundings by:	Multibeam Echo Sounder	
Imagery by:	Side Scan Sonar Multibeam Echo Sounder Backscatter	
Verification by:	Atlantic Hydrographic Branch	
Soundings Acquired in:	meters at Mean Lower Low Water	
Remarks: <p>The information presented in this report and the accompanying digital data represents the results of surveys performed by Ocean Surveys, Inc. during the period of September 13, 2019 to March 11, 2020 and can only be considered as indicating the conditions existing at that time. Reuse of this information by client or others beyond the specific scope of work for which it was acquired shall be at the sole risk of the user and without liability to OSI.</p> <p><i>Any revisions to the Descriptive Report (DR) applied during office processing are shown in red italic text. The DR is maintained as a field unit product, therefore all information and recommendations within this report are considered preliminary unless otherwise noted. The final disposition of survey data is represented in the NOAA nautical chart products. All pertinent records for this survey are archived at the National Centers for Environmental Information (NCEI) and can be retrieved via https://www.ncei.noaa.gov/.</i></p> <p><i>Products created during office processing were generated in NAD83 UTM 15N, MLLW. All references to other horizontal or vertical datums in this report are applicable to the processed hydrographic data provided by the field unit.</i></p>		

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Descriptive Report to Accompany Survey H13318

Project: OPR-K354-KR-19

Locality: Northern Gulf of Mexico

Sublocality: 13 NM Offshore of Rollover Bayou

Scale: 1:40000

September 2019 - March 2020

Ocean Surveys, Inc.

Chief of Party: John R. Bean

A. Area Surveyed

This survey provides hydrographic data for the Gulf of Mexico waters approaching the Louisiana Coast, offshore of Rollover Bayou.

A.1 Survey Limits

Data were acquired within the following survey limits:

Northwest Limit	Southeast Limit
29° 25' 49.17" N 92° 48' 57.43" W	29° 15' 2.11" N 92° 35' 42.05" W

Table 1: Survey Limits

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

A.2 Survey Purpose

The following text is copied verbatim from the Project Instructions' Purpose and Location Section:

"This Louisiana Coast survey will provide contemporary hydrographic data to update National Ocean Service (NOS) nautical chart products and services. This survey area supports a thriving energy industry containing numerous resource extraction platforms and pipelines and the marine traffic servicing these facilities. As well, the regional ecosystem supports commercial and recreational shrimping and fishing industries. This survey data will update legacy data acquired in the 1930s in an area where there is the expectation of significant sediment transport and where adjacent surveys have identified numerous exposed

pipelines and hazards. The project will cover approximately 406 square nautical miles of high-priority survey area. Survey data from this project is intended to supersede all prior survey data in the common area."

A.3 Survey Quality

The entire survey is adequate to supersede previous data.

A.4 Survey Coverage

The following table lists the coverage requirements for this survey as assigned in the project instructions:

Water Depth	Coverage Required
All waters in survey area	Complete Coverage Option B except where appropriate to use Option A for safety reasons (Refer to HSSD Section 5.2.2.3).
8 meters water depth and shoaler	Sidescan may be acquired at an altitude of 6-20% of the range scale

Table 2: Survey Coverage

Survey coverage was in accordance with the requirements listed above and in the HSSD.

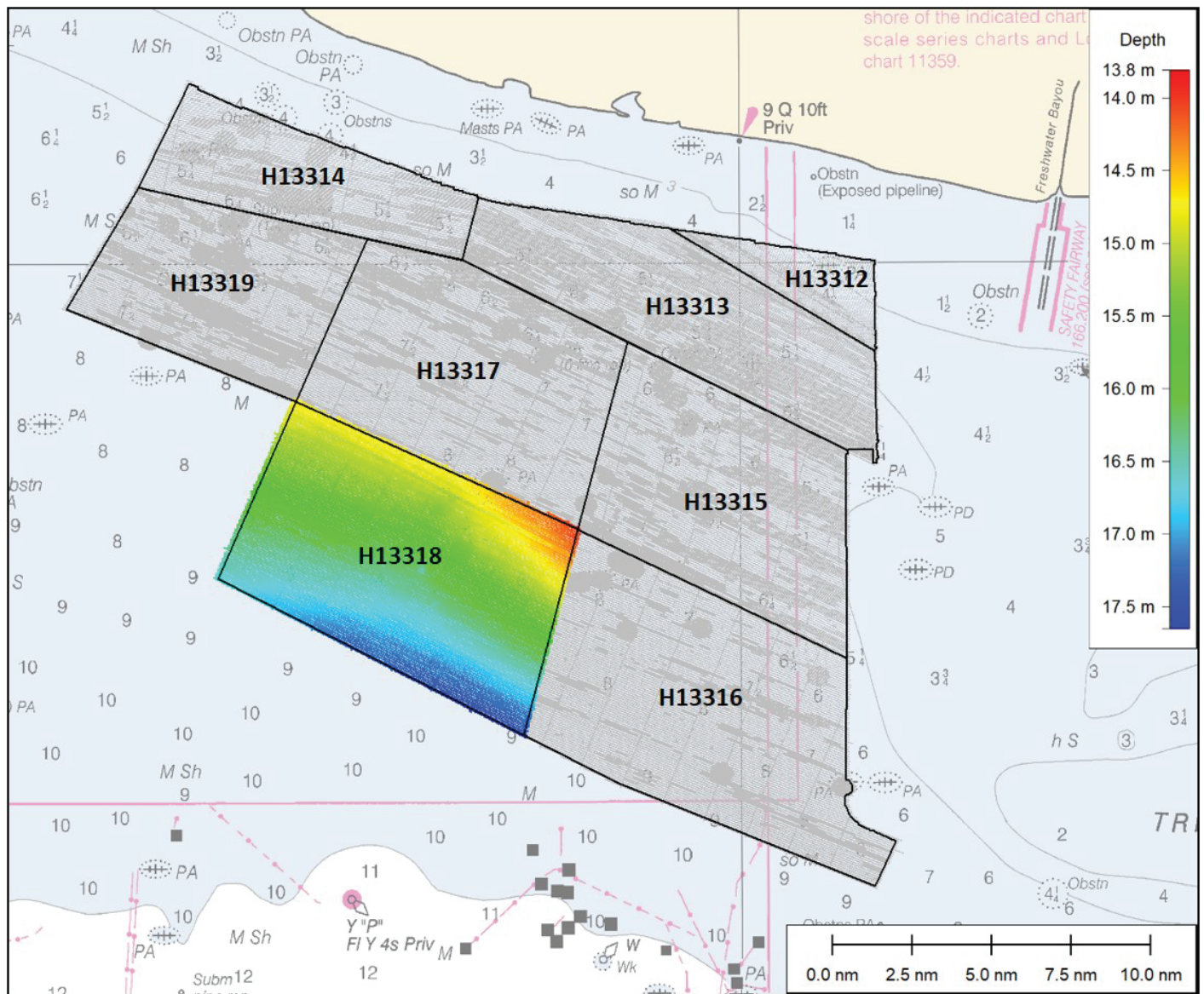


Figure 1: H13318 MBES survey coverage within project limits for OPR-K354-KR-19

A.6 Survey Statistics

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

	HULL ID	<i>R/V H.F. Stout</i>	<i>R/V Ocean Explorer</i>	<i>Total</i>
LNM	SBES Mainscheme	0	0	0
	MBES Mainscheme	5.99	50.69	56.68
	Lidar Mainscheme	0	0	0
	SSS Mainscheme	0	0	0
	SBES/SSS Mainscheme	0	0	0
	MBES/SSS Mainscheme	0	1122.36	1122.36
	SBES/MBES Crosslines	0	46.19	46.19
	Lidar Crosslines	0	0	0
Number of Bottom Samples				12
Number Maritime Boundary Points Investigated				0
Number of DPs				0
Number of Items Investigated by Dive Ops				0
Total SNM				68.15

Table 3: Hydrographic Survey Statistics

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

Survey Dates	Day of the Year
09/13/2019	256

Survey Dates	Day of the Year
10/10/2019	283
10/11/2019	284
10/13/2019	286
10/14/2019	287
10/15/2019	288
10/16/2019	289
10/19/2019	292
10/20/2019	293
10/28/2019	301
10/29/2019	302
10/30/2019	303
11/04/2019	308
12/04/2019	338
01/13/2020	13
01/14/2020	14
01/15/2020	15
01/16/2020	16
01/17/2020	17
01/18/2020	18
02/16/2020	47
02/17/2020	48
02/23/2020	54
03/11/2020	71

Table 4: Dates of Hydrography

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	<i>R/V Ocean Explorer</i>	<i>R/V H.F. Stout</i>
LOA	18 meters	9.1 meters
Draft	2 meters	0.76 meters

Table 5: Vessels Used

The R/V Ocean Explorer collected most of the data for this survey. A smaller vessel, the R/V H.F. Stout, collected a small amount of MBES investigation data and the bottom samples.

B.1.2 Equipment

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

Manufacturer	Model	Type
Teledyne RESON	SeaBat 7125 SV2	MBES
EdgeTech	4200	SSS
Applanix	POS MV 320 v5	Positioning and Attitude System
AML Oceanographic	Base X	Sound Speed System
AML Oceanographic	Micro X	Sound Speed System
AML Oceanographic	MVP-30	Sound Speed System
Trimble	NetR9	Positioning System

Table 6: Major Systems Used

B.2 Quality Control

B.2.1 Crosslines

Multibeam/single beam echo sounder/side scan sonar crosslines acquired for this survey totaled 3.92% of mainscheme acquisition.

If the investigation and fill-in lines are not included in the mainscheme mileage, then the crosslines acquired for this survey totaled 4.71% of mainscheme acquisition.

Crosslines for Survey H13318 were acquired on September 13, October 10, and October 11, 2019 (DNs 256, 283, and 284), with the gap between survey days due to weather and survey site conditions. The crosslines were run approximately northeast-southwest, with mainscheme lines run perpendicular to the crosslines (Figure 2).

Agreement between crossline and mainscheme data was very good, with no geographic pattern to the magnitude of discrepancy. A difference surface was generated in CARIS HIPS to compare a surface of only crosslines to a surface of only mainscheme data, and the median difference was 0.02m. Figure 3 is a histogram showing the distribution of depth differences for all comparison grid cells considered.

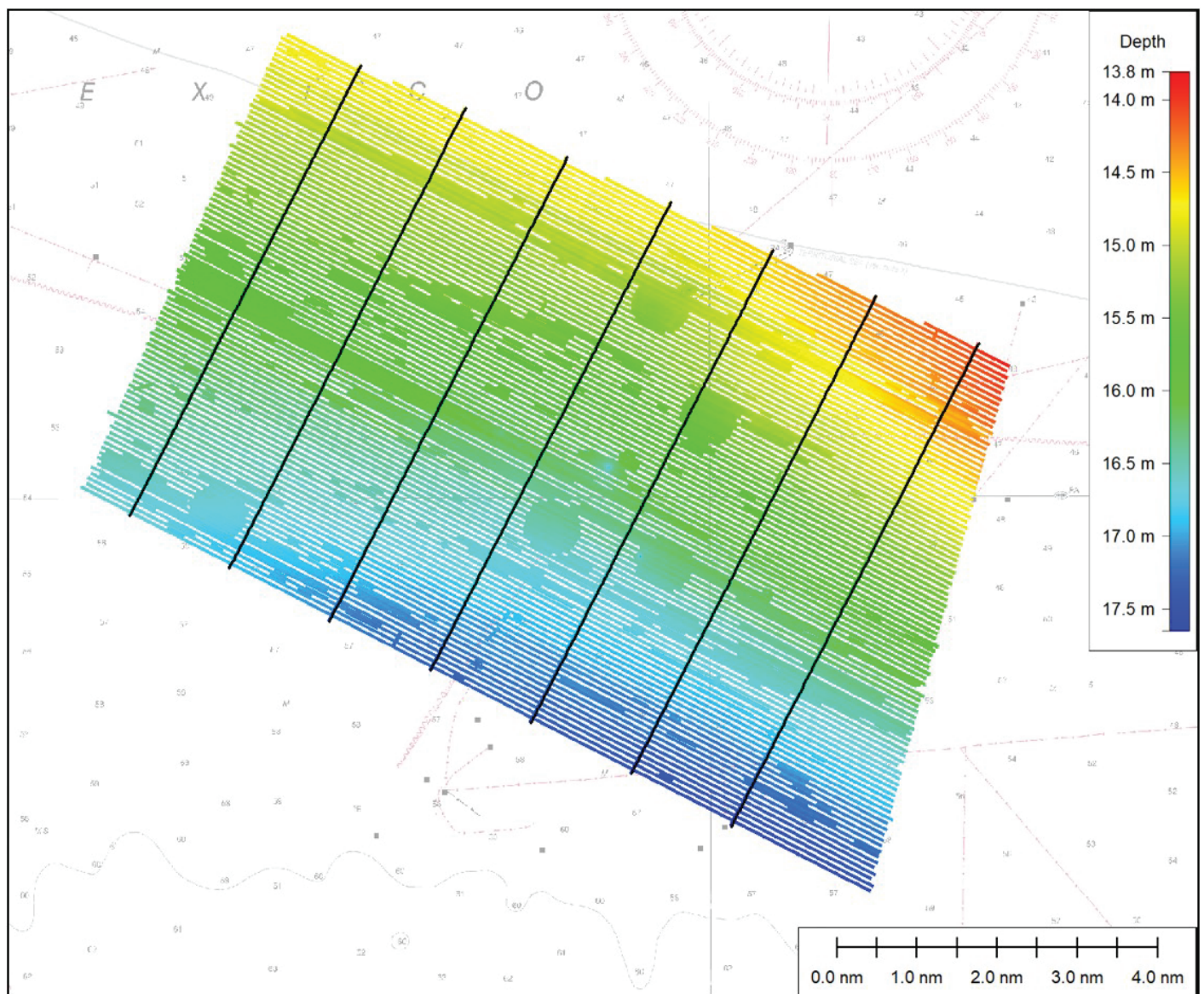
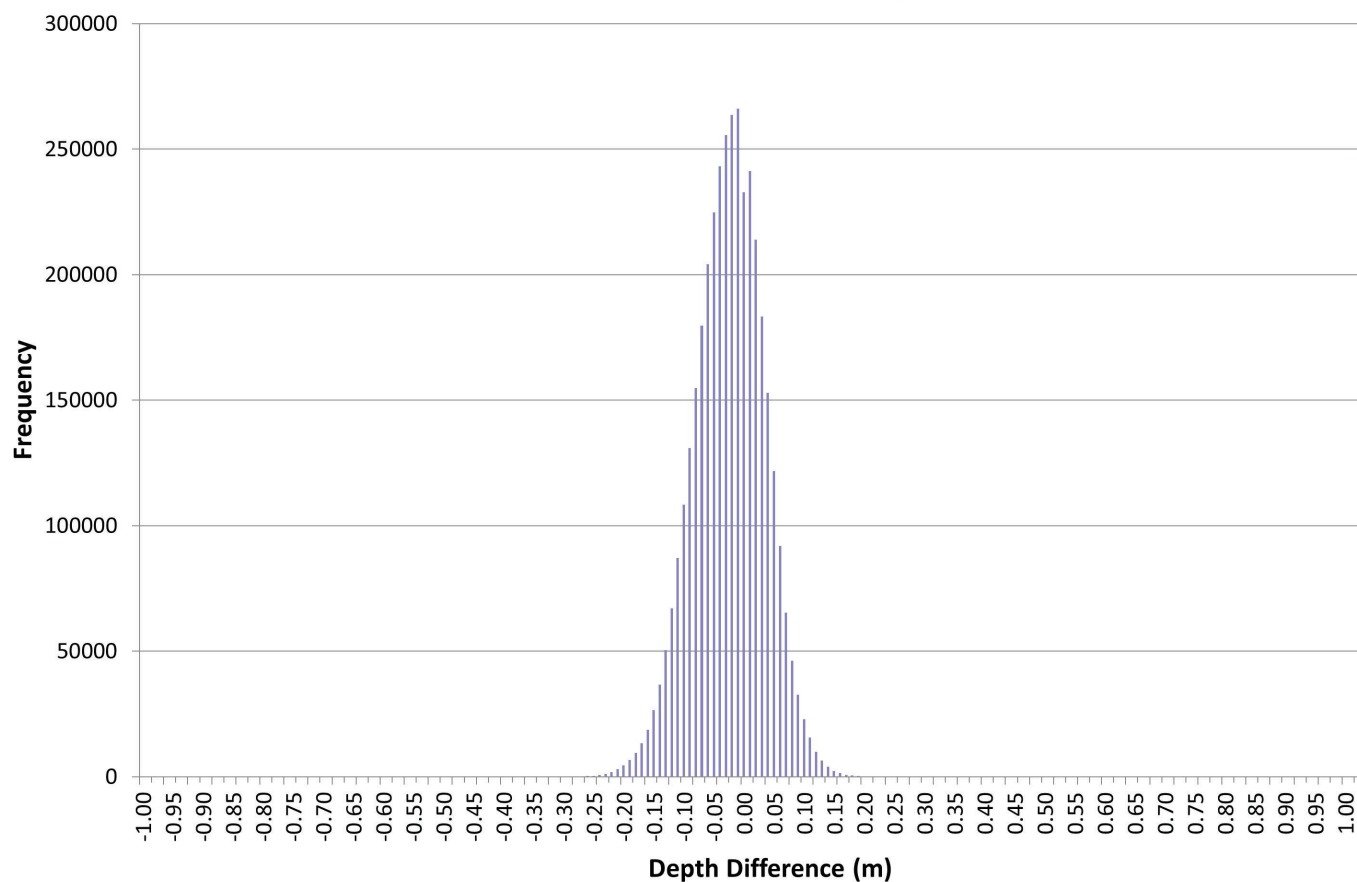


Figure 2: H13318 MBES crosslines (black) overlain on MBES survey coverage

Depth Differences between Survey H13318 Crossline and Mainscheme Data**Average : -0.0242 Median : -0.0200 Number of Samples = 3,805,411****Standard Deviation : 0.0583 Percent within 2 Sigma : 95.06%***Figure 3: H13318 MBES crossline less mainscheme comparison statistics***B.2.2 Uncertainty**

The following survey specific parameters were used for this survey:

Method	Measured	Zoning
ERS via VDATUM	0 meters	14.1 centimeters

Table 7: Survey Specific Tide TPU Values.

Hull ID	Measured - CTD	Measured - MVP	Surface
R/V Ocean Explorer	N/A	1 meters/second	2 meters/second
R/V H.F. Stout	4 meters/second	N/A	2 meters/second

Table 8: Survey Specific Sound Speed TPU Values.

The methods used to minimize the uncertainty in the corrections to echo soundings are described in detail in the project DAPR.

The HydrOffice "QC Tools" application was used to calculate TVU QC, determined by a ratio of uncertainty to the allowable error per NOAA and IHO specifications. The finalized surface for Survey H13318 passed the uncertainty check, with more than 99.5% of the nodes meeting uncertainty standards (Figure 4). The nodes that failed to meet the uncertainty standards were examined and found to be on features or on areas of high relief in the bathymetry.

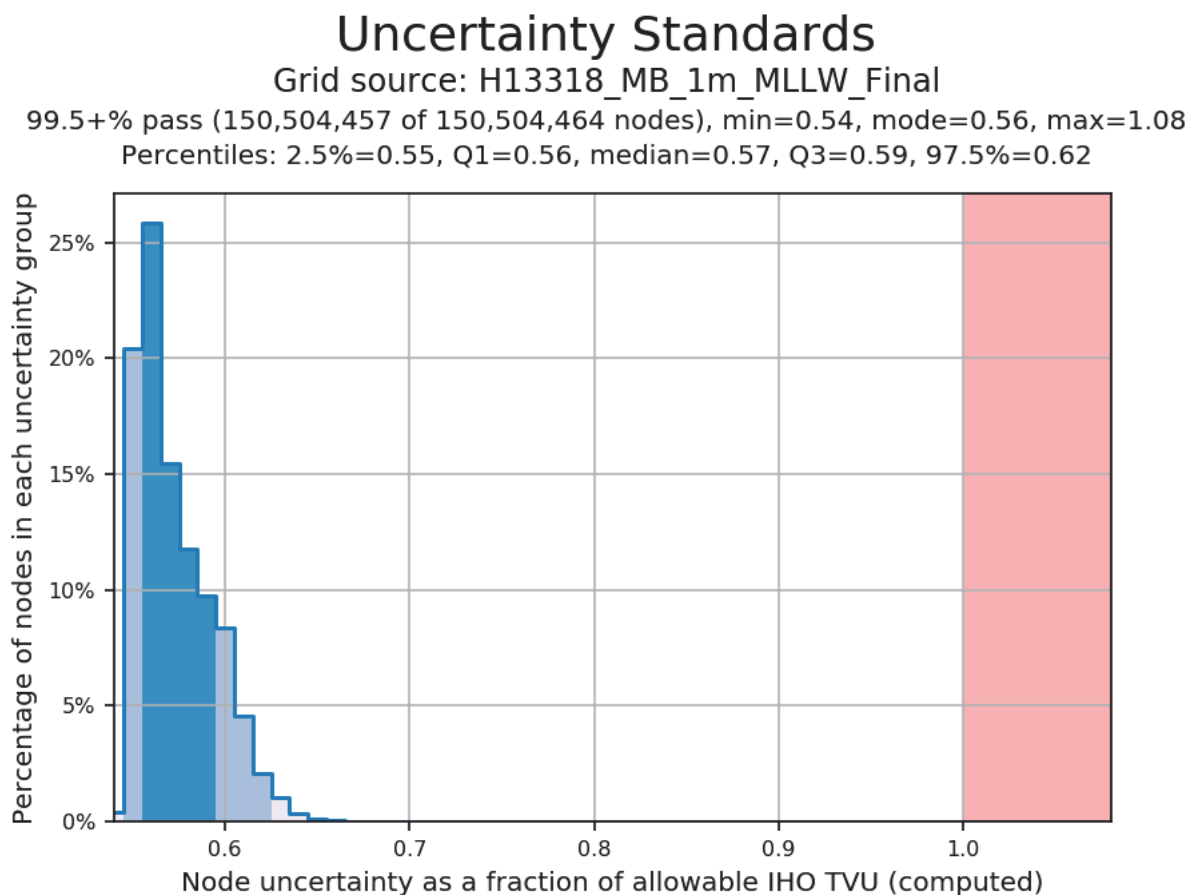


Figure 4: H13318 MBES surface uncertainty statistics

B.2.3 Junctions

Two current surveys junction with Survey H13318. Figure 5 displays the locations of the junction surveys for Project OPR-K354-KR-19, and the junctions specific to this survey are listed in Table 9.

Junction analyses were conducted by generating a difference surface in CARIS HIPS for each pair of surveys to compare the MBES surfaces where they overlap. A histogram of the depth differences was plotted to show the relative agreement of the surveyed depths, and to indicate shoaling or deepening trends by positive or negative differences. The magnitude of differences were compared to the maximum allowable TVU, which was 0.53m to 0.55m for the water depths in Survey H13318.

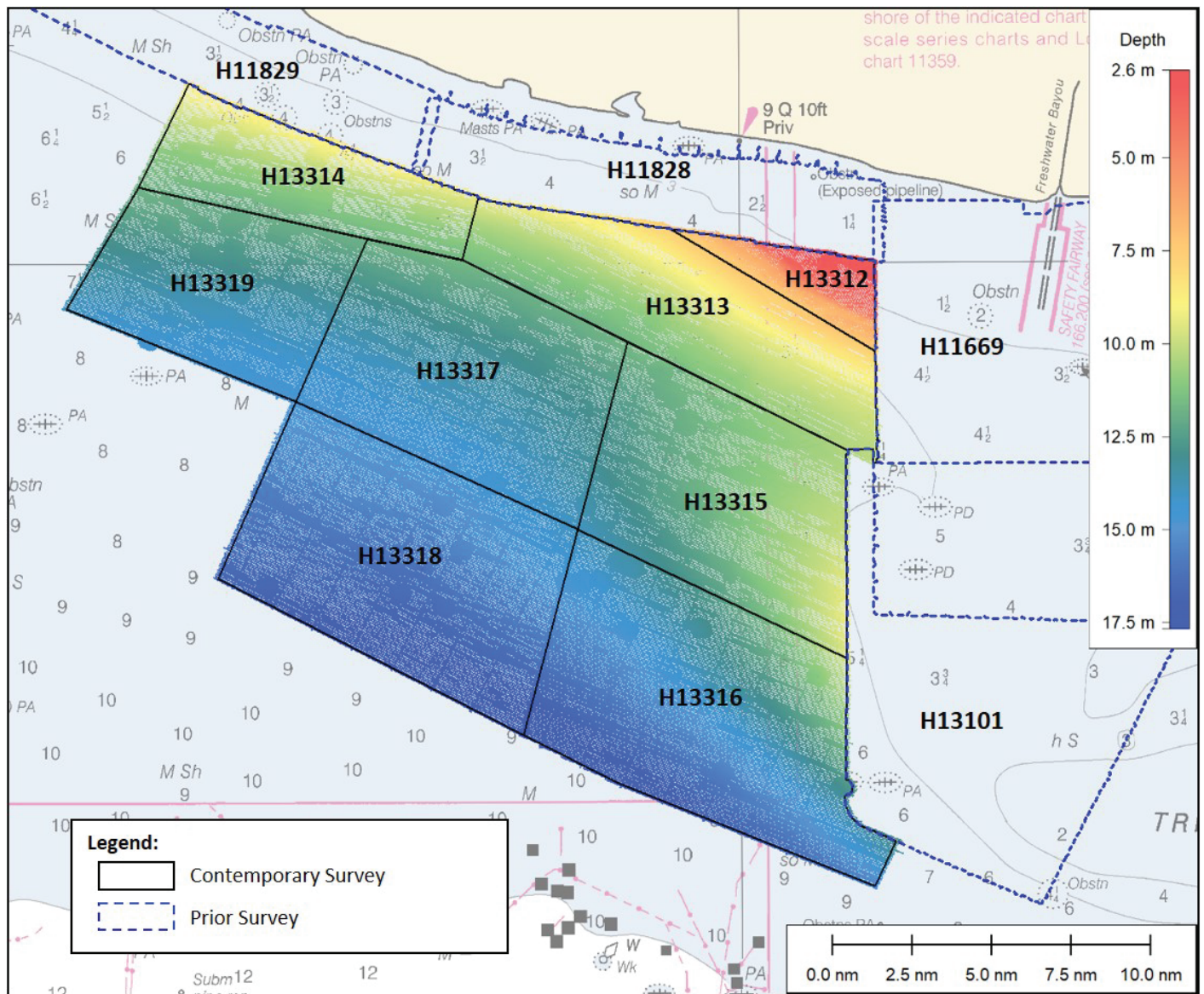


Figure 5: Survey junctions for Project OPR-K354-KR-19

The following junctions were made with this survey:

Registry Number	Scale	Year	Field Unit	Relative Location
H13316	1:40000	2019	Ocean Surveys, Inc.	E
H13317	1:40000	2019	Ocean Surveys, Inc.	N

Table 9: Junctioning Surveys

H13316

Current Survey H13316 junctions with the eastern border of Survey H13318, with an overlap area of approximately 12.7km long and 400m to 500m wide, though it reaches nearly 800m wide where a feature search radius extends into Survey H13318.

Depth discrepancies between the two surveys were minimal. All comparison cells had a difference well below the maximum allowable TVU, and the median difference was 0.01m. A histogram of the differences is shown in Figure 6.

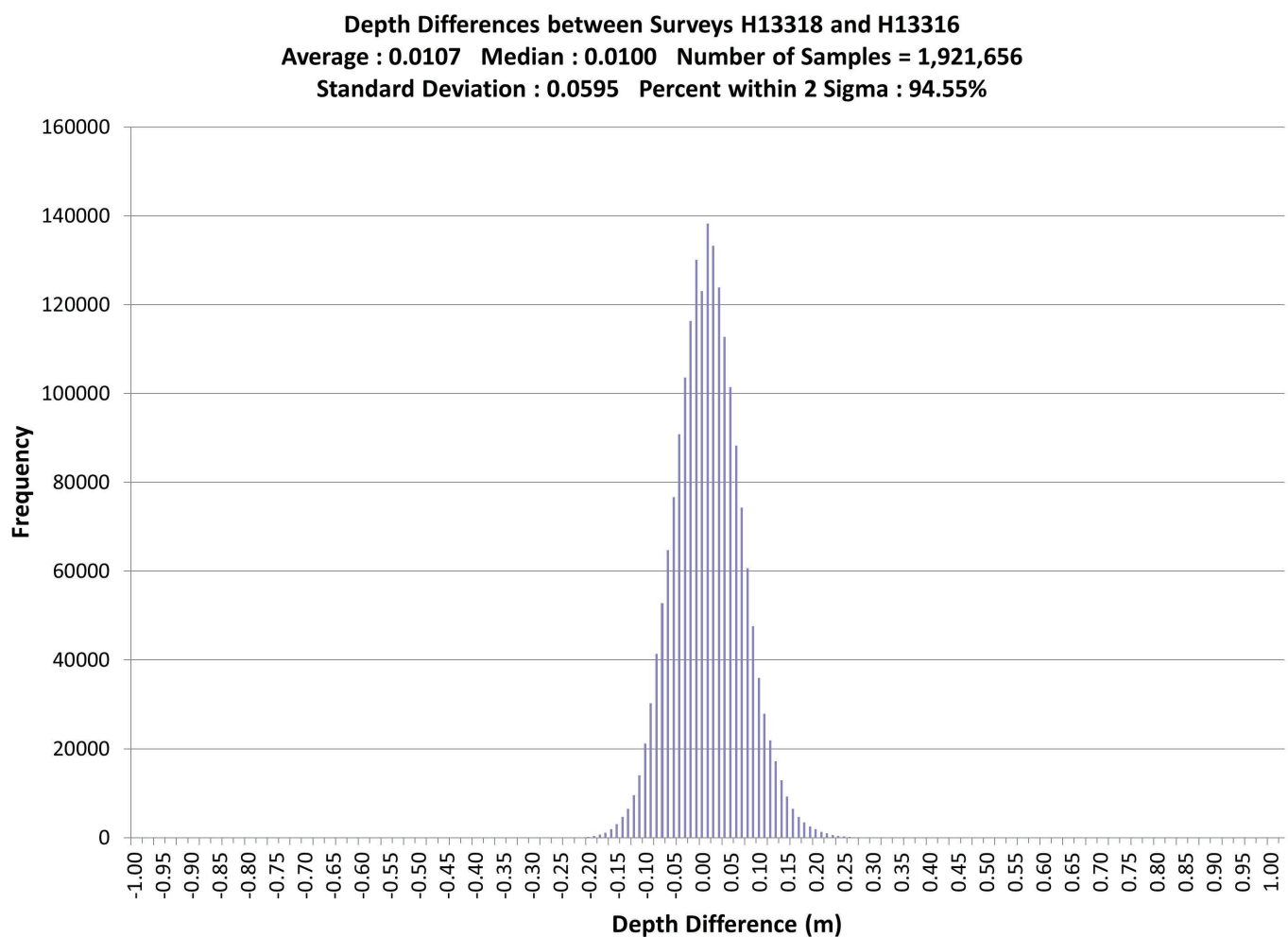


Figure 6: H13318 MBES less H13316 junction comparison statistics

H13317

Current Survey H13317 junctions with the northern border of Survey H13318, with an overlap area of approximately 18.4km long and 200m to 400m wide.

Depth discrepancies between the two surveys were minimal. All comparison cells had a difference well below the maximum allowable TVU, and the median difference was 0.02m. A histogram of the differences is shown in Figure 7.

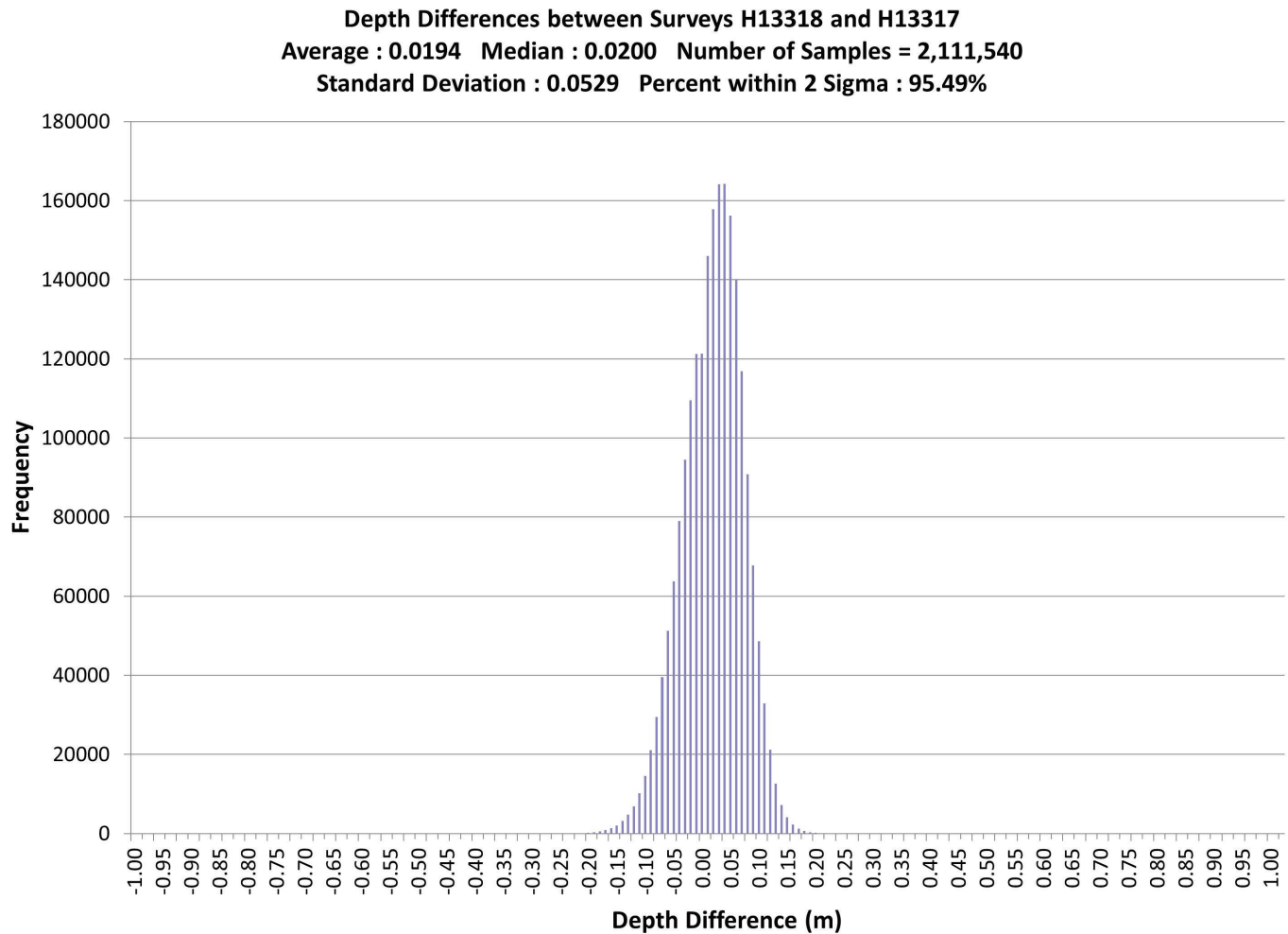


Figure 7: H13318 MBES less H13317 junction comparison statistics

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

There were no conditions or deficiencies that affected equipment operational effectiveness.

B.2.6 Factors Affecting Soundings

SSS Refraction

Dynamic sound speed changes affected the SSS imagery at times, causing refraction in the outer ranges of the SSS swath (Figure 8). To ensure coverage with high quality SSS data, lines with excessive refraction were rejected. If clear SSS imagery from adjacent lines was insufficient to cover the area of refraction, portions of the line were re-run.

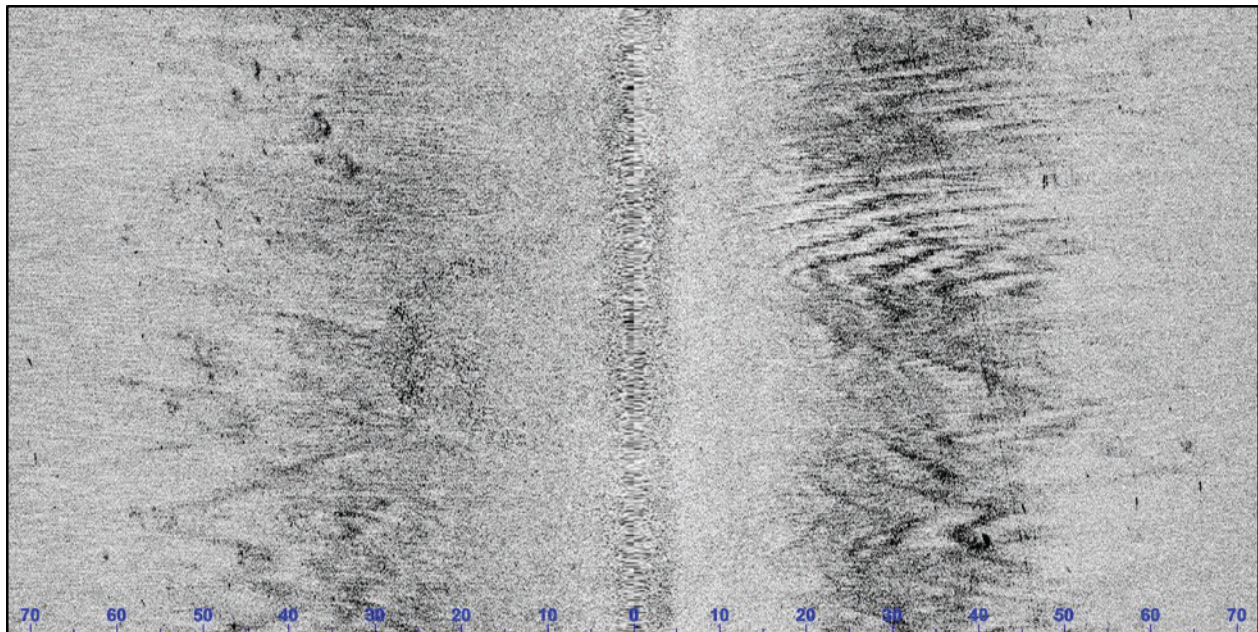


Figure 8: SSS imagery showing refraction.

Fish in SSS Imagery and MBES Data

An abundance of fish and marine sea life were seen in the SSS and MBES data, either as lone swimmers or in schools (Figures 9 and 10). In cases where large shadows in the SSS imagery or gaps in the MBES data were created by schools of fish or dolphins, additional coverage was obtained to ensure no significant features were located in these fish and dolphin shadows.

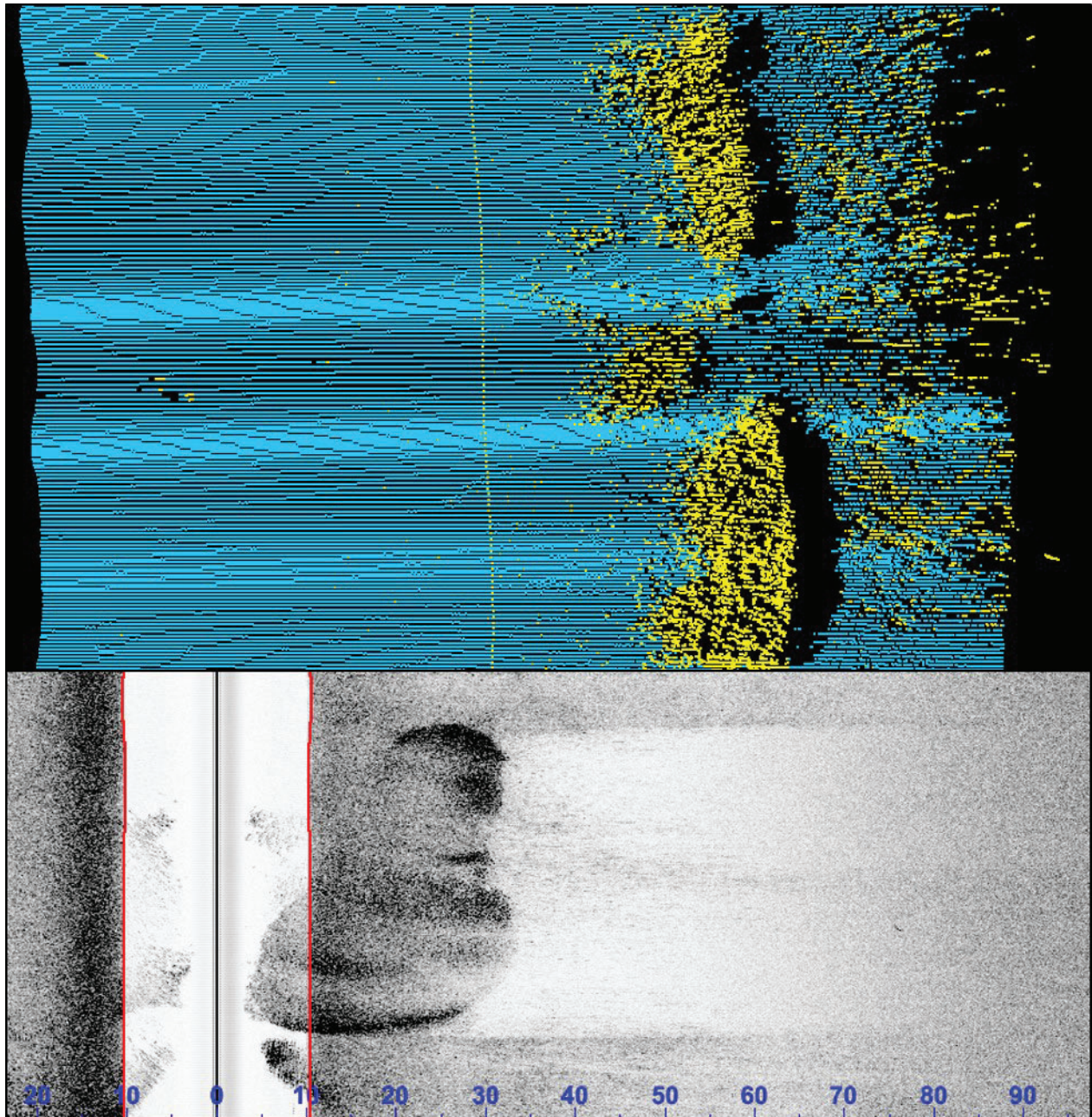


Figure 9: MBES (top) and SSS (bottom) images showing a school of fish and the acoustic shadow it casts in each dataset. Rejected soundings are colored yellow.

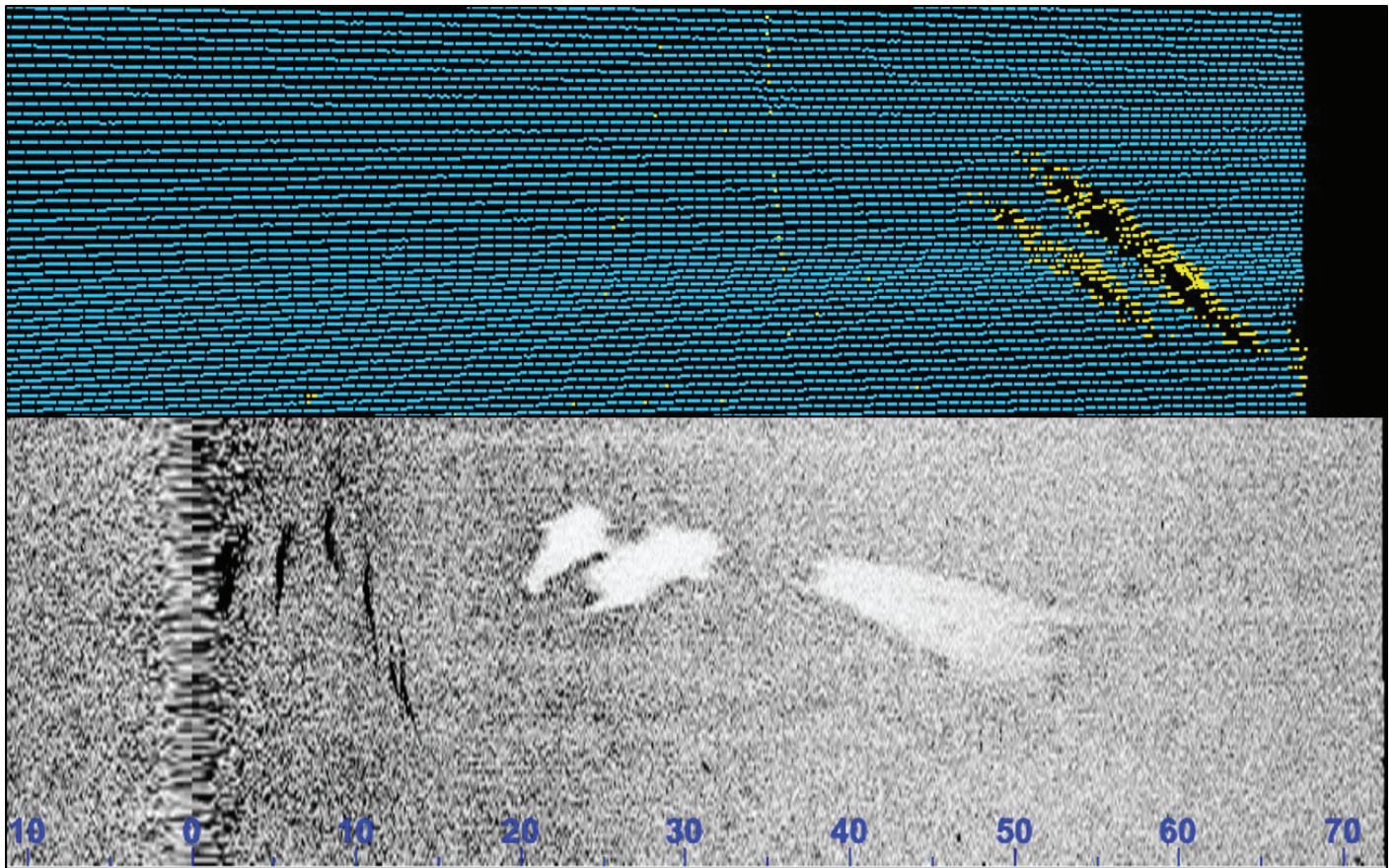


Figure 10: MBES (top) and SSS (bottom) images showing dolphins and the acoustic shadow they cast in each dataset. Rejected soundings are colored yellow.

MBES Refraction Artifacts

At various times throughout the survey time period (September 2019 to March 2020) OSI observed short period depth undulations in the outer beams of the MBES data. These localized artifacts were caused by refraction from a large and variable near surface speed of sound gradient. These refraction artifact areas are most prevalent from January to March 2020, particularly after a strong north wind drove cool fresh water from the coastal marshes into the Gulf of Mexico, less frequent artifacts were observed during September to December 2019. The MBES data in these areas were rejected, resulting in a narrower MBES swath. The remaining high-quality MBES data covers the SSS nadir gap which fulfills the survey coverage requirements. The SSS fish was flown below the gradient and SSS imagery was unaffected.

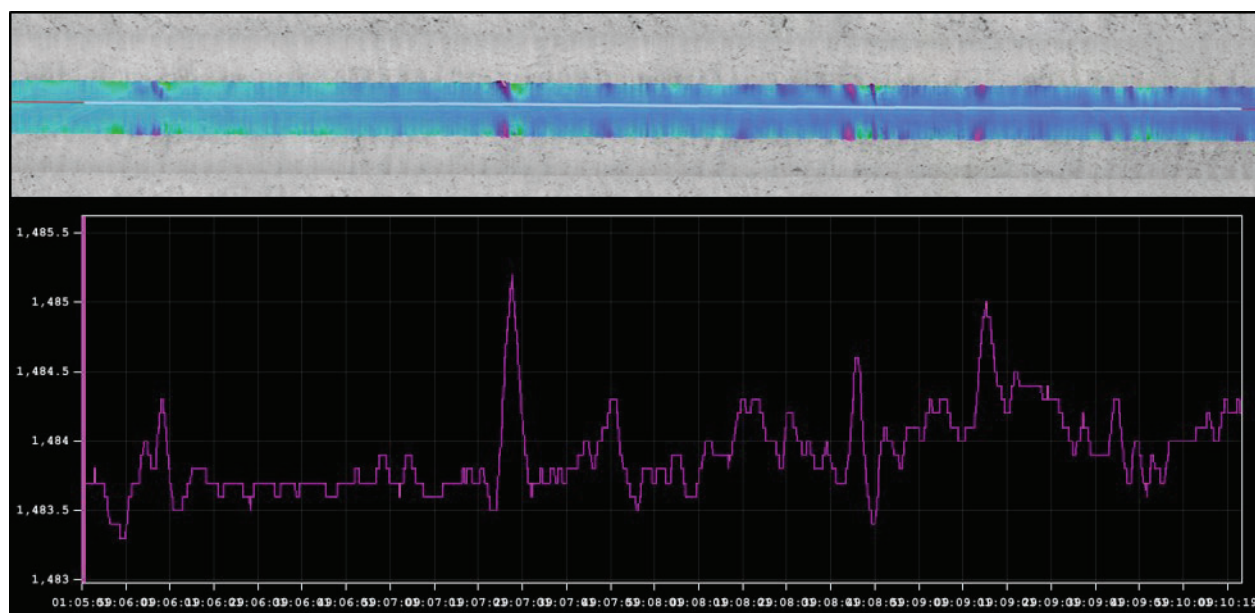


Figure 11: Example MBES Refraction Artifacts: MBES/SSS plan view (top) with associated sound speed time series from the AML sensor at the MBES head (bottom).

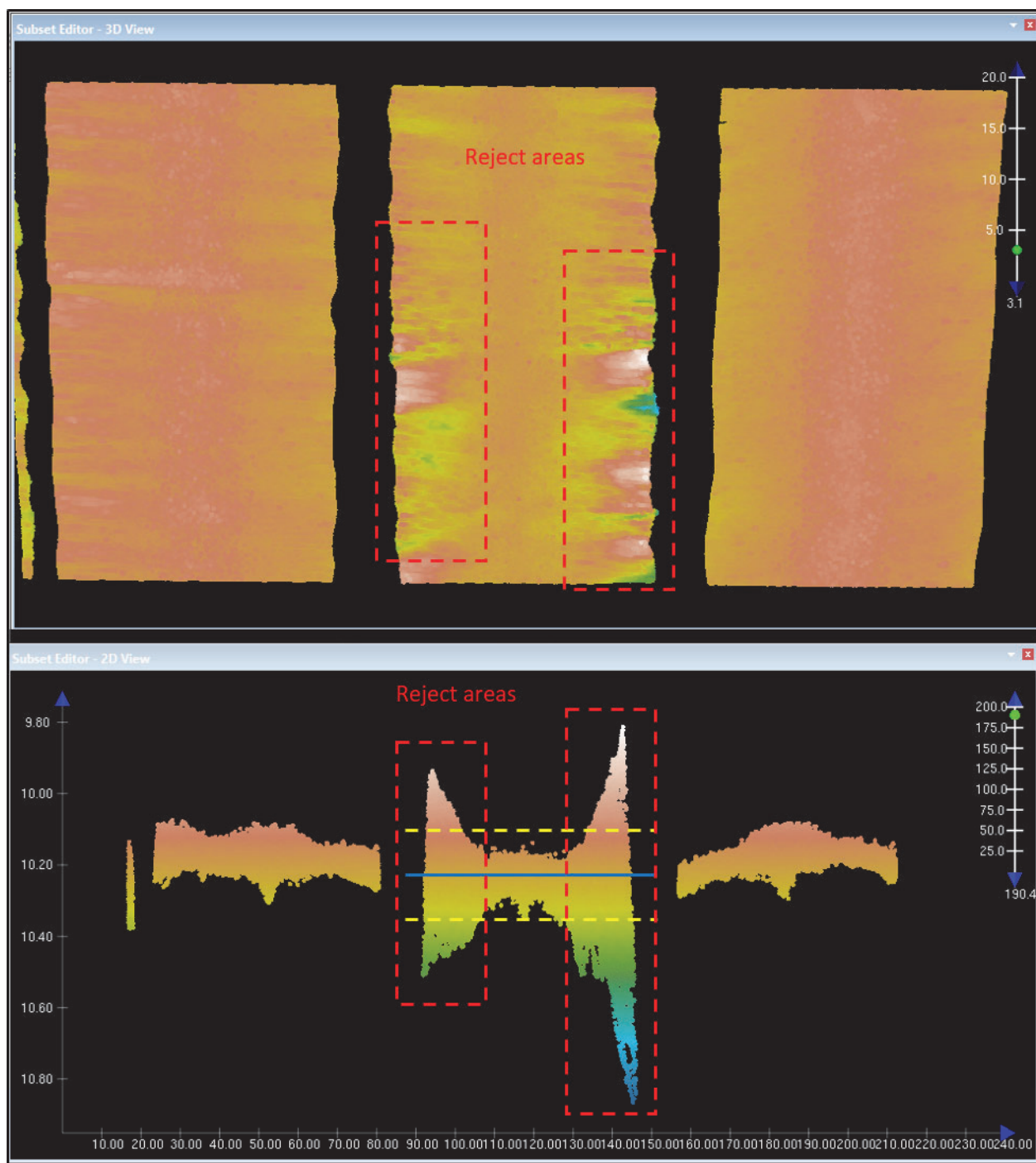


Figure 12: Example MBES Refraction Artifacts: Plan (top) and profile (bottom) views show refraction areas where outer-beam MBES data were rejected.

B.2.7 Sound Speed Methods

Sound Speed Cast Frequency: On board the R/V Ocean Explorer, sound speed profile data were acquired with the AML MVP30 approximately every 15 minutes. On board the R/V H. Stout, sound speed profile data were acquired with the AML Base X at intervals of approximately 1-2 hours.

All MBES lines from the R/V Ocean Explorer were sound speed corrected using the CARIS HIPS "Nearest in Time" method. MBES lines from the R/V H.F. Stout were sound speed corrected using the CARIS HIPS "Nearest in Distance Within Time" method, where the time interval used was 2 hours.

OSI submitted H13318 sound speed data in NetCDF format to the National Centers for Environmental Information (NCEI) on March 18, 2020 via the S2N tool. NCEI assigned the Accession Number 0209229 to the data from the R/V Ocean Explorer and Accession Number 0209228 to the data from the R/V H.F. Stout. Correspondence regarding the NCEI data submission is included in Appendix II.

B.2.8 Coverage Equipment and Methods

Survey H13318 was conducted to achieve Complete Coverage, using 100% SSS coverage with concurrent MBES (Option B; HSSD Section 5.2.2.3). All potentially significant features located by mainscheme SSS or MBES were also developed with MBES data to meet the Complete Coverage Multibeam requirements.

For single-resolution surfaces, HSSD Section 5.2.2.3 specifies a grid resolution of 1m for depths less than 20m, which covers all water depths of Survey H13318.

The HydrOffice "QC Tools" application was used to evaluate the density of the 1m finalized grid for Survey H13318. The data density plot (Figure 13) shows that the finalized surface meets the density coverage requirements, with more than 99.5% of nodes having 5 or more soundings.

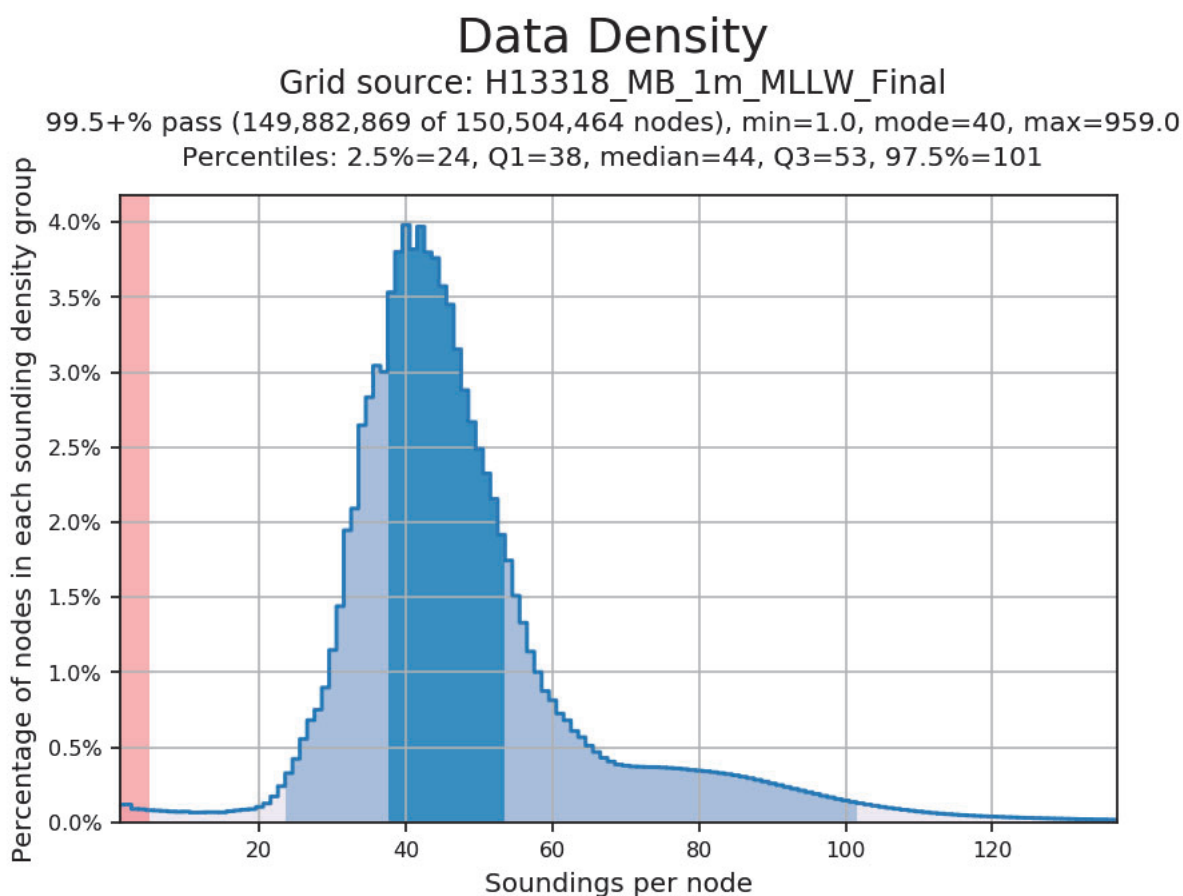


Figure 13: H13318 MBES density statistics

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

All sounding systems were calibrated as detailed in the DAPR.

B.4 Backscatter

Backscatter data for this survey were acquired but not processed. All equipment and survey methods were used as detailed in the DAPR.

B.5 Data Processing

B.5.1 Primary Data Processing Software

The following Feature Object Catalog was used: NOAA Profile Version 2019.

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
H13318_MB_1m_MLLW_Final.csar	CARIS Raster Surface (CUBE)	1 meters	12.327 meters - 18.219 meters	NOAA_1m	Complete MBES
H13318_MB_1m_MLLW.csar	CARIS Raster Surface (CUBE)	1 meters	12.500 meters - 18.216 meters	NOAA_1m	Complete MBES
H13318_SSSAB_1m_600kHz_1of2.tif	SSS Mosaic	1 meters	-	N/A	100% SSS
H13318_SSSAB_1m_600kHz_2of2.tif	SSS Mosaic	1 meters	-	N/A	200% SSS

Table 10: Submitted Surfaces

In addition to the surfaces in Table 10, a set of 0.25m SSS mosaic images were submitted in Enhanced Compressed Wavelet (ECW) format to assist with the survey review.

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.

ERS Datum Transformation

The following ellipsoid-to-chart vertical datum transformation was used:

Method	Ellipsoid to Chart Datum Separation File
ERS via VDATUM	OPR-K354-KR-2019_NAD83-MLLW_xGeoid17B.csar

Table 11: ERS method and SEP file

C.2 Horizontal Control

The horizontal datum for this project is North American Datum of 1983 (NAD 83).

The projection used for this project is Universal Transverse Mercator (UTM) Zone 15.

The following PPK methods were used for horizontal control:

- Smart Base

The following CORS Stations were used for horizontal control:

HVCR Site ID	Base Station ID
Abdalla Hall ULL	TONY
Franklin High Sch	FSHS
Eugene Island 337	DEV1
Cameron Parish Ct	CAMR
McNeese St Univ	MCNE
Amerada Pass	AMER
Calcasieu Pass	CALC

Table 12: CORS Base Stations

The following user installed stations were used for horizontal control:

HVCR Site ID	Base Station ID
OSI Freshwater Canal Locks	OSFL

Table 13: User Installed Base Stations

D. Results and Recommendations

D.1 Chart Comparison

Chart comparisons were conducted visually using a difference surface generated by subtracting ENC soundings from a finalized CUBE depth surface of survey MBES data. The difference surface, shown in Figure 14, represents regions of deepening with negative depth differences (cool colors), shoaling with positive depth differences (warm colors), and grey indicating areas of no significant change.

The CUBE depth surface of survey data used for this difference surface had a resolution of 10m. ENC soundings were taken from the latest editions of the charts available on the NOAA OCS website.

Local NTMs and NTMs from July 25, 2019 to March 14, 2020 were reviewed in conjunction with the chart comparison. The last NTM reviewed was No. 11, dated March 14, 2020, and the last Local NTM reviewed was notice 10/20, dated March 11, 2020. During this time, there was one ongoing notice for a platform in Survey H13318 with its light extinguished. This notice was first published in Notice 46/13.

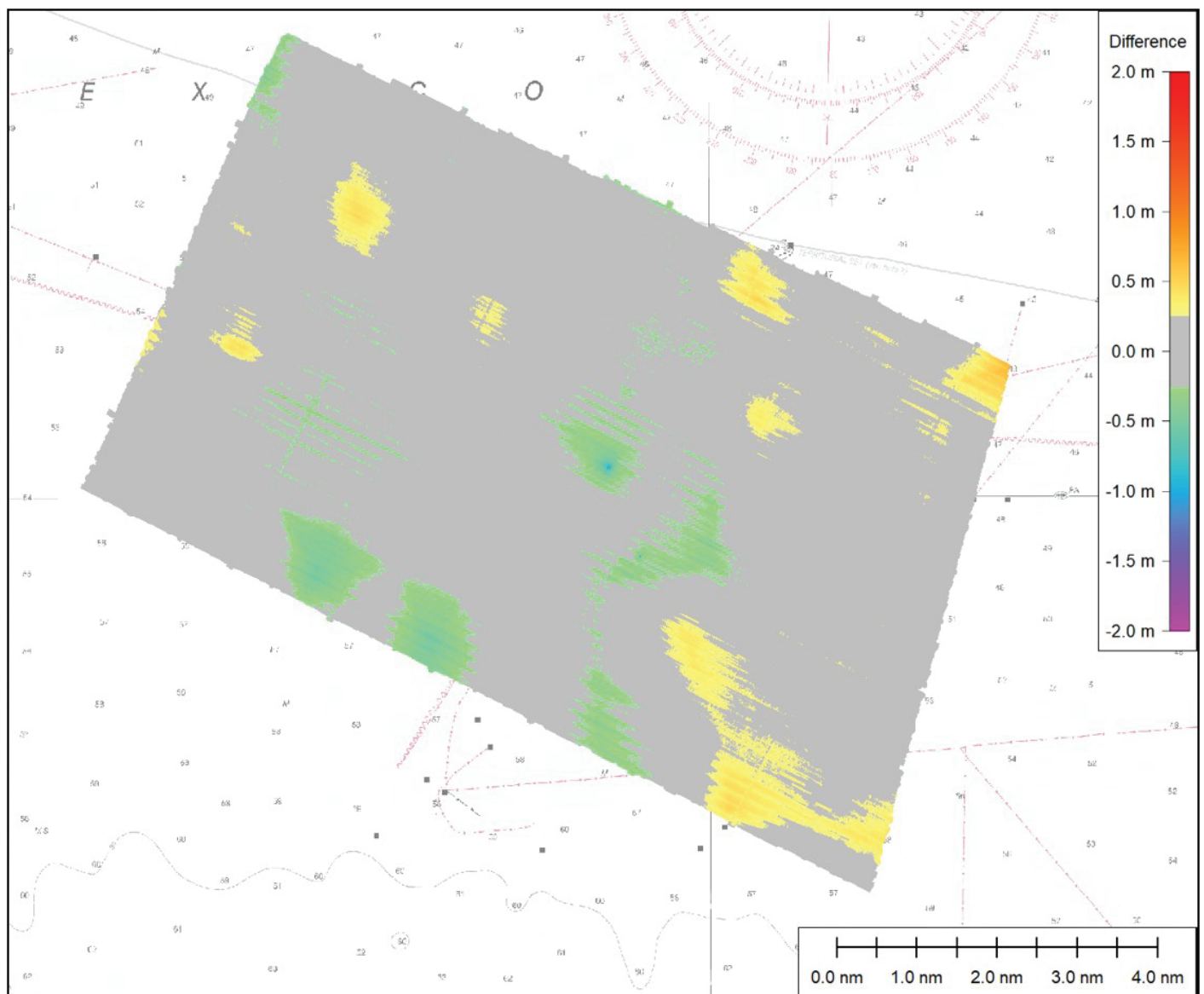


Figure 14: H13318 MBES less ENC charted depths surface comparison

D.1.1 Electronic Navigational Charts

The following are the largest scale ENC's, which cover the survey area:

ENC	Scale	Edition	Update Application Date	Issue Date	Preliminary?
US4LA14M	1:80000	26	12/09/2019	02/28/2020	NO

Table 14: Largest Scale ENC's

US4LA14M

ENC US4LA14M covers all of Survey H13318. Most of this area had no significant change from charted depths, but there were several patches of deepening or shoaling of approximately 0.5m (Figure 14). There were no depth contours charted within Survey H13318.

D.1.2 Maritime Boundary Points

No Maritime Boundary Points were assigned for this survey.

D.1.3 Charted Features

There were 2 charted wrecks assigned in the CSF within Survey H13318. Both wrecks are recommended for deletion; 1 was disproved and 1 was found more than 200m distant from its charted position. The new wreck position was submitted as a DTON.

D.1.4 Uncharted Features

There were 2 new features developed within Survey H13318 that were not submitted as DTONs. These 2 features were found near a pair of charted platforms. See the FFF for details.

D.1.5 Shoal and Hazardous Features

There were 6 DTONs submitted for Survey H13318, 3 obstructions and 3 wrecks. There were no charted shoals or other potentially hazardous features.

D.1.6 Channels

No channels exist for this survey. There are no designated anchorages, precautionary areas, safety fairways, traffic separation schemes, pilot boarding areas, or channel and range lines within the survey limits.

D.1.7 Bottom Samples

There were 12 bottom samples collected in Survey H13318. All bottom samples were primarily mud. See the FFF for further details and images of each sample.

D.2 Additional Results

D.2.1 Shoreline

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

D.2.2 Aids to Navigation

No Aids to Navigation (ATONs) exist for this survey.

D.2.3 Overhead Features

No overhead features exist for this survey.

D.2.4 Submarine Features

There were 13 submarine pipeline features and 1 submarine cable assigned in the CSF for Survey H13318. Prior to field operations, OSI also reviewed pipeline data from the Bureau of Ocean Energy Management (BOEM) to identify any potential uncharted pipelines. Within Survey H13318, BOEM data included 4 additional uncharted pipelines. No pipelines were observed to be elevated or exposed, and the cable was also not visible.

BOEM pipeline data were obtained as a shape file "ppl_arcs.shp" from the BOEM website (<https://www.data.boem.gov/Main/Mapping.aspx>) and re-projected as a .DXF file "BOEM_Pipelines_UTM_15N_NAD83_Meters.dxf." The data reviewed prior to surveying were downloaded on August 21, 2019, and data used for final chart comparisons were downloaded on March 12, 2020. The most recent BOEM files are included with the digital deliverables for Survey H13318.

D.2.5 Platforms

The CSF for Survey H13318 included 8 assigned platforms, and a review of BOEM platform data identified an additional 6 potentially uncharted BOEM platforms. There were 4 platforms confirmed to be present, all of which were charted and assigned in the CSF. See the FFF for details on their surveyed positions.

BOEM platform data were obtained as a shape file "platform.shp" from the BOEM website (<https://www.data.boem.gov/Main/Mapping.aspx>) and re-projected as a .DXF file "BOEM_Platforms_UTM_15N_NAD83_Meters.dxf." The data reviewed prior to surveying were downloaded on August 21, 2019, and data used for final chart comparisons were downloaded on March 12, 2020. The most recent BOEM files are included with the digital deliverables for Survey H13318.

D.2.6 Ferry Routes and Terminals

No ferry routes or terminals exist for this survey.

D.2.7 Abnormal Seafloor and/or Environmental Conditions

No abnormal seafloor and/or environmental conditions exist for this survey.

D.2.8 Construction and Dredging

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

D.2.9 New Survey Recommendation

No new surveys or further investigations are recommended for this area.

D.2.10 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 Specifications and Deliverables (2019), Field Procedures Manual (2014), Project 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.

Approver Name	Approver Title	Approval Date	Signature
John R. Bean	Chief of Party	04/14/2020	John R. Bean 2020.04.14 16:30:22 -04'00'
David T. Somers	Data Processing Manager	04/14/2020	David T. Somers 2020.04.14 16:30:54 -04'00'

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	Continuously Operating Reference Station
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
ERTDM	Ellipsoidally Referenced Tidal Datum Model
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

Acronym	Definition
HSSD	Hydrographic Survey Specifications and Deliverables
HSTB	Hydrographic Systems Technology Branch
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	Linear Nautical Miles
MBAB	Multibeam Echosounder Acoustic Backscatter
MCD	Marine Chart Division
MHW	Mean High Water
MLLW	Mean Lower Low Water
NAD 83	North American Datum of 1983
NALL	Navigable Area Limit Line
NTM	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
RNC	Raster Navigational Chart
RTK	Real Time Kinematic
RTX	Real Time Extended
SBES	Singlebeam Echosounder
SBET	Smooth Best Estimate and Trajectory
SNM	Square Nautical Miles
SSS	Side Scan Sonar
SSSAB	Side Scan Sonar Acoustic Backscatter
ST	Survey Technician
SVP	Sound Velocity Profiler
TCARI	Tidal Constituent And Residual Interpolation
TPU	Total Propagated Uncertainty
USACE	United States Army Corps of Engineers
USCG	United States Coast Guard
UTM	Universal Transverse Mercator
XO	Executive Officer
ZDF	Zone Definition File

From: [John R. Bean](#)
To: ["ocs.ndb@noaa.gov"](#); ["Coast.Pilot@noaa.gov"](#)
Cc: ["Douglas Wood - NOAA Federal"](#); ["Christy Fandel - NOAA Federal"](#)
Subject: OPR-K354-KR-19_Approaches to Louisiana Coast, Coast Pilot Review Report
Date: Friday, March 13, 2020 11:32:00 AM
Attachments: [OPR-K354-KR-19 Coast Pilot Review Report.pdf](#)

Good morning,

Please see the attached Coast Pilot Review Report for NOAA contract hydrographic survey OPR-K354-KR-19_Approaches to Louisiana Coast. Please contact me should you have any questions.

Best Regards,

John R. Bean, MS, CH
Manager-Hydrographic Surveys

OCEAN SURVEYS, INC.
129 Mill Rock Road East, Old Saybrook, CT 06475
T 860-388-4631 x148 **M** 860-710-8653 **F** 860-388-5879
jrb@oceansurveys.com | www.oceansurveys.com

From: [Douglas Wood - NOAA Federal](#)
To: [John R. Bean](#)
Cc: ocs.ndb@noaa.gov; Coast.Pilot@noaa.gov; [Christy Fandel - NOAA Federal](#)
Subject: Re: OPR-K354-KR-19_Approaches to Louisiana Coast, Coast Pilot Review Report
Date: Friday, March 13, 2020 12:44:18 PM

Thank you John,

I have read it over and forwarded it to our *Coast Pilot* person.

Thank you for reporting on some of the canals and waterways which were outside of the survey area. This can be helpful to future mariners.

Doug

On Fri, Mar 13, 2020 at 11:32 AM John R. Bean <jrb@oceansurveys.com> wrote:

Good morning,

Please see the attached Coast Pilot Review Report for NOAA contract hydrographic survey OPR-K354-KR-19_Approaches to Louisiana Coast. Please contact me should you have any questions.

Best Regards,

John R. Bean, MS, CH

Manager-Hydrographic Surveys

OCEAN SURVEYS, INC.

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jrb@oceansurveys.com | www.oceansurveys.com

--

Douglas Wood
Physical Scientist
Hydrographic Surveys Division

From: [David Somers](#)
To: ahb.dton@noaa.gov; [Douglas Wood - NOAA Federal](#); [Christina Fandel - NOAA Federal](#); [Kathryn Pridgen - NOAA Federal](#)
Cc: [John R. Bean](#); [George Reynolds](#)
Subject: H13318 DtoNs #1-6
Date: Thursday, February 20, 2020 10:04:33 AM
Attachments: [H13318 DtoNs 1-6.zip](#)

Good morning,

OSI has compiled and attached DtoN feature files along with supporting imagery for survey H13318.

H13318 DtoN 1 - Obstruction
H13318 DtoN 2 - Obstruction
H13318 DtoN 3 - Obstruction
H13318 DtoN 4 - Obstruction
H13318 DtoN 5 - Obstruction
H13318 DtoN 6 - Obstruction

Please let me know if OSI can provide any additional information regarding these DtoNs.

Regards,
Dave

David Somers
Data Processing Manager

OCEAN SURVEYS, INC.
129 Mill Rock Road East, Old Saybrook, CT 06475
T 860-388-4631 x135 **M** 860-575-3361 **F** 860-388-5879
dts@oceansurveys.com | www.oceansurveys.com

From: [Castle Parker - NOAA Federal](#)
To: [OCS NDB - NOAA Service Account](#)
Cc: [AHB Chief - NOAA Service Account](#); [Douglas Wood - NOAA Federal](#); [Christina Fandel - NOAA Federal](#); [John R. Bean](#); [David Somers](#); [George Reynolds](#)
Subject: H13318 DtoNs 1-6 Submission to NDB
Date: Thursday, February 20, 2020 12:59:32 PM
Attachments: [H13318 DtoNs 1-6.zip](#)

Good day,

Please find attached compressed file for H13318 DtoN Report #1-#6 containing six uncharted obstructions. The features are located offshore SSW of Rollover Bayou. The submission to Nautical Data Branch (NDB) and Marine Chart Division (MCD) is intended for chart application.

The information originates from a NOAA contract field unit and was submitted to the Atlantic Hydrographic Branch (AHB) for review, processing, and submission. The contents of the attached file were generated at AHB. The attached file contains a DtoN Letter (PDF), associated image files, and a Pydro XML file.

If you have any questions, please contact me via email or phone 757-364-7472. Thank you for your assistance with this matter.

Regards,
Gene

*Castle Eugene Parker
NOAA Office of Coast Survey
Atlantic Hydrographic Branch
Hydrographic Team Lead / Physical Scientist
castle.e.parker@noaa.gov
office (757) 364-7472*

From: [OCS NDB - NOAA Service Account](#)
To: [Castle Parker - NOAA Federal](#)
Cc: [AHB Chief - NOAA Service Account](#); [Douglas Wood - NOAA Federal](#); [Christina Fandel - NOAA Federal](#); [John R. Bean](#); [David Somers](#); [George Reynolds](#); [NSD Coast Pilot](#); [PHB Chief](#); [James M Crocker](#); [Matt Kroll](#); [Nautical Data Branch](#); [Tara Wallace](#); [Chris Libeau](#); [Ken Forster](#); [Michael Gaeta](#); [Charles Porter - NOAA Federal](#); [Kevin Jett - NOAA Federal](#); [William Winner](#); [_NOS OCS PBA Branch](#); [_NOS OCS PBB Branch](#); [_NOS OCS PBC Branch](#); [_NOS OCS PBD Branch](#); [_NOS OCS PBE Branch](#); [_NOS OCS PBG Branch](#)
Subject: Re: H13318 DtoNs 1-6 Submission to NDB
Date: Friday, February 21, 2020 12:31:32 PM
Attachments: [H13318 DtoNs 1-6.zip](#)

DD-32105 has been registered by the Nautical Data Branch and directed to Products Branch G for processing.

The DtoNs reported are six submerged obstructions located SSW of Rollover Bayou in the Gulf of Mexico.

The following charts have been assigned to the record:
11344 KAPP 123
11340 KAPP 49

The following ENC's have been assigned to the record:
US4LA14M
US3GC03M

References:
H13318
OPR-K354-KR-19

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

Nautical Data Branch/[Marine Chart Division](#)/
Office of Coast Survey/[National Ocean Service](#)/
[National Oceanic and Atmospheric Administration](#)
[United States Department of Commerce](#)
Contact: ocs.ndb@noaa.gov

On Thu, Feb 20, 2020 at 12:59 PM Castle Parker - NOAA Federal
<castle.e.parker@noaa.gov> wrote:

Good day,

Please find attached compressed file for H13318 DtoN Report #1-#6 containing six uncharted obstructions. The features are located offshore SSW of Rollover Bayou. The submission to Nautical Data Branch (NDB) and Marine Chart Division (MCD) is intended for chart application.

The information originates from a NOAA contract field unit and was submitted to the Atlantic Hydrographic Branch (AHB) for review, processing, and submission. The contents

of the attached file were generated at AHB. The attached file contains a DtoN Letter (PDF), associated image files, and a Pydro XML file.

If you have any questions, please contact me via email or phone 757-364-7472. Thank you for your assistance with this matter.

Regards,

Gene

Castle Eugene Parker

NOAA Office of Coast Survey

Atlantic Hydrographic Branch

Hydrographic Team Lead / Physical Scientist

castle.e.parker@noaa.gov

office (757) 364-7472

From: [John R. Bean](#)
To: ["pop.information@noaa.gov"](#); ["ocs.ecc@noaa.gov"](#)
Cc: ["Douglas Wood - NOAA Federal"](#); ["Christy Fandel - NOAA Federal"](#)
Subject: OPR-K354-KR-19 Approaches to Louisiana Coast: Marine Mammal Observation Reports
Date: Friday, March 13, 2020 1:20:00 PM
Attachments: [OPR-K354-KR-19_MMO_Reports.pdf](#)
[OPR-K354-KR-19_MMO-Training_Report.pdf](#)

Good afternoon,

Please see the attached Marine Mammal Observation reports for NOAA contract hydrographic survey OPR-K354-KR-19 Approaches to Louisiana Coast. Reports are included for both vessels on the project (R/V Ocean Explorer and R/V H.F. Stout). Also attached is a list of trained observers. Please let me know if you have any questions.

Best Regards,

John R. Bean, MS, CH
Manager-Hydrographic Surveys

OCEAN SURVEYS, INC.
129 Mill Rock Road East, Old Saybrook, CT 06475
T 860-388-4631 x148 **M** 860-710-8653 **F** 860-388-5879
jrb@oceansurveys.com | www.oceansurveys.com

From: [Jay Nunenkamp - NOAA Federal](#)
To: [John R. Bean](#)
Cc: pop.information@noaa.gov; [NOS OCS ECC](#); [Douglas Wood - NOAA Federal](#); [Christy Fandel - NOAA Federal](#)
Subject: Re: OPR-K354-KR-19 Approaches to Louisiana Coast: Marine Mammal Observation Reports
Date: Friday, March 13, 2020 3:39:02 PM

Received, thank you.

Sincerely,

Jay Nunenkamp (he/his)
Environmental Compliance Coordinator
Office of Coast Survey
National Oceanic and Atmospheric Administration
SSMC3 Room 6513
(240) 533-0118

On Fri, Mar 13, 2020 at 1:25 PM John R. Bean <jrb@oceansurveys.com> wrote:

Good afternoon,

Please see the attached Marine Mammal Observation reports for NOAA contract hydrographic survey OPR-K354-KR-19 Approaches to Louisiana Coast. Reports are included for both vessels on the project (R/V Ocean Explorer and R/V H.F. Stout). Also attached is a list of trained observers. Please let me know if you have any questions.

Best Regards,

John R. Bean, MS, CH

Manager-Hydrographic Surveys

OCEAN SURVEYS, INC.

129 Mill Rock Road East, Old Saybrook, CT 06475

T 860-388-4631 x148 **M** 860-710-8653 **F** 860-388-5879

jrb@oceansurveys.com | www.oceansurveys.com

The following table lists Oceans Surveys, Inc. staff who were trained Marine Mammal Observers aboard the *R/V Ocean Explorer* and the *R/V H.F. Stout* during the NOAA Contract Survey Project OPR-K354-KR 19—Approaches to Louisiana Coast. The period of the survey was September 06, 2019 to March 11, 2020.

Personnel	Position	Marine Species Awareness Video Viewing Date
Yulio Araya	Hydrographic Survey Technician	April 3, 2019
Morgan D. Barrett	Hydrographic Survey Technician	April 3, 2019
John Bean	Lead Hydrographer	May 2, 2016
Jack Brigg	Captain	April 26, 2019
Jack Brigg	Captain	April 26, 2019
Logan Crouse	Senior Hydrographer	July 21, 2017
Lily Glynos	Hydrographic Survey Technician	September 9, 2019
Michael Bradley Hughes	Senior Hydrographer	November 3, 2019
Benjamin J. Jackson	Hydrographic Survey Technician	November 1, 2019
Corey Leamy	Hydrographer	May 15, 2018
Hugh Lincoln	Hydrographer	April 3, 2019
Dalton Leonhardt	Hydrographer	August 18, 2017
George Main Sr.	Captain	July 22, 2016
George Main III	Captain	July 22, 2016
Curt Ramsay	Hydrographic Survey Technician	July 22, 2016
James M. Roth	Hydrographic Survey Technician	April 24, 2019
Evan Shalagan	Hydrographic Survey Technician	April 3, 2019
David Tiffany	Hydrographic Survey Technician	September 3, 2019
Joseph Tyler	Lead Hydrographer	June 5, 2017
Alexander Unrein	Lead Hydrographer	May 25, 2017
David Vinick	Captain	May 10, 2018
Robert Wallace	Lead Hydrographer	May 2, 2016

From: [Joseph DiPalma](#)
To: [Kelley Bostrom](#); [David Somers](#); [John R. Bean](#)
Subject: Fw: [Send2NCEI] data submission confirmation for Reference ID: A75G3E
Date: Thursday, March 5, 2020 10:27:38 AM

Submission for H13318 (RV HF Stout 2020)

----- Forwarded Message -----

From: NODC.DataOfficer@noaa.gov <nodc.dataofficer@noaa.gov>
To: "jjd@oceansurveys.com" <jjd@oceansurveys.com>
Sent: Thursday, March 5, 2020, 10:00:17 AM EST
Subject: [Send2NCEI] data submission confirmation for Reference ID: A75G3E

Dear Joseph DiPalma,

Thank you for submitting your data collection, titled "SOUND VELOCITY collected from RV H.F. Stout in Coastal Waters of Gulf of Mexico from 2020-01-18 to 2020-01-18", to the NOAA National Centers for Environmental Information (NCEI). Your submission package has been assigned Reference ID: A75G3E. After reviewing your data and metadata, NCEI will update you about the archival status of your submission package.

You will be notified if NCEI creates an archival information package (accession) of your data, including the unique identifier for that archival information package (the NCEI Accession number). When your data are archived, NCEI keeps an exact copy of the data and metadata you sent and will develop necessary tracking and discovery metadata. In addition, NCEI may create additional versions to ensure your data are preserved for long-term access.

Upon completion of these archival ingest actions, NCEI will publish your data online (including a copy of your original files). You will receive another email once your submission package (Reference ID: A75G3E) is published for global access. In addition, NCEI may include all or part of your data into one or more product databases, such as the World Ocean Database.

No additional action is required from you at this time: This is a system-generated email notification to complete the Send2NCEI submission tracking process. If you have any questions about NCEI archival processes, please contact NODC.DataOfficer@noaa.gov. Also, if at any time you wish to update your submission package, please send an e-mail to NODC.DataOfficer@noaa.gov with your request. Please remember to include your submission package Reference ID.

Thank you again for choosing to archive your data with the National Centers for Environmental Information (NCEI).

NCEI Data Officer Team
NOAA National Centers for Environmental Information
NOAA/NESDIS
1315 East-West Highway
Silver Spring, MD 20910
USA

From: [Joseph DiPalma](#)
To: [Kelley Bostrom](#); [David Somers](#); [John R. Bean](#)
Subject: Fw: [Send2NCEI] data submission confirmation for Reference ID: X6JDJT
Date: Thursday, March 5, 2020 10:31:16 AM

Submission for H13314, H13316, H13317, H13318, H13319 (RV Ocean Explorer 2019)

----- Forwarded Message -----

From: NODC.DataOfficer@noaa.gov <nodc.dataofficer@noaa.gov>
To: "jjd@oceansurveys.com" <jjd@oceansurveys.com>
Sent: Thursday, March 5, 2020, 10:15:10 AM EST
Subject: [Send2NCEI] data submission confirmation for Reference ID: X6JDJT

Dear Joseph DiPalma,

Thank you for submitting your data collection, titled "SOUND VELOCITY collected from RV Ocean Explorer in Coastal Waters of Gulf of Mexico from 2019-09-06 to 2019-12-15", to the NOAA National Centers for Environmental Information (NCEI). Your submission package has been assigned Reference ID: X6JDJT. After reviewing your data and metadata, NCEI will update you about the archival status of your submission package.

You will be notified if NCEI creates an archival information package (accession) of your data, including the unique identifier for that archival information package (the NCEI Accession number). When your data are archived, NCEI keeps an exact copy of the data and metadata you sent and will develop necessary tracking and discovery metadata. In addition, NCEI may create additional versions to ensure your data are preserved for long-term access.

Upon completion of these archival ingest actions, NCEI will publish your data online (including a copy of your original files). You will receive another email once your submission package (Reference ID: X6JDJT) is published for global access. In addition, NCEI may include all or part of your data into one or more product databases, such as the World Ocean Database.

No additional action is required from you at this time: This is a system-generated email notification to complete the Send2NCEI submission tracking process. If you have any questions about NCEI archival processes, please contact NODC.DataOfficer@noaa.gov. Also, if at any time you wish to update your submission package, please send an e-mail to NODC.DataOfficer@noaa.gov with your request. Please remember to include your submission package Reference ID.

Thank you again for choosing to archive your data with the National Centers for Environmental Information (NCEI).

NCEI Data Officer Team
NOAA National Centers for Environmental Information
NOAA/NESDIS
1315 East-West Highway
Silver Spring, MD 20910
USA

From: [Joseph DiPalma](#)
To: [Kelley Bostrom](#); [David Somers](#); [John R. Bean](#)
Subject: Fw: [Send2NCEI] data submission confirmation for Reference ID: P46AC9
Date: Thursday, March 5, 2020 10:34:41 AM

Submission for H13314, H13317, H13318, H13319 (RV Ocean Explorer 2020)

----- Forwarded Message -----

From: "nodc.dataofficer@noaa.gov" <nodc.dataofficer@noaa.gov>
To: "jjd@oceansurveys.com" <jjd@oceansurveys.com>
Sent: Thursday, March 5, 2020, 10:30:15 AM EST
Subject: [Send2NCEI] data submission confirmation for Reference ID: P46AC9

Dear Joseph DiPalma,

Thank you for submitting your data collection, titled "SOUND VELOCITY collected from RV Ocean Explorer in Coastal Waters of Gulf of Mexico from 2020-01-12 to 2020-02-23", to the NOAA National Centers for Environmental Information (NCEI). Your submission package has been assigned Reference ID: P46AC9. After reviewing your data and metadata, NCEI will update you about the archival status of your submission package.

You will be notified if NCEI creates an archival information package (accession) of your data, including the unique identifier for that archival information package (the NCEI Accession number). When your data are archived, NCEI keeps an exact copy of the data and metadata you sent and will develop necessary tracking and discovery metadata. In addition, NCEI may create additional versions to ensure your data are preserved for long-term access.

Upon completion of these archival ingest actions, NCEI will publish your data online (including a copy of your original files). You will receive another email once your submission package (Reference ID: P46AC9) is published for global access. In addition, NCEI may include all or part of your data into one or more product databases, such as the World Ocean Database.

No additional action is required from you at this time: This is a system-generated email notification to complete the Send2NCEI submission tracking process. If you have any questions about NCEI archival processes, please contact NODC.DataOfficer@noaa.gov. Also, if at any time you wish to update your submission package, please send an e-mail to NODC.DataOfficer@noaa.gov with your request. Please remember to include your submission package Reference ID.

Thank you again for choosing to archive your data with the National Centers for Environmental Information (NCEI).

NCEI Data Officer Team
NOAA National Centers for Environmental Information
NOAA/NESDIS
1315 East-West Highway
Silver Spring, MD 20910
USA

From: [Joseph DiPalma](#)
To: [Kelley Bostrom](#); [John R. Bean](#); [David Somers](#)
Subject: Fw: NCEI acceptance confirmation for Reference ID: P46AC9
Date: Monday, March 9, 2020 2:08:11 PM

----- Forwarded Message -----

From: Alexandra.Grodsky@noaa.gov <alexandra.grodsky@noaa.gov>
To: "jjd@oceansurveys.com" <jjd@oceansurveys.com>
Cc: "alexandra.grodsky@noaa.gov" <alexandra.grodsky@noaa.gov>
Sent: Monday, March 9, 2020, 01:57:13 PM EDT
Subject: NCEI acceptance confirmation for Reference ID: P46AC9

Dear Joseph DiPalma:

Thank you for sending your data and metadata files to the NOAA National Centers for Environmental Information (NCEI). NCEI received these data, SOUND VELOCITY collected from RV Ocean Explorer in Coastal Waters of Gulf of Mexico from 2020-01-12 to 2020-02-23, on 2020-03-05 15:17:39 via S2N.

After reviewing your submission package (metadata and data), I assigned your submission an NCEI Accession Number 0209251. This number is a tracking identifier for the NCEI Ocean Archive. Please reference this number when corresponding with NCEI about these data.

You can find information about these archived data at <https://accession.nodc.noaa.gov/0209251>.

After further reviewing your data, creating any additional representations of these data in a format that is more preservable in the NCEI Ocean Archive, and developing necessary tracking metadata, NCEI will publish these archived data online. You may access the archival copy of your original data via the link listed above.

In addition to creating an archival copy of these data, NCEI may include all or part of your data into one or more product databases, such as the World Ocean Database.

No additional action is required from you at this time: This is a system-generated email notification to complete the Send2NCEI submission tracking process. Please let me know if you have any questions or if you have additional data and documentation that you would like to archive with these data.

Thank you again for choosing to archive your data with the National Centers for Environmental Information (NCEI).

Regards,
Alexandra Grodsky
Alexandra.Grodsky@noaa.gov

Subject: [Send2NCEI] data submission confirmation for Reference ID: P46AC9
From: NODC.DataOfficer@noaa.gov
To: jjd@oceansurveys.com

Dear Joseph DiPalma,

Thank you for submitting your data collection, titled "SOUND VELOCITY collected from RV Ocean Explorer in Coastal Waters of Gulf of Mexico from 2020-01-12 to 2020-02-23", to the NOAA National

Centers for Environmental Information (NCEI). Your submission package has been assigned Reference ID: P46AC9. After reviewing your data and metadata, NCEI will update you about the archival status of your submission package.

You will be notified if NCEI creates an archival information package (accession) of your data, including the unique identifier for that archival information package (the NCEI Accession number). When your data are archived, NCEI keeps an exact copy of the data and metadata you sent and will develop necessary tracking and discovery metadata. In addition, NCEI may create additional versions to ensure your data are preserved for long-term access.

Upon completion of these archival ingest actions, NCEI will publish your data online (including a copy of your original files). You will receive another email once your submission package (Reference ID: P46AC9) is published for global access. In addition, NCEI may include all or part of your data into one or more product databases, such as the World Ocean Database.

No additional action is required from you at this time: This is a system-generated email notification to complete the Send2NCEI submission tracking process. If you have any questions about NCEI archival processes, please contact NODC.DataOfficer@noaa.gov. Also, if at any time you wish to update your submission package, please send an e-mail to NODC.DataOfficer@noaa.gov with your request. Please remember to include your submission package Reference ID.

Thank you again for choosing to archive your data with the National Centers for Environmental Information (NCEI).

NCEI Data Officer Team
NOAA National Centers for Environmental Information
NOAA/NESDIS
1315 East-West Highway
Silver Spring, MD 20910
USA

From: [Joseph DiPalma](#)
To: [Kelley Bostrom](#); [John R. Bean](#); [David Somers](#)
Subject: Fw: NCEI acceptance confirmation for Reference ID: X6JDJT
Date: Monday, March 9, 2020 2:08:23 PM

----- Forwarded Message -----

From: Alexandra.Grodsky@noaa.gov <alexandra.grodsky@noaa.gov>
To: "jjd@oceansurveys.com" <jjd@oceansurveys.com>
Cc: "alexandra.grodsky@noaa.gov" <alexandra.grodsky@noaa.gov>
Sent: Monday, March 9, 2020, 01:57:51 PM EDT
Subject: NCEI acceptance confirmation for Reference ID: X6JDJT

Dear Joseph DiPalma:

Thank you for sending your data and metadata files to the NOAA National Centers for Environmental Information (NCEI). NCEI received these data, SOUND VELOCITY collected from RV Ocean Explorer in Coastal Waters of Gulf of Mexico from 2019-09-06 to 2019-12-15, on 2020-03-05 15:08:37 via S2N.

After reviewing your submission package (metadata and data), I assigned your submission an NCEI Accession Number 0209252. This number is a tracking identifier for the NCEI Ocean Archive. Please reference this number when corresponding with NCEI about these data.

You can find information about these archived data at <https://accession.nodc.noaa.gov/0209252>.

After further reviewing your data, creating any additional representations of these data in a format that is more preservable in the NCEI Ocean Archive, and developing necessary tracking metadata, NCEI will publish these archived data online. You may access the archival copy of your original data via the link listed above.

In addition to creating an archival copy of these data, NCEI may include all or part of your data into one or more product databases, such as the World Ocean Database.

No additional action is required from you at this time: This is a system-generated email notification to complete the Send2NCEI submission tracking process. Please let me know if you have any questions or if you have additional data and documentation that you would like to archive with these data.

Thank you again for choosing to archive your data with the National Centers for Environmental Information (NCEI).

Regards,
Alexandra Grodsky
Alexandra.Grodsky@noaa.gov

Subject: [Send2NCEI] data submission confirmation for Reference ID: X6JDJT
From: NODC.DataOfficer@noaa.gov
To: jjd@oceansurveys.com

Dear Joseph DiPalma,

Thank you for submitting your data collection, titled "SOUND VELOCITY collected from RV Ocean Explorer in Coastal Waters of Gulf of Mexico from 2019-09-06 to 2019-12-15", to the NOAA National

Centers for Environmental Information (NCEI). Your submission package has been assigned Reference ID: X6JDJT. After reviewing your data and metadata, NCEI will update you about the archival status of your submission package.

You will be notified if NCEI creates an archival information package (accession) of your data, including the unique identifier for that archival information package (the NCEI Accession number). When your data are archived, NCEI keeps an exact copy of the data and metadata you sent and will develop necessary tracking and discovery metadata. In addition, NCEI may create additional versions to ensure your data are preserved for long-term access.

Upon completion of these archival ingest actions, NCEI will publish your data online (including a copy of your original files). You will receive another email once your submission package (Reference ID: X6JDJT) is published for global access. In addition, NCEI may include all or part of your data into one or more product databases, such as the World Ocean Database.

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Thank you again for choosing to archive your data with the National Centers for Environmental Information (NCEI).

NCEI Data Officer Team
NOAA National Centers for Environmental Information
NOAA/NESDIS
1315 East-West Highway
Silver Spring, MD 20910
USA

From: [Joseph DiPalma](#)
To: [Kelley Bostrom](#); [John R. Bean](#); [David Somers](#)
Subject: Fw: NCEI acceptance confirmation for Reference ID: A75G3E
Date: Monday, March 9, 2020 2:08:33 PM

----- Forwarded Message -----

From: Alexandra.Grodsky@noaa.gov <alexandra.grodsky@noaa.gov>
To: "jjd@oceansurveys.com" <jjd@oceansurveys.com>
Cc: "alexandra.grodsky@noaa.gov" <alexandra.grodsky@noaa.gov>
Sent: Monday, March 9, 2020, 02:03:37 PM EDT
Subject: NCEI acceptance confirmation for Reference ID: A75G3E

Dear Joseph DiPalma:

Thank you for sending your data and metadata files to the NOAA National Centers for Environmental Information (NCEI). NCEI received these data, SOUND VELOCITY collected from RV H.F. Stout in Coastal Waters of Gulf of Mexico from 2020-01-18 to 2020-01-18, on 2020-03-05 14:54:50 via S2N.

After reviewing your submission package (metadata and data), I assigned your submission an NCEI Accession Number 0209249. This number is a tracking identifier for the NCEI Ocean Archive. Please reference this number when corresponding with NCEI about these data.

You can find information about these archived data at <https://accession.nodc.noaa.gov/0209249>.

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Regards,
Alexandra Grodsky
Alexandra.Grodsky@noaa.gov

Subject: [Send2NCEI] data submission confirmation for Reference ID: A75G3E
From: NODC.DataOfficer@noaa.gov
To: jjd@oceansurveys.com

Dear Joseph DiPalma,

Thank you for submitting your data collection, titled "SOUND VELOCITY collected from RV H.F. Stout in Coastal Waters of Gulf of Mexico from 2020-01-18 to 2020-01-18", to the NOAA National Centers for

Environmental Information (NCEI). Your submission package has been assigned Reference ID: A75G3E. After reviewing your data and metadata, NCEI will update you about the archival status of your submission package.

You will be notified if NCEI creates an archival information package (accession) of your data, including the unique identifier for that archival information package (the NCEI Accession number). When your data are archived, NCEI keeps an exact copy of the data and metadata you sent and will develop necessary tracking and discovery metadata. In addition, NCEI may create additional versions to ensure your data are preserved for long-term access.

Upon completion of these archival ingest actions, NCEI will publish your data online (including a copy of your original files). You will receive another email once your submission package (Reference ID: A75G3E) is published for global access. In addition, NCEI may include all or part of your data into one or more product databases, such as the World Ocean Database.

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Thank you again for choosing to archive your data with the National Centers for Environmental Information (NCEI).

NCEI Data Officer Team
NOAA National Centers for Environmental Information
NOAA/NESDIS
1315 East-West Highway
Silver Spring, MD 20910
USA

From: [Joseph DiPalma](#)
To: [Kelley Bostrom](#); [David Somers](#); [John R. Bean](#)
Subject: Fw: NCEI online publication confirmation of NCEI Accession 0209251
Date: Monday, March 23, 2020 4:53:04 PM

Acceptance of NCEI svp data for OE sheets 13 and 15

----- Forwarded Message -----

From: Alexandra.Grodsky@noaa.gov <alexandra.grodsky@noaa.gov>
To: "jjd@oceansurveys.com" <jjd@oceansurveys.com>
Cc: "alexandra.grodsky@noaa.gov" <alexandra.grodsky@noaa.gov>
Sent: Monday, March 23, 2020, 04:00:13 PM EDT
Subject: NCEI online publication confirmation of NCEI Accession 0209251

Dear Joseph DiPalma,

Thank you for sending your data and metadata files to be archived and published by the NOAA National Centers for Environmental Information (NCEI). NCEI received these data, SOUND VELOCITY collected from RV Ocean Explorer in Coastal Waters of Gulf of Mexico from 2020-01-12 to 2020-02-23, on 2020-03-05 15:17:39 via S2N.

Your data, identified as NCEI Accession Number 0209251, are now publicly accessible online via the NCEI Ocean Archive System at <https://accession.nodc.noaa.gov/0209251>. Use this link, <https://accession.nodc.noaa.gov/0209251/data/0-data>, to access the original data files in the NCEI archival information package.

These data will be discoverable via the NCEI Geoportal (<https://data.nodc.noaa.gov/geoportal>) and other online discovery tools, such as Data.gov about 24 hours after you receive this email.

If at any time you wish to update the content of NCEI Accession Number 0209251, please send an e-mail to NODC.DataOfficer@noaa.gov. Please remember to include the NCEI Accession Number.

No additional action is required from you at this time: This is a system-generated email notification to complete the Send2NCEI submission tracking process. Please let me know if you have any additional questions about NCEI archival activities or your archived data package. Thank you again for choosing to archive your data with the National Centers for Environmental Information (NCEI).

Regards,
Alexandra Grodsky
Alexandra.Grodsky@noaa.gov

Subject: [Send2NCEI] data submission confirmation for Reference ID: P46AC9
From: NODC.DataOfficer@noaa.gov
To: jjd@oceansurveys.com

Dear Joseph DiPalma,

Thank you for submitting your data collection, titled "SOUND VELOCITY collected from RV Ocean Explorer in Coastal Waters of Gulf of Mexico from 2020-01-12 to 2020-02-23", to the NOAA National Centers for Environmental Information (NCEI). Your submission package has been assigned Reference ID: P46AC9. After reviewing your data and metadata, NCEI will update you about the archival status of your submission package.

You will be notified if NCEI creates an archival information package (accession) of your data, including the unique identifier for that archival information package (the NCEI Accession number). When your data are archived, NCEI keeps an exact copy of the data and metadata you sent and will develop necessary tracking and discovery metadata. In addition, NCEI may create additional versions to ensure your data are preserved for long-term access.

Upon completion of these archival ingest actions, NCEI will publish your data online (including a copy of your original files). You will receive another email once your submission package (Reference ID: P46AC9) is published for global access. In addition, NCEI may include all or part of your data into one or more product databases, such as the World Ocean Database.

No additional action is required from you at this time: This is a system-generated email notification to complete the Send2NCEI submission tracking process. If you have any questions about NCEI archival processes, please contact NODC.DataOfficer@noaa.gov. Also, if at any time you wish to update your submission package, please send an e-mail to NODC.DataOfficer@noaa.gov with your request. Please remember to include your submission package Reference ID.

Thank you again for choosing to archive your data with the National Centers for Environmental Information (NCEI).

NCEI Data Officer Team
NOAA National Centers for Environmental Information
NOAA/NESDIS
1315 East-West Highway
Silver Spring, MD 20910
USA

From: [Joseph DiPalma](#)
To: [Kelley Bostrom](#); [David Somers](#); [John R. Bean](#)
Subject: Fw: NCEI online publication confirmation of NCEI Accession 0209252
Date: Monday, March 23, 2020 5:07:26 PM

Acceptance of NCEI svp data for OE 2019

----- Forwarded Message -----

From: Alexandra.Grodsky@noaa.gov <alexandra.grodsky@noaa.gov>
To: "jjd@oceansurveys.com" <jjd@oceansurveys.com>
Cc: "alexandra.grodsky@noaa.gov" <alexandra.grodsky@noaa.gov>
Sent: Monday, March 23, 2020, 04:45:10 PM EDT
Subject: NCEI online publication confirmation of NCEI Accession 0209252

Dear Joseph DiPalma,

Thank you for sending your data and metadata files to be archived and published by the NOAA National Centers for Environmental Information (NCEI). NCEI received these data, SOUND VELOCITY collected from RV Ocean Explorer in Coastal Waters of Gulf of Mexico from 2019-09-06 to 2019-12-15, on 2020-03-05 15:08:37 via S2N.

Your data, identified as NCEI Accession Number 0209252, are now publicly accessible online via the NCEI Ocean Archive System at <https://accession.nodc.noaa.gov/0209252>. Use this link, <https://accession.nodc.noaa.gov/0209252/data/0-data>, to access the original data files in the NCEI archival information package.

These data will be discoverable via the NCEI Geoportal (<https://data.nodc.noaa.gov/geoportal>) and other online discovery tools, such as Data.gov about 24 hours after you receive this email.

If at any time you wish to update the content of NCEI Accession Number 0209252, please send an e-mail to NODC.DataOfficer@noaa.gov. Please remember to include the NCEI Accession Number.

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Regards,
Alexandra Grodsky
Alexandra.Grodsky@noaa.gov

Subject: [Send2NCEI] data submission confirmation for Reference ID: X6JDJT
From: NODC.DataOfficer@noaa.gov
To: jjd@oceansurveys.com

Dear Joseph DiPalma,

Thank you for submitting your data collection, titled "SOUND VELOCITY collected from RV Ocean Explorer in Coastal Waters of Gulf of Mexico from 2019-09-06 to 2019-12-15", to the NOAA National Centers for Environmental Information (NCEI). Your submission package has been assigned Reference ID: X6JDJT. After reviewing your data and metadata, NCEI will update you about the archival status of

your submission package.

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Thank you again for choosing to archive your data with the National Centers for Environmental Information (NCEI).

NCEI Data Officer Team
NOAA National Centers for Environmental Information
NOAA/NESDIS
1315 East-West Highway
Silver Spring, MD 20910
USA

From: [Joseph DiPalma](#)
To: [Kelley Bostrom](#); [David Somers](#); [John R. Bean](#)
Subject: Fw: NCEI online publication confirmation of NCEI Accession 0209250
Date: Monday, March 23, 2020 5:08:09 PM

Stout 2019

----- Forwarded Message -----

From: Alexandra.Grodsky@noaa.gov <alexandra.grodsky@noaa.gov>
To: "jjd@oceansurveys.com" <jjd@oceansurveys.com>
Cc: "alexandra.grodsky@noaa.gov" <alexandra.grodsky@noaa.gov>
Sent: Monday, March 23, 2020, 05:00:09 PM EDT
Subject: NCEI online publication confirmation of NCEI Accession 0209250

Dear Joseph DiPalma,

Thank you for sending your data and metadata files to be archived and published by the NOAA National Centers for Environmental Information (NCEI). NCEI received these data, SOUND VELOCITY collected from RV H.F. Stout in Coastal Waters of Gulf of Mexico from 2019-09-07 to 2019-12-13, on 2020-03-05 14:53:23 via S2N.

Your data, identified as NCEI Accession Number 0209250, are now publicly accessible online via the NCEI Ocean Archive System at <https://accession.nodc.noaa.gov/0209250>. Use this link, <https://accession.nodc.noaa.gov/0209250/data/0-data>, to access the original data files in the NCEI archival information package.

These data will be discoverable via the NCEI Geoportal (<https://data.nodc.noaa.gov/geoportal>) and other online discovery tools, such as Data.gov about 24 hours after you receive this email.

If at any time you wish to update the content of NCEI Accession Number 0209250, please send an e-mail to NODC.DataOfficer@noaa.gov. Please remember to include the NCEI Accession Number.

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Regards,
Alexandra Grodsky
Alexandra.Grodsky@noaa.gov

Subject: [Send2NCEI] data submission confirmation for Reference ID: 6FEF1X
From: NODC.DataOfficer@noaa.gov
To: jjd@oceansurveys.com

Dear Joseph DiPalma,

Thank you for submitting your data collection, titled "SOUND VELOCITY collected from RV H.F. Stout in Coastal Waters of Gulf of Mexico from 2019-09-07 to 2019-12-13", to the NOAA National Centers for Environmental Information (NCEI). Your submission package has been assigned Reference ID: 6FEF1X. After reviewing your data and metadata, NCEI will update you about the archival status of your submission package.

You will be notified if NCEI creates an archival information package (accession) of your data, including the unique identifier for that archival information package (the NCEI Accession number). When your data are archived, NCEI keeps an exact copy of the data and metadata you sent and will develop necessary tracking and discovery metadata. In addition, NCEI may create additional versions to ensure your data are preserved for long-term access.

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NCEI Data Officer Team
NOAA National Centers for Environmental Information
NOAA/NESDIS
1315 East-West Highway
Silver Spring, MD 20910
USA

From: [Joseph DiPalma](#)
To: [Kelley Bostrom](#); [David Somers](#); [John R. Bean](#)
Subject: Fw: NCEI online publication confirmation of NCEI Accession 0209249
Date: Monday, March 23, 2020 5:08:27 PM

Stout 2020

----- Forwarded Message -----

From: Alexandra.Grodsky@noaa.gov <alexandra.grodsky@noaa.gov>
To: "jjd@oceansurveys.com" <jjd@oceansurveys.com>
Cc: "alexandra.grodsky@noaa.gov" <alexandra.grodsky@noaa.gov>
Sent: Monday, March 23, 2020, 05:00:19 PM EDT
Subject: NCEI online publication confirmation of NCEI Accession 0209249

Dear Joseph DiPalma,

Thank you for sending your data and metadata files to be archived and published by the NOAA National Centers for Environmental Information (NCEI). NCEI received these data, SOUND VELOCITY collected from RV H.F. Stout in Coastal Waters of Gulf of Mexico from 2020-01-18 to 2020-01-18, on 2020-03-05 14:54:50 via S2N.

Your data, identified as NCEI Accession Number 0209249, are now publicly accessible online via the NCEI Ocean Archive System at <https://accession.nodc.noaa.gov/0209249>. Use this link, <https://accession.nodc.noaa.gov/0209249/data/0-data>, to access the original data files in the NCEI archival information package.

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Regards,
Alexandra Grodsky
Alexandra.Grodsky@noaa.gov

Subject: [Send2NCEI] data submission confirmation for Reference ID: A75G3E
From: NODC.DataOfficer@noaa.gov
To: jjd@oceansurveys.com

Dear Joseph DiPalma,

Thank you for submitting your data collection, titled "SOUND VELOCITY collected from RV H.F. Stout in Coastal Waters of Gulf of Mexico from 2020-01-18 to 2020-01-18", to the NOAA National Centers for Environmental Information (NCEI). Your submission package has been assigned Reference ID: A75G3E. After reviewing your data and metadata, NCEI will update you about the archival status of your submission package.

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NCEI Data Officer Team
NOAA National Centers for Environmental Information
NOAA/NESDIS
1315 East-West Highway
Silver Spring, MD 20910
USA

From: [Joseph DiPalma](#)
To: [Kelley Bostrom](#); [David Somers](#); [John R. Bean](#)
Subject: Fw: [Send2NCEI] data submission confirmation for Reference ID: EF4MXG
Date: Wednesday, March 18, 2020 2:52:06 PM

Submission for OE sheets 13 and 15

----- Forwarded Message -----

From: "nodc.dataofficer@noaa.gov" <nodc.dataofficer@noaa.gov>
To: "jjd@oceansurveys.com" <jjd@oceansurveys.com>
Sent: Wednesday, March 18, 2020, 02:45:11 PM EDT
Subject: [Send2NCEI] data submission confirmation for Reference ID: EF4MXG

Dear Joseph DiPalma,

Thank you for submitting your data collection, titled "SOUND VELOCITY collected from RV Ocean Explorer in Coastal Waters of Gulf of Mexico from 2019-09-06 to 2020-03-11", to the NOAA National Centers for Environmental Information (NCEI). Your submission package has been assigned Reference ID: EF4MXG. After reviewing your data and metadata, NCEI will update you about the archival status of your submission package.

You will be notified if NCEI creates an archival information package (accession) of your data, including the unique identifier for that archival information package (the NCEI Accession number). When your data are archived, NCEI keeps an exact copy of the data and metadata you sent and will develop necessary tracking and discovery metadata. In addition, NCEI may create additional versions to ensure your data are preserved for long-term access.

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NCEI Data Officer Team
NOAA National Centers for Environmental Information
NOAA/NESDIS
1315 East-West Highway
Silver Spring, MD 20910
USA

From: [Joseph DiPalma](#)
To: [Kelley Bostrom](#); [David Somers](#); [John R. Bean](#)
Subject: Fw: [Send2NCEI] data submission confirmation for Reference ID: T4B23Y
Date: Wednesday, March 18, 2020 2:54:37 PM

Submission for Stout sheets 13 and 15

----- Forwarded Message -----

From: "nodc.dataofficer@noaa.gov" <nodc.dataofficer@noaa.gov>
To: "jjd@oceansurveys.com" <jjd@oceansurveys.com>
Sent: Wednesday, March 18, 2020, 02:45:14 PM EDT
Subject: [Send2NCEI] data submission confirmation for Reference ID: T4B23Y

Dear Joseph DiPalma,

Thank you for submitting your data collection, titled "SOUND VELOCITY collected from RV H.F. Stout in Coastal Waters of Gulf of Mexico from 2019-10-03 to 2020-03-10", to the NOAA National Centers for Environmental Information (NCEI). Your submission package has been assigned Reference ID: T4B23Y. After reviewing your data and metadata, NCEI will update you about the archival status of your submission package.

You will be notified if NCEI creates an archival information package (accession) of your data, including the unique identifier for that archival information package (the NCEI Accession number). When your data are archived, NCEI keeps an exact copy of the data and metadata you sent and will develop necessary tracking and discovery metadata. In addition, NCEI may create additional versions to ensure your data are preserved for long-term access.

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NCEI Data Officer Team
NOAA National Centers for Environmental Information
NOAA/NESDIS
1315 East-West Highway
Silver Spring, MD 20910
USA

NCEI acceptance confirmation for Reference ID: EF4MXG

From: alexandra.grodsky@noaa.gov
To: jjd@oceansurveys.com
Cc: alexandra.grodsky@noaa.gov
Date: Wednesday, March 25, 2020, 05:46 PM EDT

Dear Joseph DiPalma:

Thank you for sending your data and metadata files to the NOAA National Centers for Environmental Information (NCEI). NCEI received these data, SOUND VELOCITY collected from RV Ocean Explorer in Coastal Waters of Gulf of Mexico from 2019-09-06 to 2020-03-11, on 2020-03-18 18:37:37 via S2N.

After reviewing your submission package (metadata and data), I assigned your submission an NCEI Accession Number 0209229. This number is a tracking identifier for the NCEI Ocean Archive. Please reference this number when corresponding with NCEI about these data.

You can find information about these archived data at <https://accession.nodc.noaa.gov/0209229>.

After further reviewing your data, creating any additional representations of these data in a format that is more preservable in the NCEI Ocean Archive, and developing necessary tracking metadata, NCEI will publish these archived data online. You may access the archival copy of your original data via the link listed above.

In addition to creating an archival copy of these data, NCEI may include all or part of your data into one or more product databases, such as the World Ocean Database.

No additional action is required from you at this time: This is a system-generated email notification to complete the Send2NCEI submission tracking process. Please let me know if you have any questions or if you have additional data and documentation that you would like to archive with these data.

Thank you again for choosing to archive your data with the National Centers for Environmental Information (NCEI).

Regards,
Alexandra Grodsky
Alexandra.Grodsky@noaa.gov

Subject: [Send2NCEI] data submission confirmation for Reference ID: EF4MXG
From: NODC.DataOfficer@noaa.gov
To: jjd@oceansurveys.com

Dear Joseph DiPalma,

Thank you for submitting your data collection, titled "SOUND VELOCITY collected from RV Ocean Explorer in Coastal Waters of Gulf of Mexico from 2019-09-06 to 2020-03-11", to the NOAA National Centers for Environmental Information (NCEI). Your submission package has been assigned Reference ID: EF4MXG. After reviewing your data and metadata, NCEI will update you about the archival status of your submission package.

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Thank you again for choosing to archive your data with the National Centers for Environmental Information (NCEI).

NCEI Data Officer Team
NOAA National Centers for Environmental Information
NOAA/NESDIS
1315 East-West Highway
Silver Spring, MD 20910
USA

NCEI acceptance confirmation for Reference ID: T4B23Y

From: alexandra.grodsky@noaa.gov

To: jjd@oceansurveys.com

Cc: alexandra.grodsky@noaa.gov

Date: Wednesday, March 25, 2020, 05:45 PM EDT

Dear Joseph DiPalma:

Thank you for sending your data and metadata files to the NOAA National Centers for Environmental Information (NCEI). NCEI received these data, SOUND VELOCITY collected from RV H.F. Stout in Coastal Waters of Gulf of Mexico from 2019-10-03 to 2020-03-10, on 2020-03-18 18:39:05 via S2N.

After reviewing your submission package (metadata and data), I assigned your submission an NCEI Accession Number 0209228. This number is a tracking identifier for the NCEI Ocean Archive. Please reference this number when corresponding with NCEI about these data.

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Regards,
Alexandra Grodsky
Alexandra.Grodsky@noaa.gov

Subject: [Send2NCEI] data submission confirmation for Reference ID: T4B23Y

From: NODC.DataOfficer@noaa.gov

To: jjd@oceansurveys.com

Dear Joseph DiPalma,

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NCEI Data Officer Team
NOAA National Centers for Environmental Information
NOAA/NESDIS
1315 East-West Highway
Silver Spring, MD 20910
USA

NCEI online publication confirmation of NCEI Accession 0209228

From: alexandra.grodsky@noaa.gov

To: jjd@oceansurveys.com

Cc: alexandra.grodsky@noaa.gov

Date: Friday, March 27, 2020, 03:15 PM EDT

Dear Joseph DiPalma,

Thank you for sending your data and metadata files to be archived and published by the NOAA National Centers for Environmental Information (NCEI). NCEI received these data, SOUND VELOCITY collected from RV H.F. Stout in Coastal Waters of Gulf of Mexico from 2019-10-03 to 2020-03-10, on 2020-03-18 18:39:05 via S2N.

Your data, identified as NCEI Accession Number 0209228, are now publicly accessible online via the NCEI Ocean Archive System at <https://accession.nodc.noaa.gov/0209228>. Use this link, <https://accession.nodc.noaa.gov/0209228/data/0-data>, to access the original data files in the NCEI archival information package.

These data will be discoverable via the NCEI Geoportal (<https://data.nodc.noaa.gov/geoportal>) and other online discovery tools, such as Data.gov about 24 hours after you receive this email.

If at any time you wish to update the content of NCEI Accession Number 0209228, please send an e-mail to NODC.DataOfficer@noaa.gov. Please remember to include the NCEI Accession Number.

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Alexandra Grodsky
Alexandra.Grodsky@noaa.gov

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From: NODC.DataOfficer@noaa.gov

To: jjd@oceansurveys.com

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Silver Spring, MD 20910
USA

NCEI online publication confirmation of NCEI Accession 0209229

From: alexandra.grodsky@noaa.gov

To: jjd@oceansurveys.com

Cc: alexandra.grodsky@noaa.gov

Date: Friday, March 27, 2020, 03:00 PM EDT

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Alexandra Grodsky
Alexandra.Grodsky@noaa.gov

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From: NODC.DataOfficer@noaa.gov

To: jjd@oceansurveys.com

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NCEI Data Officer Team
NOAA National Centers for Environmental Information
NOAA/NESDIS
1315 East-West Highway
Silver Spring, MD 20910
USA

From: [David Somers](#)
To: survey.outlines@noaa.gov; [Douglas Wood - NOAA Federal](#); [Kathryn Pridgen - NOAA Federal](#); [Christina Fandel - NOAA Federal](#)
Cc: [John R. Bean](#); [George Reynolds](#)
Subject: Survey Outlines for OPR-K354-KR-19
Date: Friday, April 3, 2020 9:02:53 AM
Attachments: [H13312 Survey Outline.000](#)
[H13313 Survey Outline.000](#)
[H13314 Survey Outline.000](#)
[H13315 Survey Outline.000](#)
[H13316 Survey Outline.000](#)
[H13317 Survey Outline.000](#)
[H13318 Survey Outline.000](#)
[H13319 Survey Outline.000](#)

Good Morning,

Attached are the survey outlines for H13312, H13313, H13314, H13315, H13316, H13317, H13318, and H13319 under project number OPR-K354-KR-19.

Please let me know if there is any additional information required.

Regards,

Dave

David Somers
Data Processing Manager

OCEAN SURVEYS, INC.
129 Mill Rock Road East, Old Saybrook, CT 06475
T 860-388-4631 x135 **M** 860-575-3361 **F** 860-388-5879
dts@oceansurveys.com | www.oceansurveys.com

APPROVAL PAGE

H13318

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 NCEI for archive

- Descriptive Report
- Data Acquisition and Processing Report
- Collection of Bathymetric Attributed Grids (BAGs)
- Processed survey data and records
- Geospatial PDF of survey products
- Collection of backscatter mosaics

The survey evaluation and verification have been conducted according to current OCS specifications, and the survey has been approved for dissemination and usage of updating NOAA's suite of nautical charts.

Approved: _____

Commander Meghan McGovern, NOAA
Chief, Atlantic Hydrographic Branch