

H13231

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

DESCRIPTIVE REPORT

Type of Survey: Navigable Area
Support NMS

Registry Number: H13231

LOCALITY

State(s): Louisiana

General Locality: Flower Garden Banks National Marine Sanctuary

Sub-locality: Antoine and Elvers

2020

CHIEF OF PARTY
CDR Briana Hillstrom, NOAA

LIBRARY & ARCHIVES

Date:

HYDROGRAPHIC TITLE SHEET

H13231

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: **Flower Garden Banks National Marine Sanctuary**

Sub-Locality: **Antoine and Elvers**

Scale: **80000**

Dates of Survey: **09/29/2020 to 10/01/2020**

Instructions Dated: **02/28/2020**

Project Number: **OPR-K306-TJ-20**

Field Unit: **NOAA Ship *Thomas Jefferson***

Chief of Party: **CDR Briana Hillstrom, NOAA**

Soundings by: **Multibeam Echo Sounder**

Imagery by: **Multibeam Echo Sounder Backscatter**

Verification by: **Atlantic Hydrographic Branch**

Soundings Acquired in: **meters at Mean Lower Low Water**

Remarks:

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/>. 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.

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Descriptive Report to Accompany Survey H13231

Project: OPR-K306-TJ-20

Locality: Flower Garden Banks National Marine Sanctuary

Sublocality: Antoine and Elvers

Scale: 1:80000

September 2020 - October 2020

NOAA Ship *Thomas Jefferson*

Chief of Party: CDR Briana Hillstrom, NOAA

A. Area Surveyed

Survey H13231, located in the vicinity of Flower Garden Banks National Marine Sanctuary within the sub locality of Antoine and Elvers was conducted in accordance with coverage requirements set forth in the Project Instructions OPR-K306-TJ-20.

A.1 Survey Limits

Data were acquired within the following survey limits:

Northwest Limit	Southeast Limit
27° 52' 40" N 93° 5' 21" W	27° 46' 55" N 92° 16' 56" W

Table 1: Survey Limits

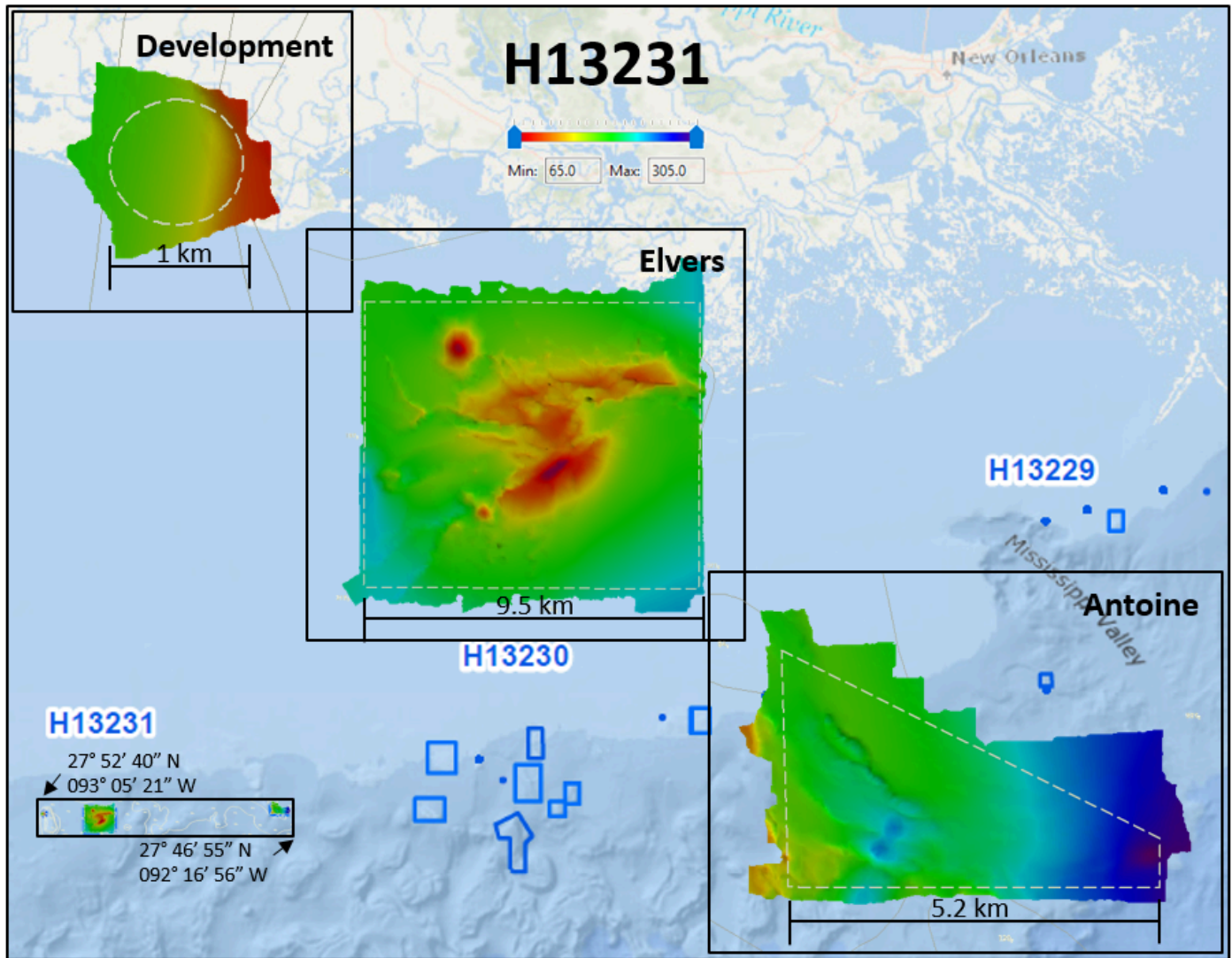


Figure 1: Survey layout for H13231 plotted over Esri bathymetric image. Dotted gray line represents the survey limits set forth by the Project Instructions.

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

A.2 Survey Purpose

This project will support the Bureau of Ocean Energy Management (BOEM) and the Flower Garden Banks National Marine Sanctuary (FGBNMS) in their efforts to effectively protect ecologically sensitive and important areas within the Northwestern Gulf of Mexico. Over the past seventeen years FGBNMS has successfully acquired multibeam echo sounder (MBES) data over numerous BOEM defined Topographic Features. These Topographic Features are geologic formations that support diverse communities of a high aesthetic, scientific, and economic value.(1) No Activity Zones (NAZ), declared by the BOEM, are designed

to protect the most ecologically sensitive areas of the named Topographic Features.(2) However, the NAZ boundaries have not been updated since the original implementation in the 1970s/80s and BOEM will use the newly acquired bathymetry data in an evaluation of and possible updates to the NAZ boundary configurations in order to effectively protecting these crucial ecosystems. This project will generate high resolution data that will provide the basis for habitat characterization and ground-truthing activities for years to come. Past MBES surveys completed with the same purpose as this project have directly fed into the expansion of the sanctuary boundary.

None of the nine banks to be surveyed in this project have been surveyed to modern standards. Four out of these nine banks overlap with the highly trafficked safety fairway connecting the Mississippi River to other high commerce ports to the west, such as Galveston and Corpus Christi.(3) Not only will this survey aid in the protection of ecologically significant communities, it will also enhance navigational safety via this fairway. Survey data from this project is intended to supersede all prior survey data in the common area, it will provide contemporary data to update National Ocean Service (NOS) nautical charting products, and will be used to enhance environmental protections of ecologically important areas.

(1) United States Department of the Interior Minerals Management Service Gulf of Mexico OCS Region. “Notice to Lessees and Operations of Federal Oil, Gas, and Sulphur Leases and Pipeline Right-of-Way Holders Outer Continental Shelf, Gulf of Mexico OCS Region.” NTL No. 2009-G39.

(2) US Department of the Interior Bureau of Ocean Energy Management. “Western and Central Gulf of Mexico Topographic Features Stipulation Map Package for Oil and Gas Leases in the Gulf of Mexico.” March 2018.

(3) US Department of the Interior Bureau of Ocean Energy Management Gulf of Mexico OCS Region. “Biologically Sensitive Areas (<300m).” December 2012.

A.3 Survey Quality

The entire survey is adequate to supersede previous data.

Data acquired for H13231 meet multibeam echo sounder (MBES) coverage requirements for complete coverage as required by the HSSD dated May 2020. This includes crosslines (see Section B.2.1), NOAA allowable uncertainty (see Section B.2.10), and density requirements (see Section B.2.11).

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

Table 2: Survey Coverage

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

A.6 Survey Statistics

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

	HULL ID	<i>S222</i>	<i>Total</i>
LNM	SBES Mainscheme	0	0
	MBES Mainscheme	145.3	145.3
	Lidar Mainscheme	0	0
	SSS Mainscheme	0	0
	SBES/SSS Mainscheme	0	0
	MBES/SSS Mainscheme	0	0
	SBES/MBES Crosslines	9.1	9.1
	Lidar Crosslines	0	0
Number of Bottom Samples			0
Number Maritime Boundary Points Investigated			0
Number of DPs			0
Number of Items Investigated by Dive Ops			0
Total SNM			29*

**Total square nautical miles was calculated to be 31.71 SNM during office processing.*

Table 3: Hydrographic Survey Statistics

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

Survey Dates	Day of the Year
09/29/2020	273
09/30/2020	274
10/01/2020	275

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>S222</i>
LOA	63.4 meters
Draft	4.6 meters

Table 5: Vessels Used

B.1.2 Equipment

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

Manufacturer	Model	Type
Kongsberg Maritime	EM 710	MBES
Kongsberg Maritime	EM 710	MBES Backscatter
Sea-Bird Scientific	SBE 19plus V2	Conductivity, Temperature, and Depth Sensor
AML Oceanographic	MVP-X	Conductivity, Temperature, and Depth Sensor
ODIM Brooke Ocean	MVP100	Sound Speed System
Applanix	POS MV 320 v5	Positioning and Attitude System
Valeport	Thru-Hull SVS	Sound Speed System

Table 6: Major Systems Used

Vessel configurations, equipment operations, data acquisition, and processing were consistent with specifications described in the DAPR.

B.2 Quality Control

B.2.1 Crosslines

S222 collected 9.1 linear nautical miles of MBES crosslines, or 6.26% of mainscheme MBES data. A variable resolution (VR) Combined Uncertainty and Bathymetry Estimator (CUBE) surface of mainscheme data and a VR CUBE surface of crossline data were differenced (Figure 2) - the resulting mean was 0.02m with a standard deviation of 0.49 (Figure 3). Visual inspection of the difference surface indicated no systematic issues.

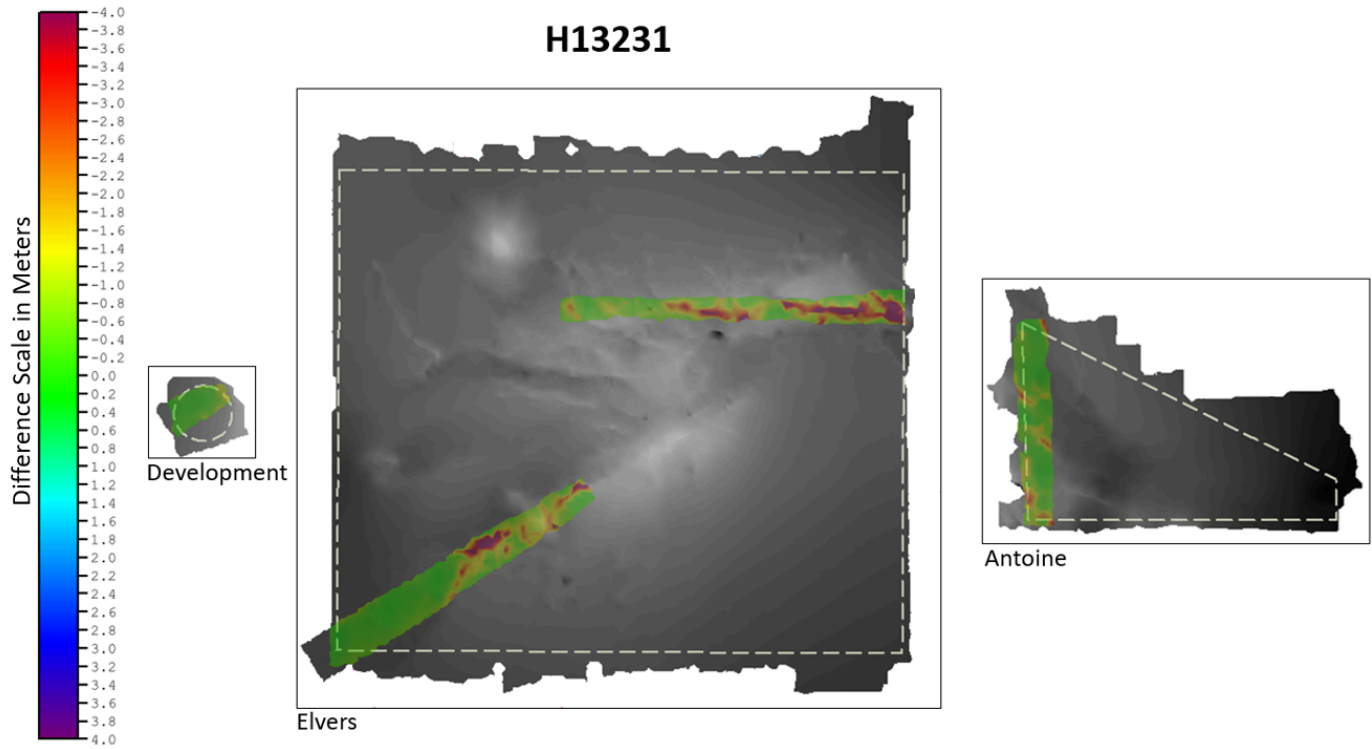


Figure 2: H13231 MBES crossline and mainscheme difference surface, shown in color, overlaid on mainscheme surface, shown in grayscale. Areas of highest difference associated with structurally prominent areas.

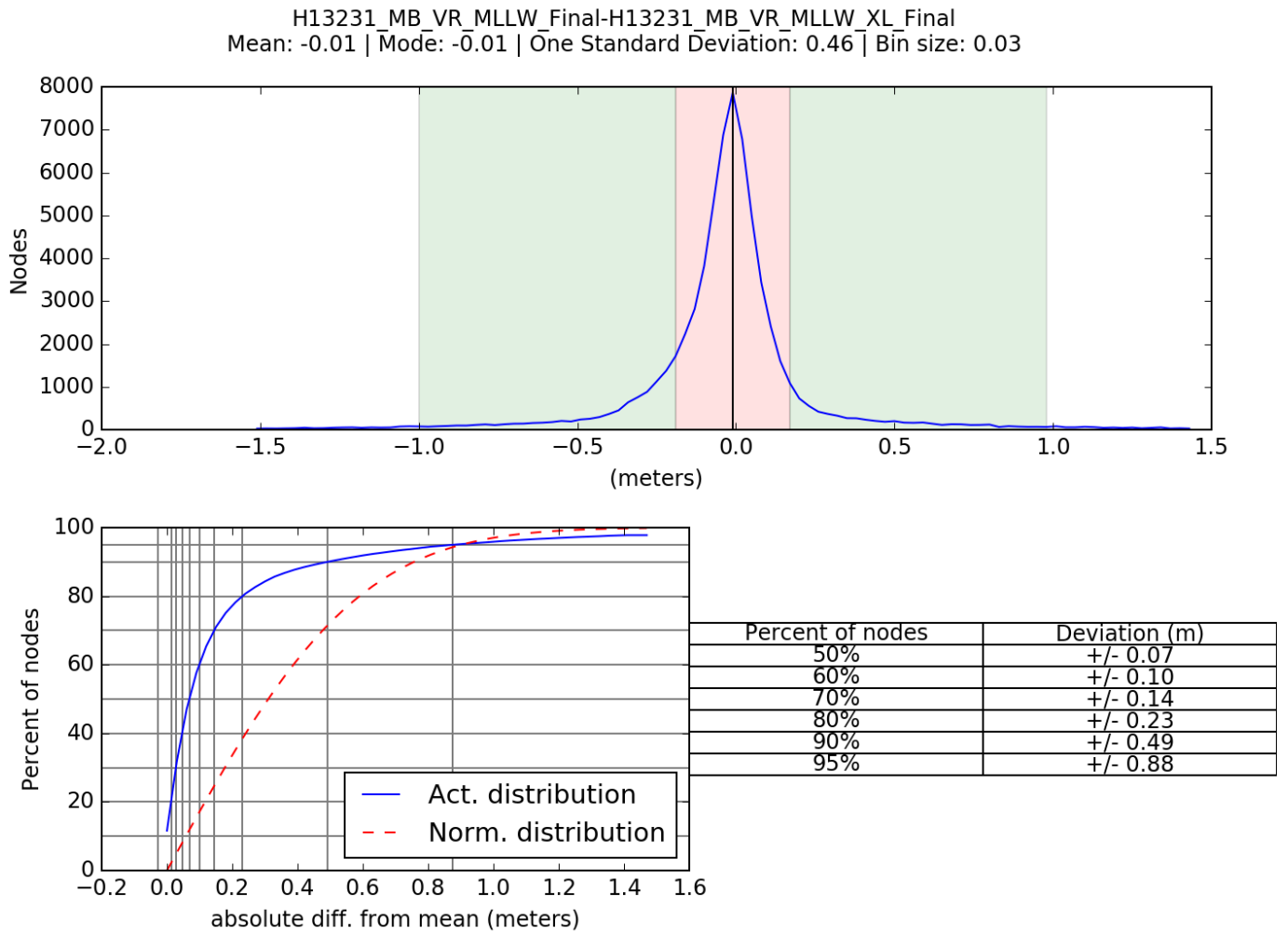


Figure 3: H13231 crossline/mainscheme comparison

B.2.2 Uncertainty

The following survey specific parameters were used for this survey:

Method	Measured	Zoning
ERS via ERTDM	0 meters	0.10 meters

Table 7: Survey Specific Tide TPU Values.

Hull ID	Measured - CTD	Measured - MVP	Measured - XBT	Surface
S222	4.0 meters/second	4.0 meters/second	0 meters/second	0.2 meters/second

Table 8: Survey Specific Sound Speed TPU Values.

The bathymetric surface's uncertainty layer is compliant with HSSD 2020 uncertainty standards. Over 99.5% of all nodes pass uncertainty standards (Figure 4).

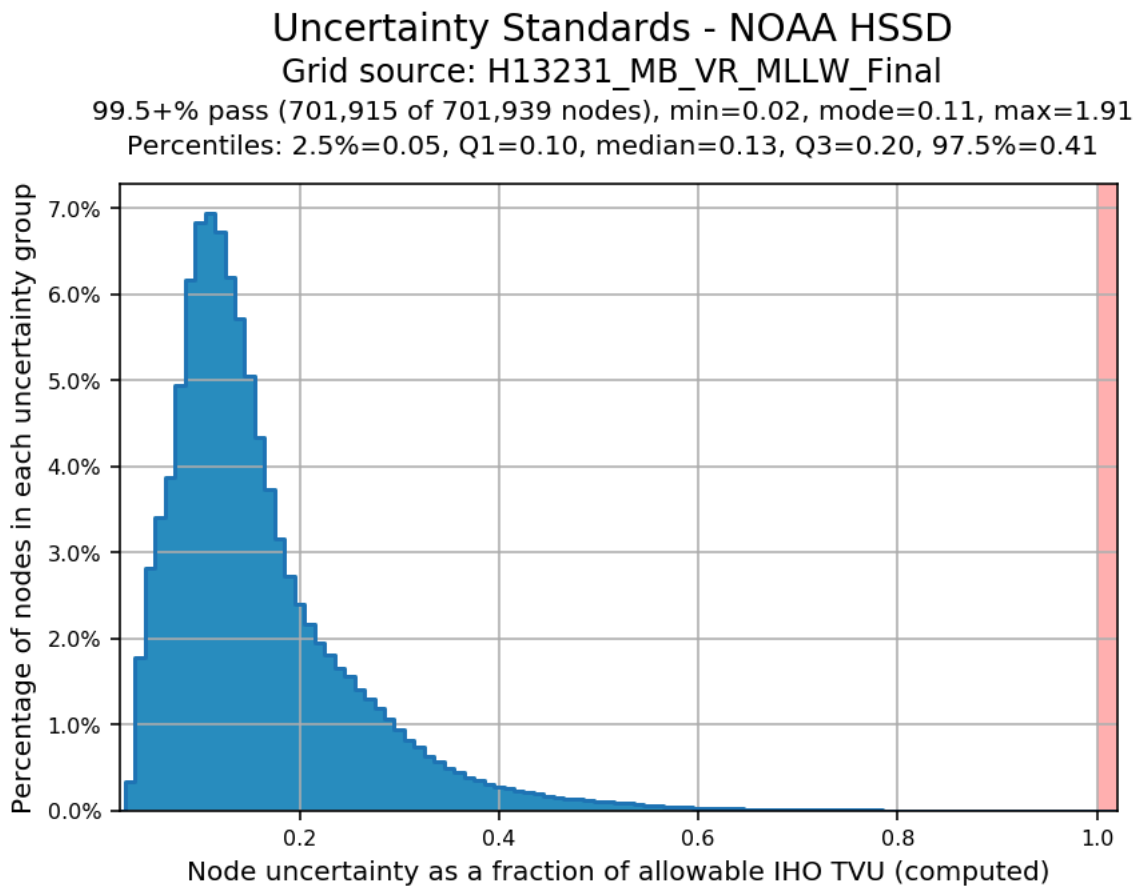


Figure 4: H13231 uncertainty standards

B.2.3 Junctions

There are no contemporary surveys that junction with this survey.

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

There were no other factors that affected corrections to soundings.

B.2.7 Sound Speed Methods

Sound Speed Cast Frequency: CTD casts were conducted to the greatest depths of each survey area prior to MBES acquisition and were used to ground-truth and extend MVP casts taken every hour.

Casts were extended, as needed, using CTD casts and the World Ocean Atlas 09 (WOA09) before being transmitted to SIS and exported for data processing. All casts were relatively consistent and the resulting SIS data did not indicate any need for more frequent casts. Refer to Figure 5 for locations of sound speed casts.

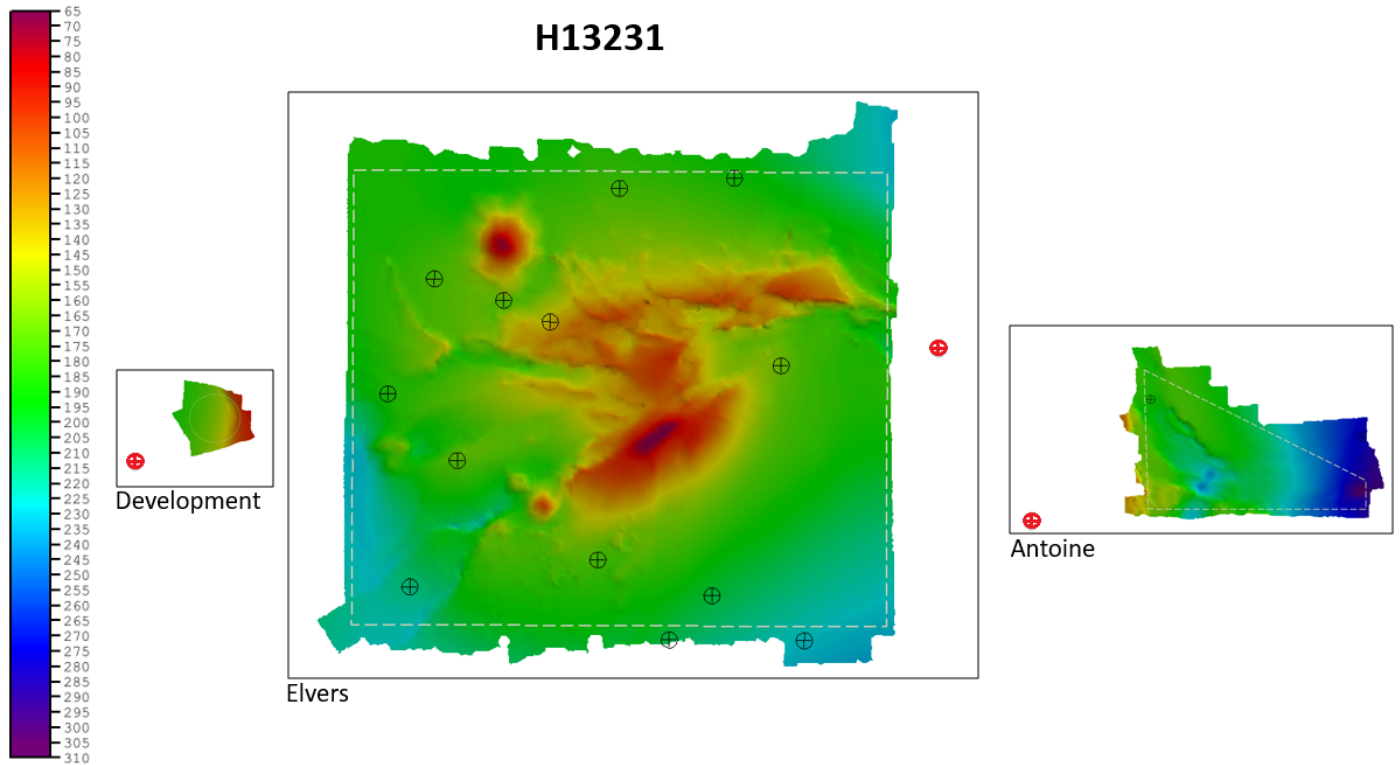


Figure 5: H13231 depth basemap with overlaid CTD locations in red and MVP locations in black .

B.2.8 Coverage Equipment and Methods

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

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

All equipment and survey methods were used as detailed in the DAPR. Raw MBES backscatter was logged as part of the .all file of the Kongsberg EM2040 system. Backscatter was processed in QPS Fledermaus GeoCoder Toolbox (FMGT) software, and the exported geotiffs are included in the final processed data package. Holidays present in the backscatter image are a result of not including crossline data into the backscatter mosaic and from generating the surface on a finer grid than the MBES surface. Refer to Figure 6 for grayscale imagery of the Elvers and Antoine backscatter result.

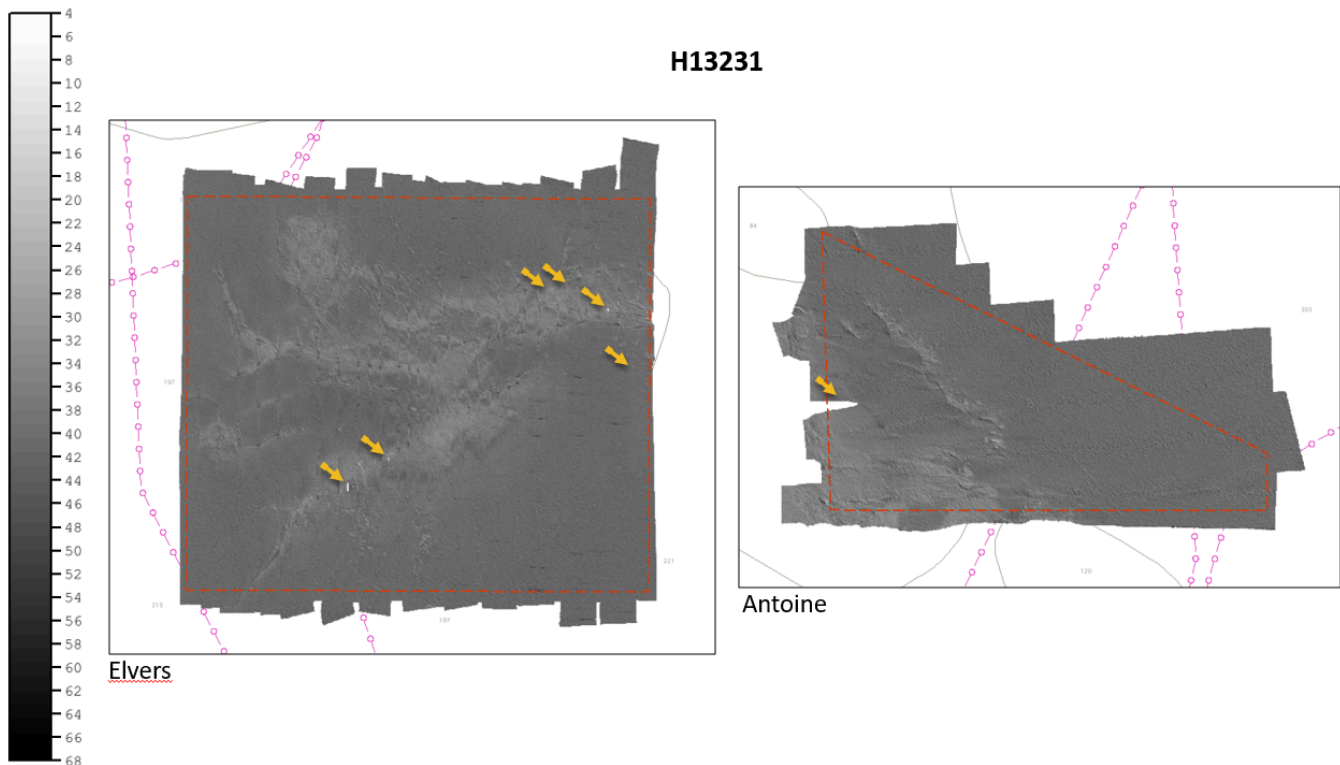


Figure 6: S222 100 kHz multibeam acoustic backscatter at 6m resolution overlaid on ENC US3GCC03M. Red outline represents the survey limit set forth by the Project Instructions. Yellow arrows indicate known holiday locations that were covered by cross lines not included in backscatter processing.

B.5 Data Processing

B.5.1 Primary Data Processing Software

The following Feature Object Catalog was used: NOAA Profile Version 2020.

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
H13231_MB_VR_MLLW	CARIS VR Surface (CUBE)	Variable Resolution	65.9 meters - 306.2 meters	NOAA_VR	Complete MBES
H13231_MB_VR_MLLW_FINAL	CARIS VR Surface (CUBE)	Variable Resolution	65.9 meters - 306.2 meters	NOAA_VR	Complete MBES
H13231_MBAB_6m_S222_100kHz_1of1	MB Backscatter Mosaic	6m N/A	-	N/A	Complete MBES

Table 9: Submitted Surfaces

Complete coverage requirements were met by complete coverage MBES as specified under section 5.2.2.1 of the 2020 HSSD. All bathymetric grids for H13231 meet density requirements per the 2020 HSSD (Figure 7).

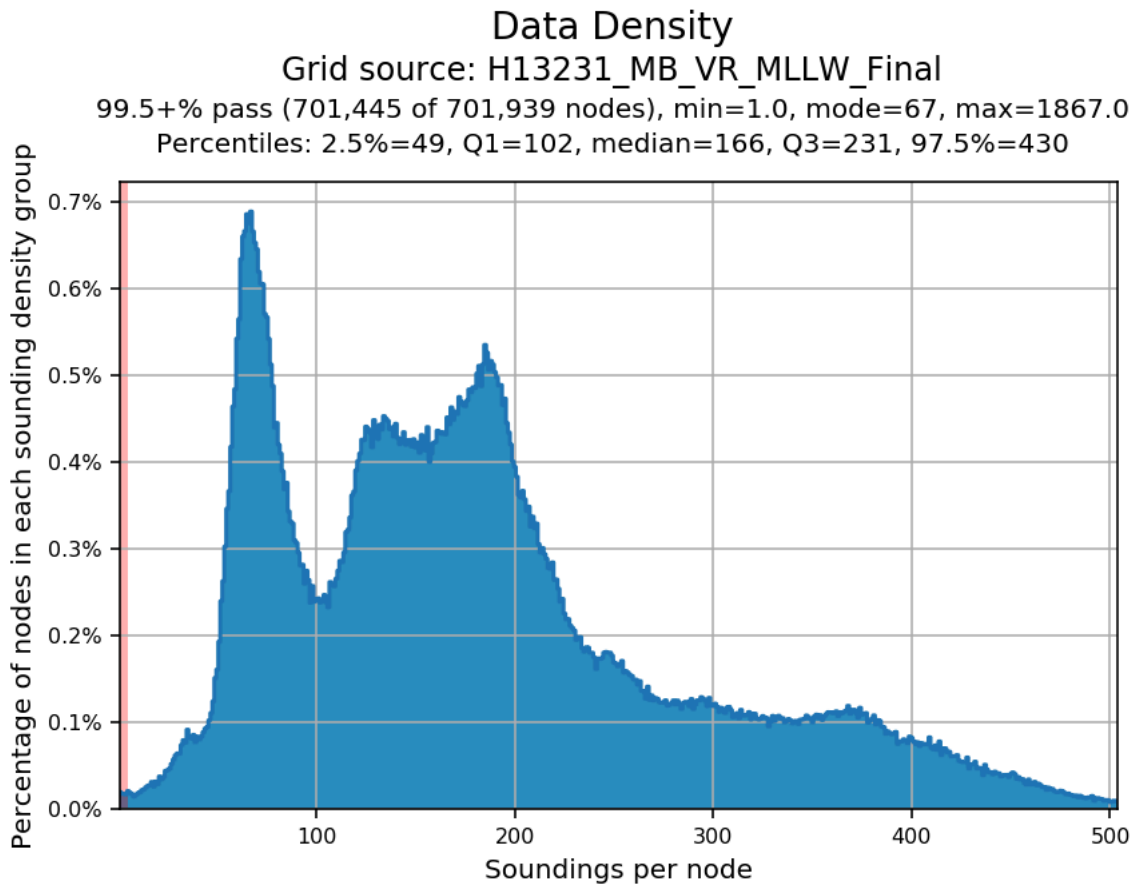


Figure 7: H13231 data density standards.

C. Vertical and Horizontal Control

No Horizontal and Vertical Control Report (HVCR) is required for this survey.

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 ERTDM	OPR-K306-TJ-20_ERTDM_NAD83_MLLW_09262020

Table 10: ERS method and SEP file

All soundings submitted for H13231 are reduced to MLLW using separation model techniques as outlined in the DAPR.

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.

PPP

Trimble-RTX service was used with an Applanix POS MVv5 GNSS_INS system to obtain highly accurate ellipsoidally referenced position data to meet ERS specifications for H13228 MBES data from vessel S222.

WAAS

The Wide Area Augmentation System (WAAS) was used for real-time horizontal control during data acquisition.

D. Results and Recommendations

D.1 Chart Comparison

A chart comparison was conducted between survey H13231 soundings and previously charted ENC soundings using procedures outlined in the DAPR.

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
US3GC03M	1:458596	61	04/12/2019	02/28/2020

Table 11: Largest Scale ENC's

D.1.2 Shoal and Hazardous Features

Charted soundings and contours are in general agreement with measured depths.

D.1.3 Charted Features

A total of 8 features were assigned. One is recommended for removal and six are recommended to be retained as charted. The final Position Approximate wreck was not investigated because it was not assigned. See the Final Feature File for more information.

D.1.4 Uncharted Features

No uncharted features exist for this survey.

D.1.5 Channels

No channels exist for this survey. There are no designated anchorages, precautionary areas, traffic separation schemes, pilot boarding areas, or channel and range lines within the survey limits. The East-West Gulf of Mexico Fairway intersects the center of Elvers and the majority of the northern portion of Antoine. All charted soundings coincide with measured depths in these areas.

D.2 Additional Results

D.2.1 Aids to Navigation

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

D.2.2 Maritime Boundary Points

No Maritime Boundary Points were assigned for this survey.

D.2.3 Bottom Samples

No bottom samples were required for this survey.

D.2.4 Overhead Features

No overhead features exist for this survey.

D.2.5 Submarine Features

Three charted pipelines exist within Antoine and three charted pipelines exist within Elvers. None were detected in complete coverage MBES and are recommended to be retained as charted.

D.2.6 Platforms

No platforms exist for this survey.

D.2.7 Ferry Routes and Terminals

No ferry routes or terminals exist for this survey.

D.2.8 Abnormal Seafloor or Environmental Conditions

No abnormal seafloor or environmental conditions 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 Recommendations

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

D.2.11 ENC Scale Recommendations

No new ENC scales 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, 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.

Approver Name	Approver Title	Approval Date	Signature
Briana Hillstrom	Commanding Officer	10/29/2020	 Digitally signed by HILLSTROM.BRIANA.WELTON.1267667531 Date: 2020.10.28 17:35:54 -04'00'
Airlie Pickett	Field Operations Officer	10/29/2020	 Digitally signed by PICKETT.AIRLIE.GRACE.1539170089 Date: 2020.11.02 11:10:02 -05'00'
Doug Wood	Chief Survey Technician	10/29/2020	WOOD.DOUGLAS.ALAN.1282580698 AS.ALAN.1282580698 580698 Digitally signed by WOOD.DOUGLAS.ALAN.1282580698 Date: 2020.11.03 10:07:08 -05'00'
Julia Waldsmith	Sheet Manager	10/29/2020	WALDSMITH.JULIA.MARIE.1544892416 LIA.MARIE.1544892416 892416 Digitally signed by WALDSMITH.JULIA.MARIE.1544892416 Date: 2020.11.06 16:01:55 Z

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

11 Mar 20

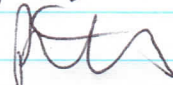
EEBD

/ Marine Mammal Training

Line Throwing Gun / Escape from Quarters / MOB

Name

ROBERT BAYLISS
SUSAN PARKER
JIM BRZOSTEK
Adam Martinez
Sophia Tigges

Rex Castillo
AB OSBORN 
RYAN WARTICK

AIRLIE PICKETT

Chloe Arboleda

Erin Cziraki

Josh Hiteslew

CLARENCE VICK

Joshua Thompson
BASCOM THOMAS

Arcton Burke


BRENT TOWNSEND

Tyler Aldrich

Julia Waldsmith

Kevin Brown

Justin Blancher

S. D. Miller 

Michael Wilson

JUSTIN WITMAN

han let



OPS.Thomas Jefferson - NOAA Service Account <ops.thomas.jefferson@noaa.gov>

Thomas Jefferson Marine Mammal Observers

1 message

OPS.Thomas Jefferson - NOAA Service Account <ops.thomas.jefferson@noaa.gov>

Fri, Oct 30, 2020 at 3:09 PM

To: ocs.ecc@noaa.gov

Cc: Julia Waldsmith - NOAA Federal <julia.m.waldsmith@noaa.gov>

Good afternoon,

Attached is a list of Thomas Jeffesron's trained marine mammal observers. Please let me know if you have any questions or concerns.

Very Respectfully,
LTJG Airlie Pickett


--

Acting Operations Officer, NOAA Ship *Thomas Jefferson*

Ship Land Line: 757-441-6322

Ship Cell: 757-647-0187

Ship Iridium: 808-434-2706

 **MarineMammalTrainees.pdf**
456K



OPS.Thomas Jefferson - NOAA Service Account <ops.thomas.jefferson@noaa.gov>

Coast Pilot Review - OPR-K306-TJ-20

1 message

OPS.Thomas Jefferson - NOAA Service Account <ops.thomas.jefferson@noaa.gov> Wed, Nov 4, 2020 at 11:27 AM
To: OCS NDB - NOAA Service Account <OCS.NDB@noaa.gov>, NSD Coast Pilot <coast.pilot@noaa.gov>
Cc: Alexandra Dawson - NOAA Federal <alexandra.dawson@noaa.gov>

Good morning,

The Coast Pilot Review Report for OPR-K306-TJ-20 is attached. The field unit does not recommend any updates at this time.

Please let me know if you have any questions or concerns.

Very Respectfully,
LTJG Airlie Pickett

--

Acting Operations Officer, NOAA Ship *Thomas Jefferson*
Ship Land Line: 757-441-6322
Ship Cell: 757-647-0187
Ship Iridium: 808-434-2706

 **OPR-K306-TJ-20_Coast Pilot Review Report.pdf**
426K



Erin Cziraki - NOAA Federal <erin.cziraki@noaa.gov>

NOAA Office of Coast Survey Profile Data accession 0221340 published

1 message

NCEI-MD.Ingest@noaa.gov <NCEI-MD.Ingest@noaa.gov>

Sat, Oct 31, 2020 at 3:12 PM

To: NODC.submissions@noaa.gov, erin.cziraki@noaa.gov

Cc: John.Relph@noaa.gov

NCEI has archived and published the following NOAA Office of Coast Survey Profile data set:

Oceanographic profile data collected from CTD casts aboard NOAA LAUNCHES (THOMAS JEFFERSON and NOAA Ship Thomas Jefferson) as part of project OPR-K306-TJ-20 in the Gulf of Mexico from 2020-09-29 to 2020-10-22 (NCEI Accession 0221340)

You can find your new data set and associated metadata at

<https://accession.nodc.noaa.gov/0221340>



Erin Cziraki - NOAA Federal <erin.cziraki@noaa.gov>

OPR-K306-TJ-20 NCEI data submission

3 messages

Erin Cziraki - NOAA Federal <erin.cziraki@noaa.gov>

Wed, Oct 28, 2020 at 11:08 AM

To: NODC.submission@noaa.gov

Cc: Alexandra Dawson - NOAA Federal <alexandra.dawson@noaa.gov>, "OPS.Thomas Jefferson - NOAA Service Account" <ops.thomas.jefferson@noaa.gov>, "ChiefST.Thomas Jefferson - NOAA Service Account" <chiefst.thomas.jefferson@noaa.gov>


Good morning,

Attached are the .nc files for project OPR-K306-TJ-20. Please let me know if there is any additional information that can be sent.

V/r,

--

Erin K. Cziraki
Hydrographic Survey Technician
NOAA ship *Thomas Jefferson*
439 W. York St. Norfolk, VA 23510
Personal Cell: (843) 340-7252
Ship Cell: (757) 647-0187
VIOP: (541) 867-8927
Irridium: (757) 808-434-2706

 **OPR-K306-TJ-20_20201028.zip**
1854K

Mail Delivery Subsystem <mailer-daemon@googlemail.com>

Wed, Oct 28, 2020 at 11:08 AM

To: erin.cziraki@noaa.gov

**Address not found**

Your message wasn't delivered to
NODC.submission@noaa.gov because the address couldn't
be found, or is unable to receive mail.

The response was:

550 5.7.1 unrecognized address - gcdp b3sor3842578ioq.34 - gsmtpt

Final-Recipient: rfc822; NODC.submission@noaa.gov

Action: failed

Status: 5.7.1

Diagnostic-Code: smtp; 550 5.7.1 unrecognized address - gcdp b3sor3842578ioq.34 - gsmt

Last-Attempt-Date: Wed, 28 Oct 2020 08:08:28 -0700 (PDT)

----- Forwarded message -----

From: Erin Cziraki - NOAA Federal <erin.cziraki@noaa.gov>

To: NODC.submission@noaa.gov

Cc: Alexandra Dawson - NOAA Federal <alexandra.dawson@noaa.gov>, "OPS.Thomas Jefferson - NOAA Service Account" <ops.thomas.jefferson@noaa.gov>, "ChiefST.Thomas Jefferson - NOAA Service Account" <chiefst.thomas.jefferson@noaa.gov>

Bcc:

Date: Wed, 28 Oct 2020 11:08:13 -0400

Subject: OPR-K306-TJ-20 NCEI data submission

----- Message truncated -----

Erin Cziraki - NOAA Federal <erin.cziraki@noaa.gov>
To: [_NODC Submissions](mailto:_NODC_Submissions@noaa.gov) <nodc.submissions@noaa.gov>

Wed, Oct 28, 2020 at 11:10 AM

[Quoted text hidden]



OPR-K306-TJ-20_20201028.zip

1854K



OPS.Thomas Jefferson - NOAA Service Account <ops.thomas.jefferson@noaa.gov>

H13231 Survey Outline

1 message

Julia Waldsmith - NOAA Federal <julia.m.waldsmith@noaa.gov>

Fri, Oct 16, 2020 at 6:41 PM

To: _NOS OCS Survey Outlines <survey.outlines@noaa.gov>

Cc: Alexandra Dawson - NOAA Federal <alexandra.dawson@noaa.gov>, "CO.Thomas Jefferson - NOAA Service Account" <co.thomas.jefferson@noaa.gov>, "OPS.Thomas Jefferson - NOAA Service Account" <ops.thomas.jefferson@noaa.gov>, "ChiefST.Thomas Jefferson - NOAA Service Account" <chiefst.thomas.jefferson@noaa.gov>, Julia Waldsmith - NOAA Federal <julia.m.waldsmith@noaa.gov>

Good evening,

Please find attached the survey outline for H13231. Within this project, there were no DTONs to report and no Coast Pilot updates.

V/r,
ENS Waldsmith

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ENS Julia M. Waldsmith NOAA
Junior Officer, NOAA Ship Thomas Jefferson
Ship Land Line: 757-441-6322
Ship Cell: 757-647-0187
Ship Iridium: 808-434-2706

 **H13231_SurveyOutline.000**
5K

APPROVAL PAGE

H13231

The survey data meet or exceed the current requirements of the Office of Coast Survey hydrographic data review process and may be used to update NOAA products. The following survey products will be archived at the National Centers for Environmental Information:

- Descriptive Report
- Collection of Bathymetric Attributed Grids (BAGs)
- Collection of acoustic backscatter mosaics
- Geospatial PDF of survey products

Approved: _____

Commander Meghan McGovern, NOAA
Chief, Atlantic Hydrographic Branch