H13160

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

# DESCRIPTIVE REPORT

| | |
|---|---|
| Type of Survey: | Basic Hydrographic Survey |
| Registry Number: | H13160 |

## LOCALITY

| | |
|---|---|
| State(s): | Florida |
| General Locality: | Florida Keys National Marine Sanctuary and Vicinity |
| Sub-locality: | 3 Nautical Miles East of Dry Tortugas |

**2018**

CHIEF OF PARTY
David Neff, ACSM C.H.

LIBRARY & ARCHIVES

Date:

| U.S. DEPARTMENT OF COMMERCE<br>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION | REGISTRY NUMBER: |
|---|---|
| **HYDROGRAPHIC TITLE SHEET** | **H13160** |

INSTRUCTIONS: The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

| | |
|---|---|
| State(s): | **Florida** |
| General Locality: | **Florida Keys National Marine Sanctuary and Vicinity** |
| Sub-Locality: | **3 Nautical Miles East of Dry Tortugas** |
| Scale: | **40000** |
| Dates of Survey: | **09/19/2018 to 01/12/2018** 9 |
| Instructions Dated: | **07/19/2018** |
| Project Number: | **OPR-H355-KR-18** |
| Field Unit: | **eTrac, Inc** |
| Chief of Party: | **David Neff, ACSM C.H.** |
| 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:

All times are UTC. The purpose of this survey is to update existing NOS nautical charts. H13160 will cover approximately 50 square nautical miles of survey area 3 nautical miles east of Dry Tortugas. SUBCONSULTANT: Geodynamics LLC, 310A Greenfield Dr., Newport, NC 98570

*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 17N, MLLW. All references to other horizontal or vertical datums in this report are applicable to the processed hydrographic data provided by the field unit.*

# Table of Contents

# List of Tables



# List of Figures

# Descriptive Report to Accompany Survey H13160

Project: OPR-H355-KR-18

Locality: Florida Keys National Marine Sanctuary and Vicinity

Sublocality: 3 Nautical Miles East of Dry Tortugas

Scale: 1:40000

September 2018 - January 2018

**eTrac, Inc**

Chief of Party: David Neff, ACSM C.H.

# A. Area Surveyed

eTrac Inc. conducted hydrographic survey operations in the Florida Keys National Marine Sanctuary and surrounding vicinity. H13160 covers approximately 50 square nautical miles of survey area. 1044 linear nautical miles were acquired during the survey. H13160 is located approximately 3 nautical miles east of Dry Tortugas, FL.

Survey was conducted within these limits between September 20, 2018 (DN263) and January 12, 2019 (DN012).

## A.1 Survey Limits

Data were acquired within the following survey limits:

| Northwest Limit | Southeast Limit |
|---|---|
| 24° 37' 16.97" N<br>82° 45' 8.86" W | 24° 30' 59.03" N<br>82° 37' 9.2" W |

*Table 1: Survey Limits*

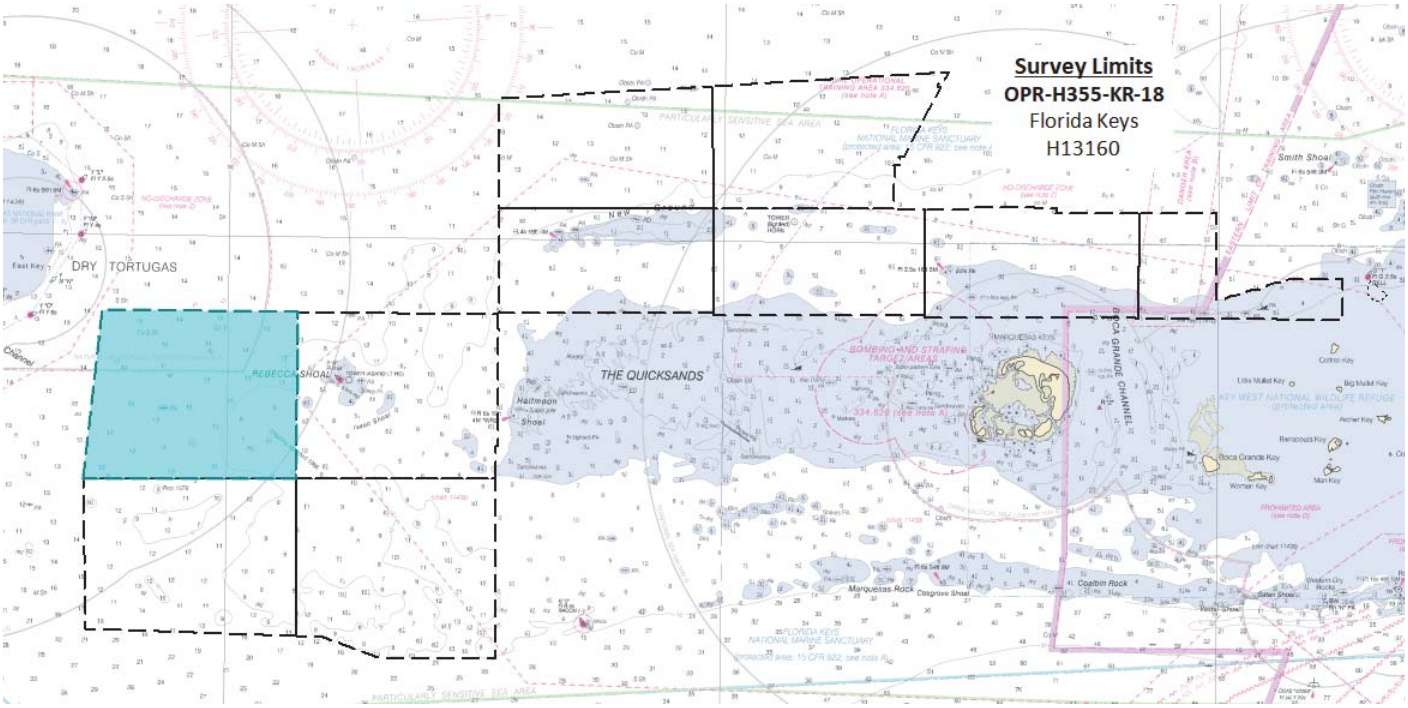



*Figure 1: Survey Limits Overview (light blue area)*

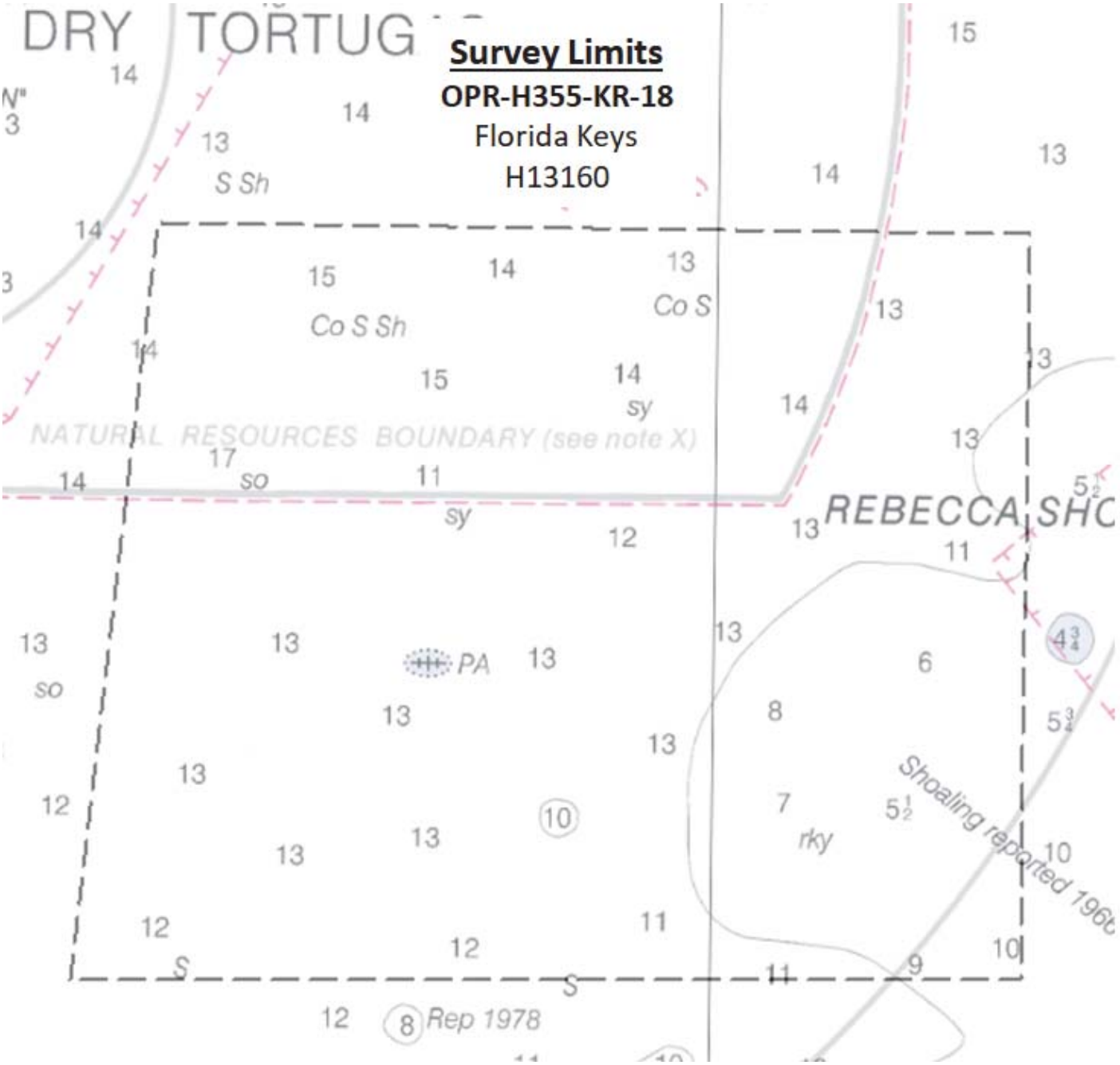



*Figure 2: Survey Limits (black line)*

All data were acquired in accordance with the requirements in the Project Instructions and specifications set forth in the Hydrographic Survey Specifications and Deliverables 2018 Edition (HSSD 2018).

## A.2 Survey Purpose

The purpose of this survey is to update existing National Ocean Service (NOS) nautical charts.

## A.3 Survey Quality

The entire survey is adequate to supersede previous data.

Survey H13160 is accurate to International Hydrographic Organization (IHO) Order 1a as required per the HSSD 2018.

## A.4 Survey Coverage

Survey Coverage was in accordance with the requirements in the Project Instructions and HSSD 2018. H13160 was surveyed to Complete Coverage with backscatter standards set forth in the HSSD 2018.

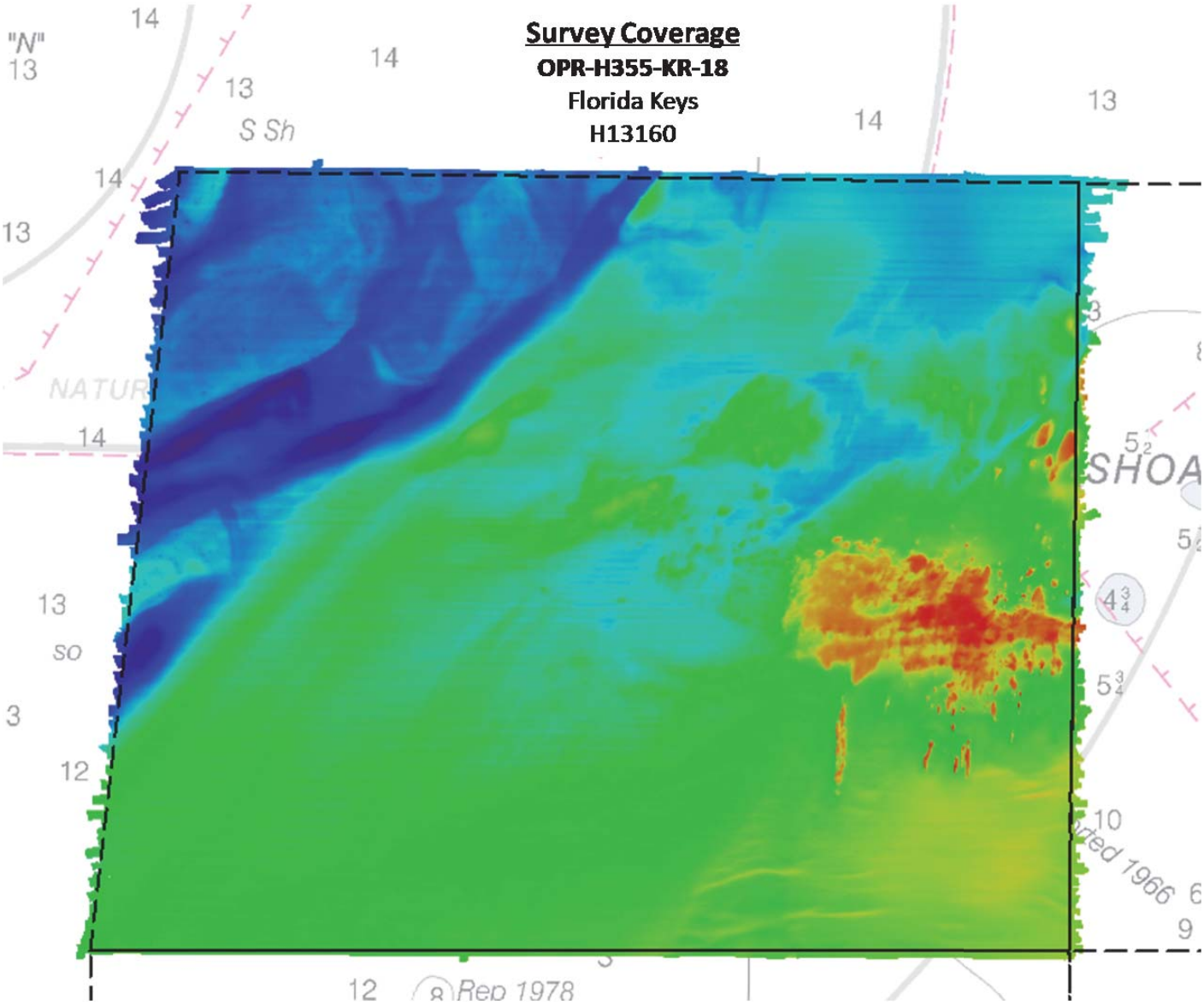



*Figure 3: Survey Coverage*

## A.5 Survey Statistics

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

| | HULL ID | *Taku* | *Marcelle* | *Total* |
|---|---|---|---|---|
| **LNM** | **SBES Mainscheme** | 0 | 0 | 0 |
| | **MBES Mainscheme** | 178 | 824 | 1002 |
| | **Lidar Mainscheme** | 0 | 0 | 0 |
| | **SSS Mainscheme** | 0 | 0 | 0 |
| | **SBES/SSS Mainscheme** | 0 | 0 | 0 |
| | **MBES/SSS Mainscheme** | 0 | 0 | 0 |
| | **SBES/MBES Crosslines** | 2 | 40 | 42 |
| | **Lidar Crosslines** | 0 | 0 | 0 |
| **Number of Bottom Samples** | | | | 5 |
| **Number of AWOIS Items Investigated** | | | | 0 |
| **Number Maritime Boundary Points Investigated** | | | | 0 |
| **Number of DPs** | | | | 0 |
| **Number of Items Investigated by Dive Ops** | | | | 0 |
| **Total SNM** | | | | 50 |

*Table 2: Hydrographic Survey Statistics*

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

| Survey Dates | Day of the Year |
|---|---|
| 09/20/2018 | 263 |
| 09/21/2018 | 264 |
| 09/22/2018 | 265 |
| 09/23/2018 | 266 |
| 09/24/2018 | 267 |
| 09/25/2018 | 268 |
| 09/26/2018 | 269 |
| 09/27/2018 | 270 |
| 09/28/2018 | 271 |
| 09/29/2018 | 272 |
| 11/08/2018 | 312 |
| 11/09/2018 | 313 |
| 11/10/2018 | 314 |
| 12/02/2018 | 336 |
| 12/03/2018 | 337 |
| 12/04/2018 | 338 |
| 12/05/2018 | 339 |
| 12/15/2018 | 349 |
| 12/16/2018 | 350 |
| 01/12/2019 | 12 |

*Table 3: 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 are discussed in the following sections.

### B.1.1 Vessels

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

| Hull ID | *R/V Marcelle* | *R/V Taku* |
|---|---|---|
| **LOA** | 45 meters | 10 meters |
| **Draft** | 2.6 meters | 0.6 meters |

*Table 4: Vessels Used*

The R/V Marcelle is a 45 meter steel-hulled vessel equipped with a custom over-the-side (port) multibeam pole mount.

The R/V Taku is a 10 meter aluminum catamaran equipped with a custom stern multibeam pole mount.

### B.1.2 Equipment

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

| Manufacturer | Model | Type |
|---|---|---|
| Kongsberg | 2040C | MBES |
| R2Sonic | 2024 | MBES |
| Applanix | POSMV 320 V5 | Positioning and Attitude System |
| AML | Base.X | Sound Speed System |
| AML | Smart.X | Sound Speed System |
| eTrac | eTrac MVP | Sound Speed System |

*Table 5: Major Systems Used*

Note: R/V Marcelle utilized a dualhead Kongsberg 2040C multibeam, an eTrac-built MVP and an AML Base.X for sound speed system and a POSMV 320 V5 for the positioning system. R/V Taku utilized a dualhead R2Sonic 2024 multibeam echosounder system, an AML Smart.X for the sound speed system and a POSMV 320 V5 for the positioning system.

## B.2 Quality Control

### B.2.1 Crosslines

Crosslines acquired for this survey totaled 4% of mainscheme acquisition.

A comparison of crossline mileage to mainscheme mileage yields a crossline percentage of 4.23%, and is noted to be above the required 4%.

A beam-to-beam statistical analysis was performed using the Cross Check tool in Qimera. A 2 meter Combined Uncertainty and Bathymetric Estimator (CUBE) weighted dynamic surface was created incorporating only the mainscheme lines and excluded crosslines. The Cross Check tool was used to perform the beam-by-beam comparison of the crossline data to the mainscheme surface. Comparisons showed excellent agreement, well above 95% of the allowable TVU.

Note: This surface was created for QC only and is not submitted as a surface deliverable.

The beam-to-beam crossline comparison report generated through the Qimera Cross Check tool is included in Separates II.

Below is a histogram of the crossline comparison statistics showing IHO Order 1a compliance per beam.

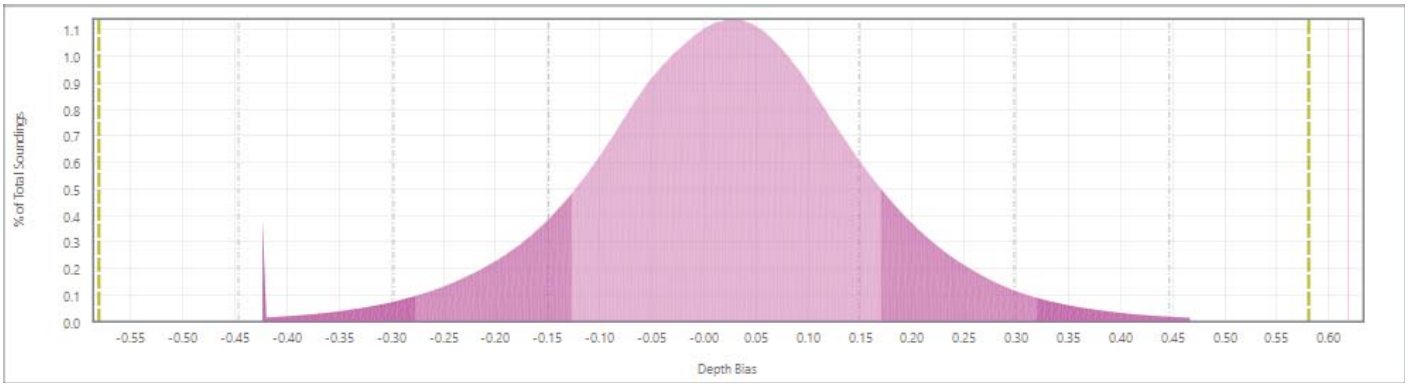



*Figure 4: H13160 Crossline Comparison*

### B.2.2 Uncertainty

| Hull ID | Measured - CTD | Measured - MVP | Surface |
|---|---|---|---|
| R/V Taku | 2 meters/second | 0 meters/second | 2 meters/second |
| R/V Marcelle | 2 meters/second | 0 meters/second | 2 meters/second |

*Table 6: Survey Specific Sound Speed TPU Values*

Standard deviation and uncertainty layers of the Dynamic Surface were utilized during data processing to search for features, water column noise, and systematic errors.

IHO Order 1a uncertainty specification was met by 100% of the nodes.

The final Bathymetric Attributed Grid (BAG) surface's uncertainty was generated through the NOAA QC Tools and an image of the results is located below.

For H13160 the following percentages represent the results of the TPU testing:

Complete Coverage MBES (Finalized 1m CUBE weighted Dynamic Surface in NOAA QC Tools) = 99.5+% of nodes are within the allowable TPU.

Complete Coverage MBES (Finalized 2m CUBE weighted Dynamic Surface in NOAA QC Tools) = 99.5+% of nodes are within the allowable TPU.

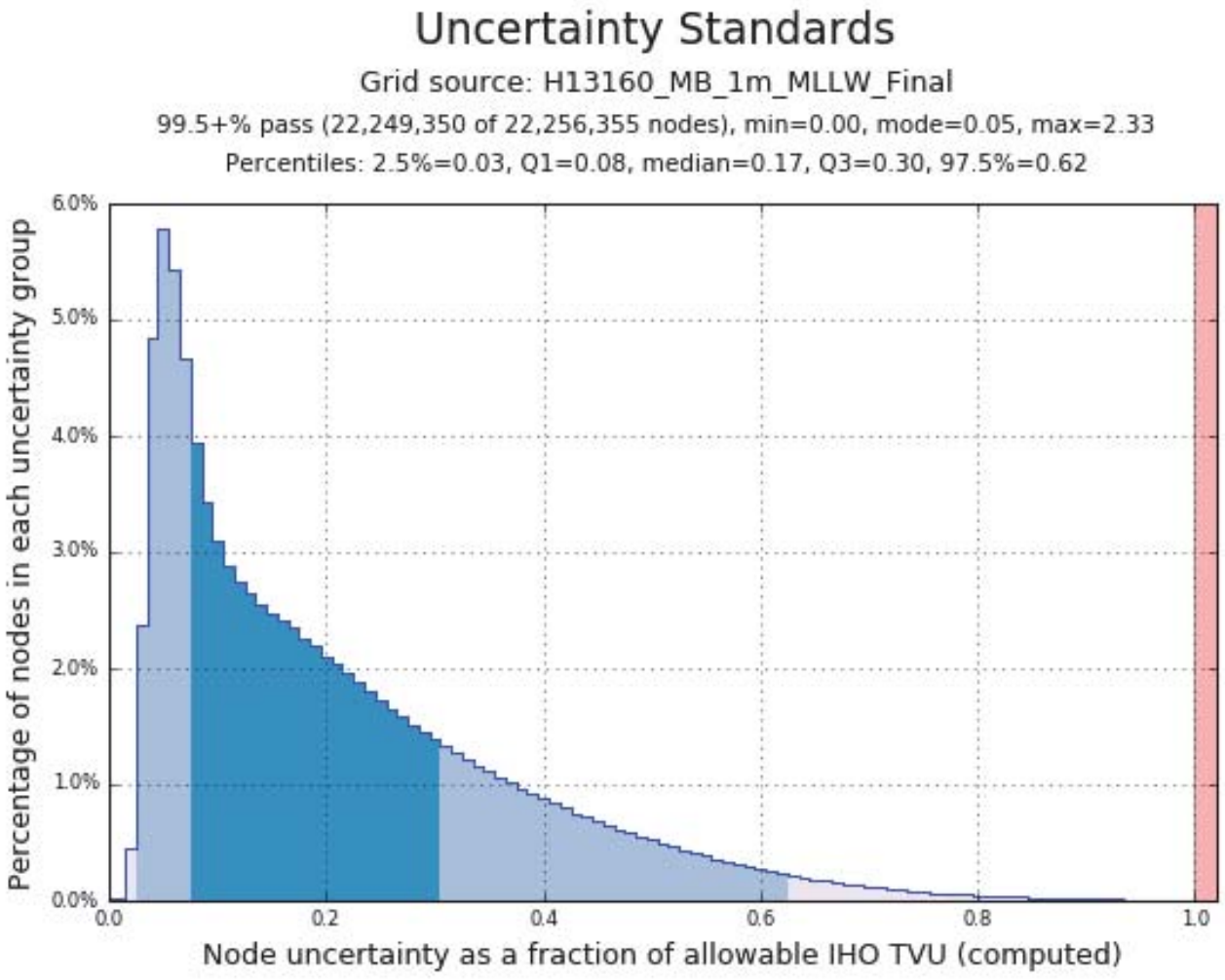



*Figure 5: H13160 Finalized 1m Complete Coverage MBES TPU Statistics*

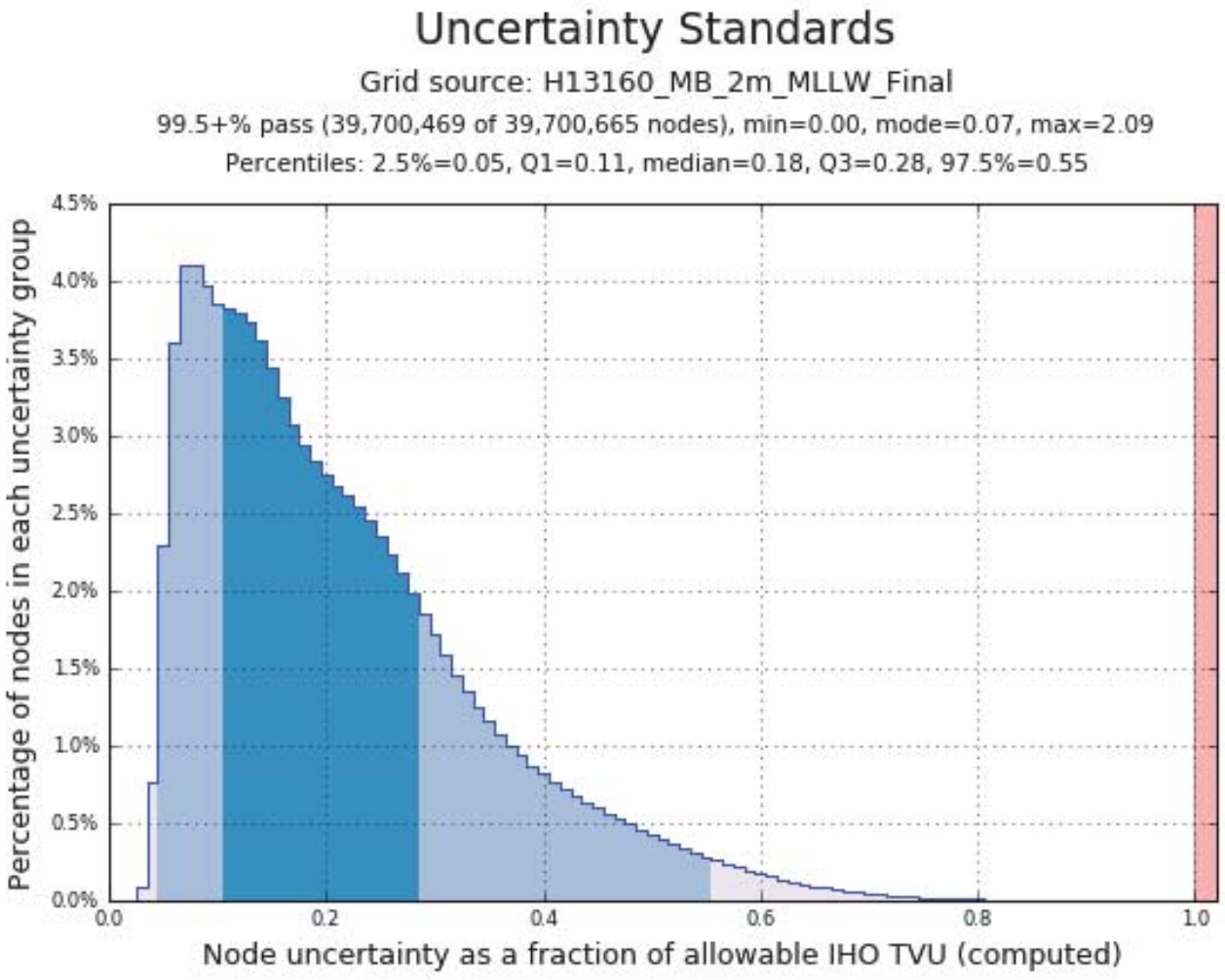



*Figure 6: H13160 Finalized 2m Complete Coverage MBES TPU Statistics*

### B.2.3 Junctions

Depth differences between junctioning surveys were evaluated using the JunctionTrac program, developed in-house by eTrac Inc. For each junction, each CUBE weighted dynamic surface's nodes were exported to an ASCII CSV file where the fields were (Easting, Northing, Depth) for each node. A 1 meter difference surface between the junctioning datasets was also created and exported to an ASCII CSV file where the fields were (Easting, Northing, Diff) for each node. The three ASCII CSV files were then loaded into the JunctionTrac program and junction statistics were computed. A file was also created in this process to locate any nodes from the difference surface that exceed the allowable TVU, which was imported into Qimera and any identified points from JunctionTrac were analyzed. Note: the difference surfaces were created for comparison efforts only and are not submitted as surface deliverables.

The following junctions were made with this survey:

| Registry Number | Scale | Year | Field Unit | Relative Location |
|---|---|---|---|---|
| H13161 | 1:40000 | 2018 | eTrac Inc | S |

*Table 7: Junctioning Surveys*

H13161

The junction comparison between H13160 and H13161 will be submitted with the H13161 DR.

### 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

Sound Speed Refraction

Refraction errors were noted during acquisition and attempts to mitigate the error were made upon discovery (i.e. increase sampling rate). When sound speed errors were not alleviated during acquisition, various methods of sound speed correction were evaluated and applied in post-processing. Where over-lap allowed, beam and angle filters were applied to reduce the extent of the error on the outer beams of the affected lines. Despite best practices, there are individual survey lines that exceed allowable vertical uncertainty for sound speed. However, these offsets do not degrade quality of the CUBE surfaces, as 99.97% of the 1m Final CUBE surface grid nodes and 99.99% of the 2m Final CUBE surface grid nodes meet the maximum allowable TVU defined in the 2018 HHSD.

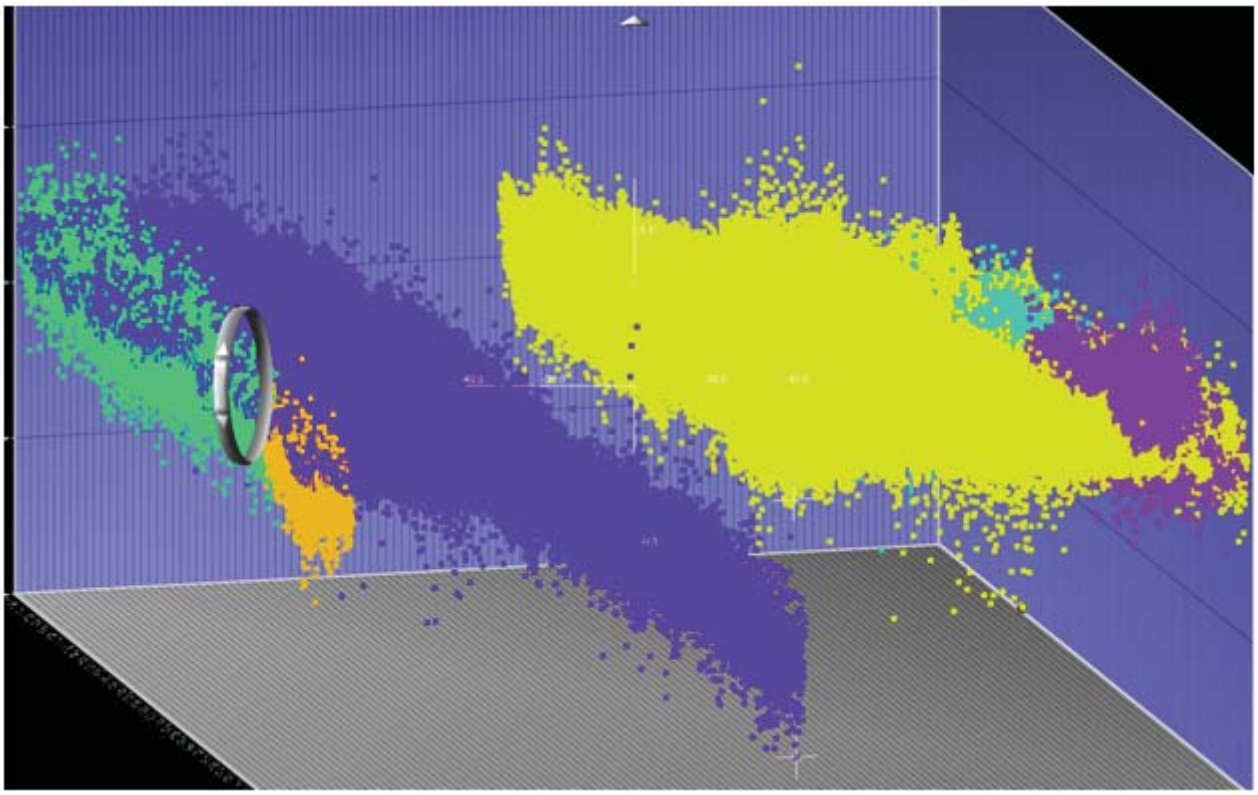


*Figure 7: Example of Vertical Offset*

### B.2.7 Sound Speed Methods

Sound Speed Cast Frequency: SVP casts were generally taken every 2 hours. Ocassionally casts would exceed a 2 hour frequency, however would never exceed a 4 hour frequency. On R/V Marcelle and R/V Benthos casts were applied in both QPS QINSy and Kongsberg SIS acquisition software at the time of the cast. On R/V Taku casts were applied in QPS QINSy acquisition software at the time of the cast. Surface SVP measured at 1Hz was compared to surface speed from the current profile in realtime. If the surface velocity comparison was in excess of 2m/s at any time during survey operations, a new cast was taken.

Surface sound speeds were compared in realtime and profile to profile for each cast on the vessel. Additionally, the processor reviewed profiles in Qimera to remove spurious readings within a cast, compare day-to-day casts, and to check distribution over the surveyed area, in order to better understand trends for efficient acquisition planning.

### B.2.8 Coverage Equipment and Methods

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

### B.2.9 Data Density Evaluation

In order to determine if the density of the data met the specified 5 soundings per node, data density was evaluated using DensityTrac in the AmiTrac program, developed in-house by eTrac Inc. Each finalized CUBE weighted dynamic surface's nodes were exported to a BBH file. The BBH file was then loaded into the DensityTrac program and density statistics were computed.

For H13160 the following percentages represent the results of the density query:

Complete Coverage MBES (Finalized 1m CUBE weighted Dynamic Surface ) = 99.5201% of nodes are composed from at least 5 soundings.

Complete Coverage MBES (Finalized 2m CUBE weighted Dynamic Surface ) = 99.9682% of nodes are composed from at least 5 soundings.

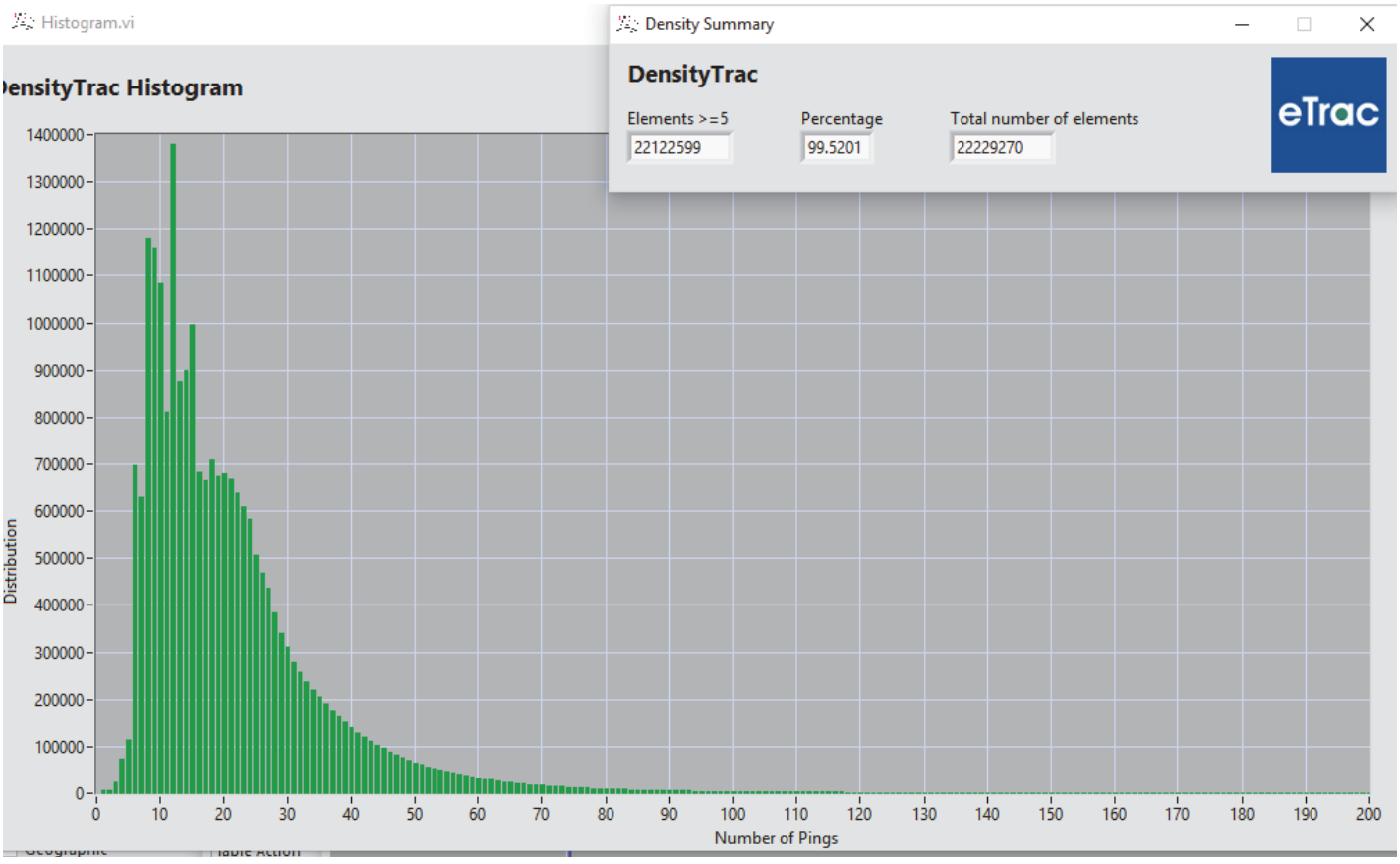



*Figure 8: H13160 Finalized 1m Complete Coverage MBES Density Distribution*

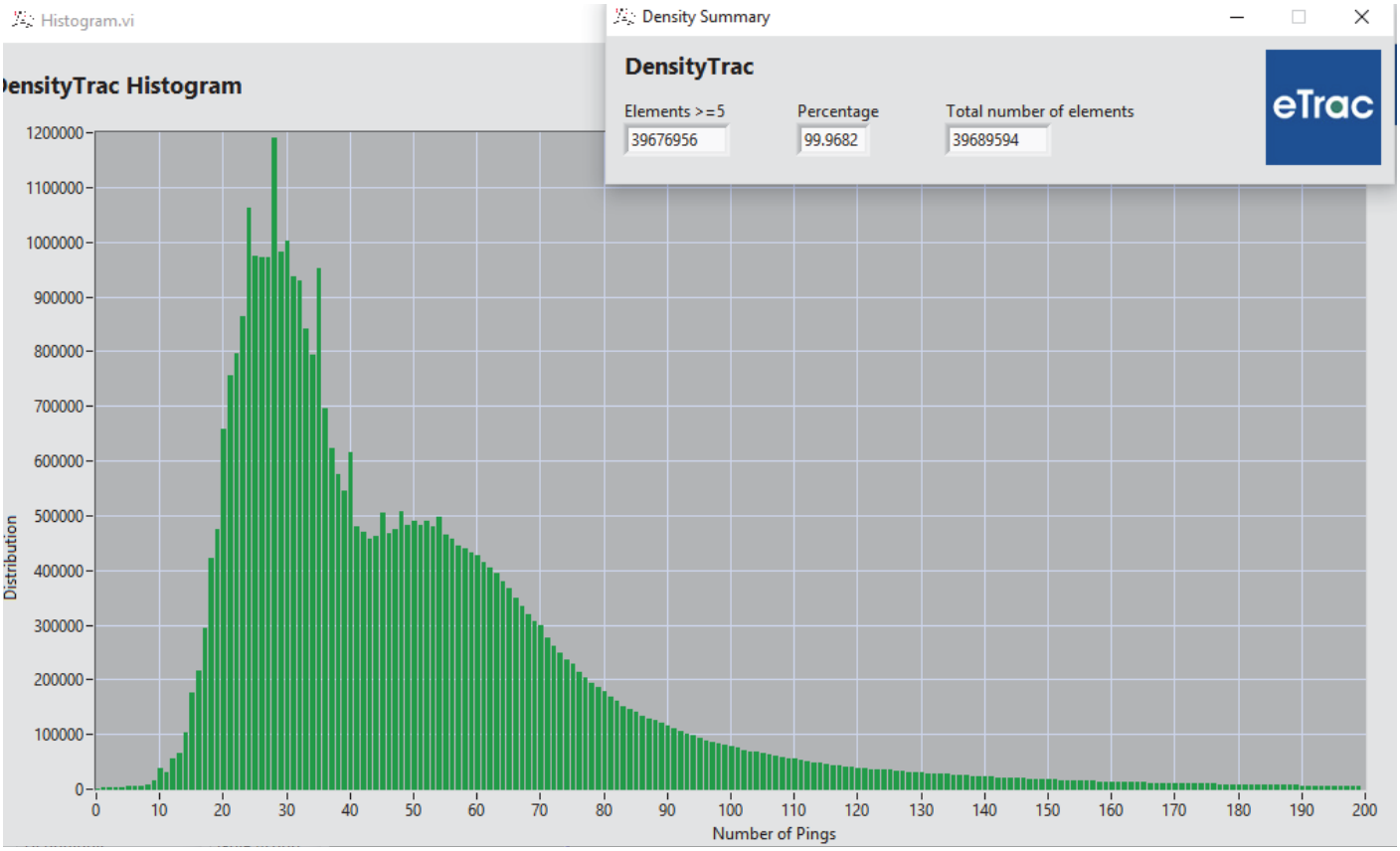



*Figure 9: H13160 Finalized 2m Complete Coverage MBES Density Summary*

## 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 were collected throughout the survey and are retained in the raw ALL and DB files. Every effort was made in the field to collect quality backscatter data while maintaining the primary mandate of high quality bathymetric data. While no processing or analysis of backscatter was required, eTrac Inc. verified coverage and general quality of the backscatter data collected. A beam intensity window was monitored in Qinsy during aquisiton to ensure backscatter data collection. Raw backscatter data were viewed in QPS FMGeocoder to further confirm collection criteria had been met. Shown below is an example of the unprocessed backscatter mosaic from H13160 DN269.

*Figure 10: Raw backscatter from R/V Marcelle (DN269)*

## B.5 Data Processing

### B.5.1 Software Updates

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

The following Feature Object Catalog was used:

No Feature Object Catalog was used. Qimera was used as the primary processing software, which included feature management.

### 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 |
|---|---|---|---|---|---|
| H13160_MB_1m_MLLW | CUBE | 1 meters | 10.64 meters - 20 meters | NOAA_1m | Complete MBES |
| H13160_MB_2m_MLLW | CUBE | 2 meters | 18 meters - 31.47 meters | NOAA_2m | Complete MBES |

*Table 8: Submitted Surfaces*

A 1m and 2m surface are provided meeting complete coverage MBES with backscatter specifications for H13160.

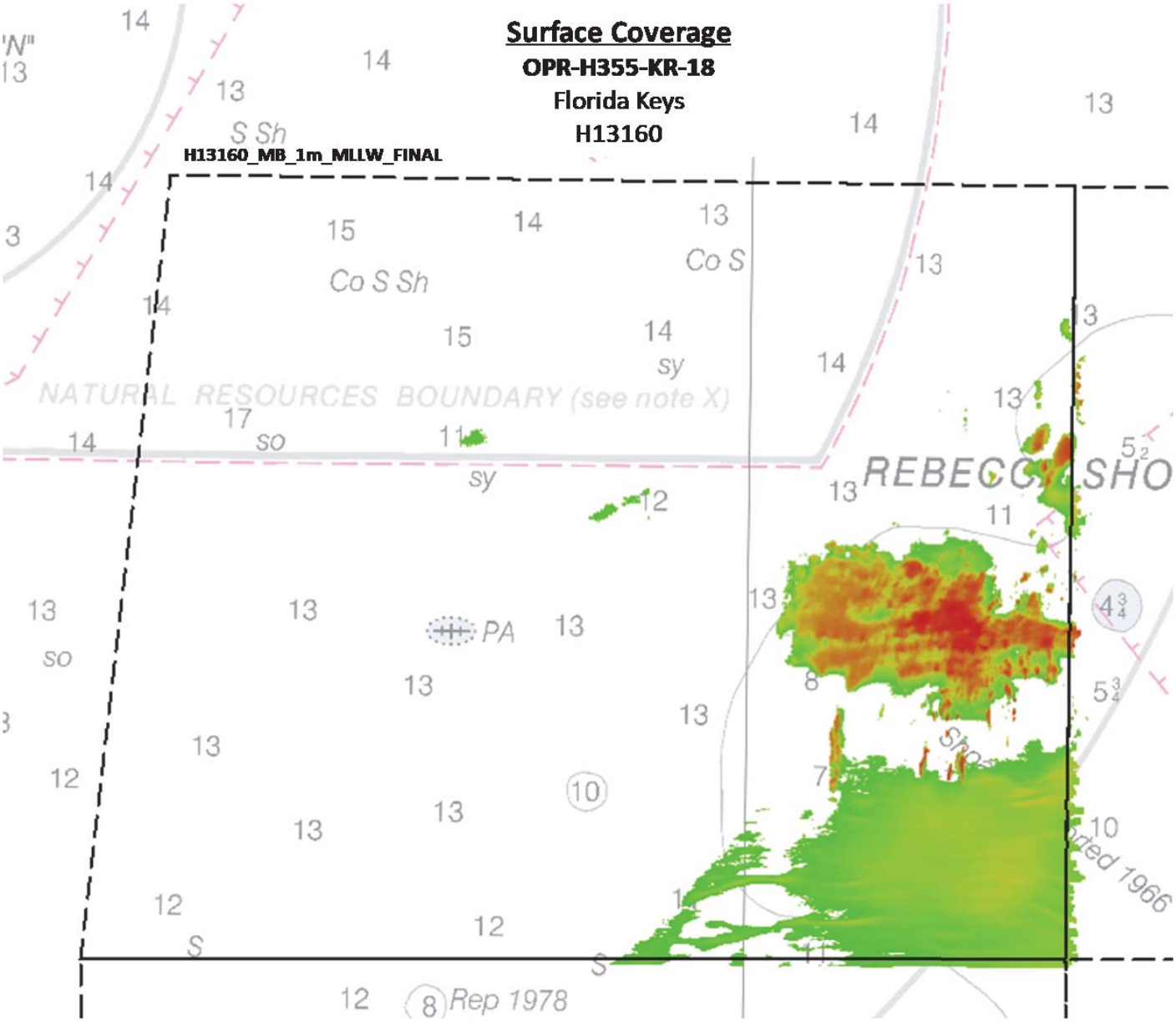



*Figure 11: H13160 Delivered CUBE weighted Dynamic Surface Coverage Graphic (1m)*

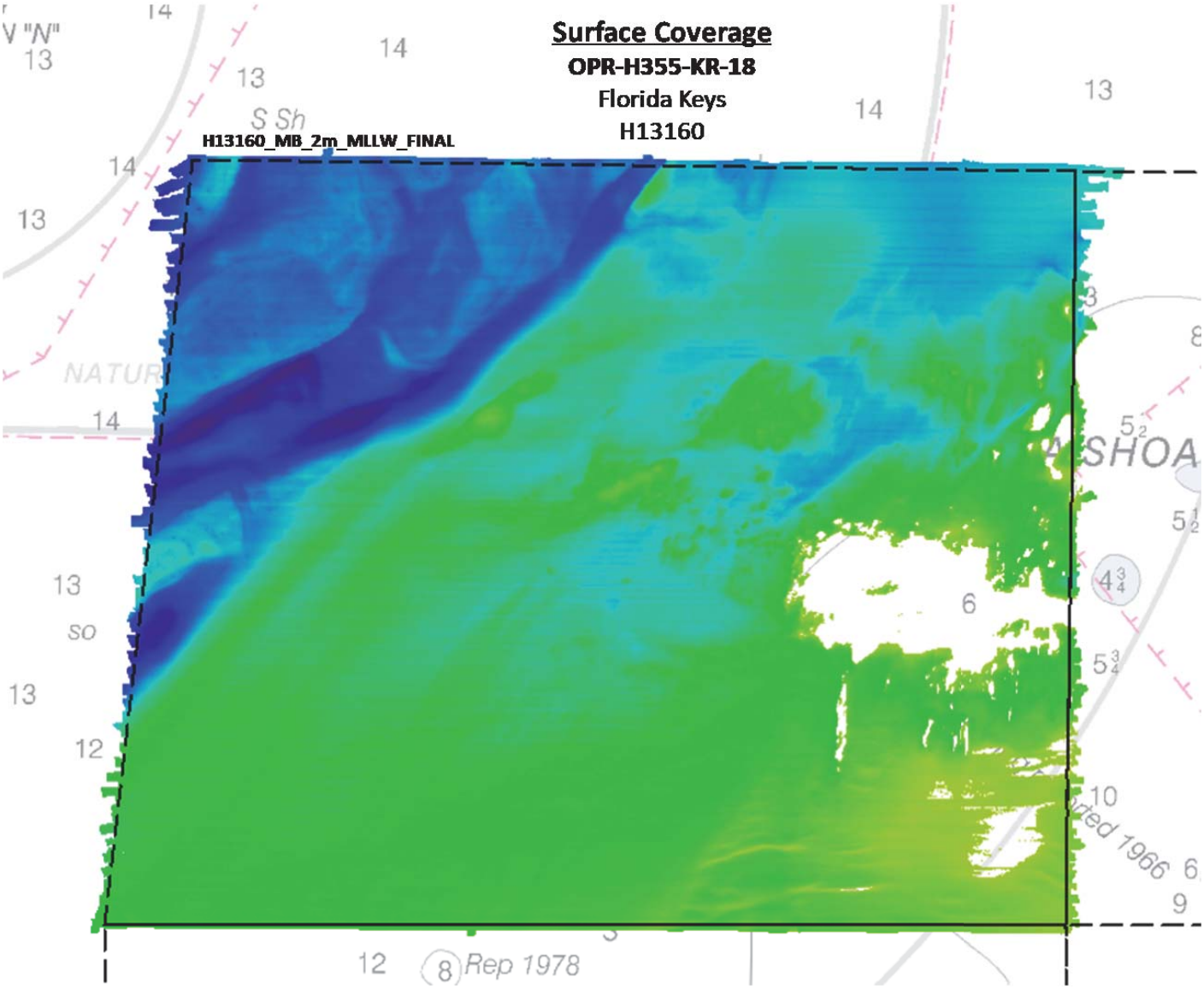



*Figure 12: H13160 Delivered CUBE weighted Dynamic Surface Coverage Graphic (2m)*

# C. Vertical and Horizontal Control

## C.1 Vertical Control

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

Non-Standard Vertical Control Methods Used:

VDatum

Ellipsoid to Chart Datum Separation File:

ITRF_to_MLLW_FL_KEYS.bin

In order to reference soundings to MLLW, a VDatum separation method was applied to the Qinsy DB files via a separation file in the aquisition software.

Note: The vertical control methods are further addressed in the HVCR and DAPR.

### C.2 Horizontal Control

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

The projection used for this project is UTM Zone 17N.

## D. Results and Recommendations

### D.1 Chart Comparison

A chart comparison was conducted for H13160 using Qimera and Caris HIPS and SIPS. Contours and soundings were compared against the largest scale ENC US4FL92M to accomplish the chart comparison. This ENC does not cover the entire survey of H13160 and therefore ENC US3FL90M was included to complete the chart comparison. The methods and results of the comparison are detailed below.

Contour Comparison Method: Using the 2 meter CUBE weighted Dynamic Surface, the 60 foot contour was generated in Qimera and displayed against the charted contour. Additionally, the 2 meter CUBE weighted Dynamic Surface was viewed by a custom color band range based on the contour intervals (6ft, 12ft, 18ft, 30ft, 60ft). The results of the comparison are described below, followed by 1-2 images of example areas.

Sounding Comparison Method: Using the same 2m CUBE weighted Dynamic surface, soundings were generated in Caris HIPS and SIPS. Soundings were displayed against the charted soundings and a visual comparison was made. The results of the comparison are described below, followed by 1-2 images of example areas.

### D.1.1 Electronic Navigational Charts

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

| ENC | Scale | Edition | Update Application Date | Issue Date | Preliminary? |
|---|---|---|---|---|---|
| US4FL92M | 1:80000 | 10 | 05/24/2016 | 05/23/2016 | NO |
| US3FL90M | 1:180000 | 20 | 11/17/2017 | 11/16/2017 | NO |

*Table 9: Largest Scale ENCs*

US4FL92M

Contour Comparison Results:
In general the 60 foot contour has receded inward towards the SE corner of H13160, ranging approximately 0 to 2000 feet from the charted contour. Multiple shoals distinguished by the 60 foot contour have formed in this area, differing from the continuous charted contour.

Sounding Comparison Results:
In areas were the contour had changed, as noted above, and where a feature was detected, soundings differ from the charted depths. In general for H13160, the soundings are in variable agreements with the chart. Soundings are generally within 3 to 5 feet from the chart, although there are soundings that differ 1 to 2 feet from the chart, as well as soundings that differ 6 to 10 feet from the chart. Depth differences are not biased in any particular direction to support a systematic error.

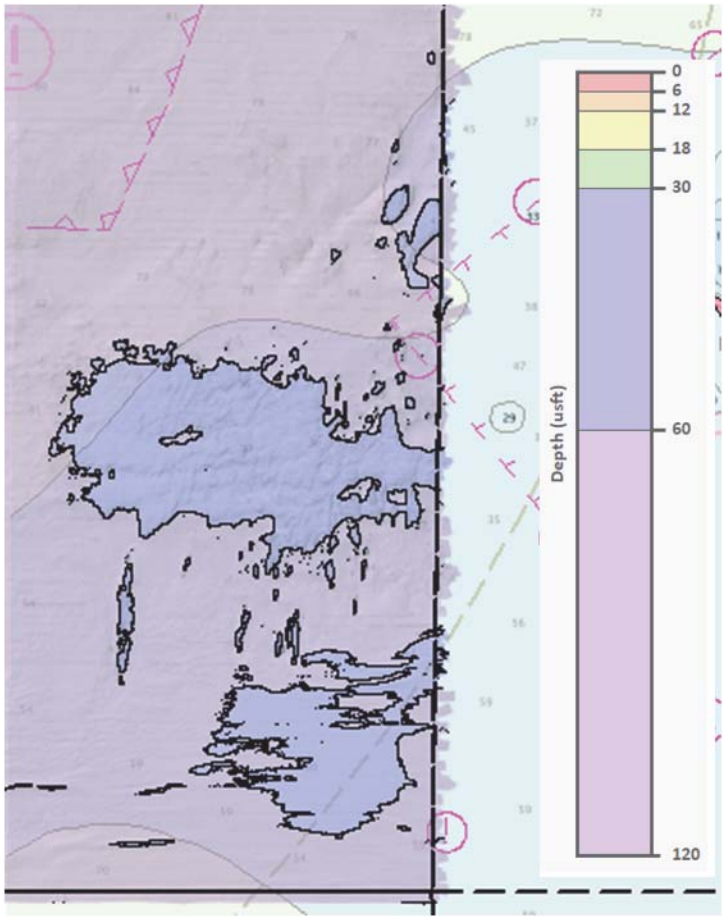



*Figure 13: H13160 60ft Contour Comparison (US4FL92M)*

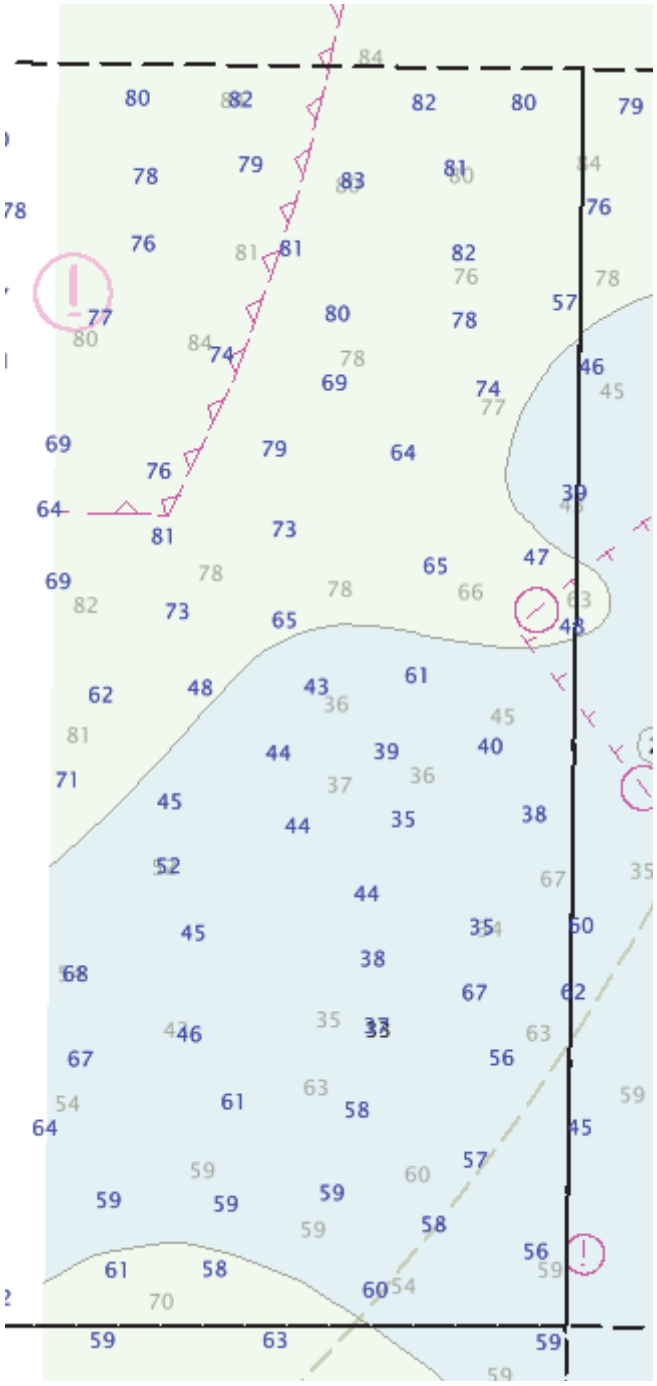


*Figure 14: H13160 Soudning Comparison (US4FL92M)*

US3FL90M

Contour Comparison Results:
In general the 60 foot contour has receded inward towards the SE corner of H13160, ranging approximately 0 to 5000 feet from the charted contour. Multiple shoals distinguished by the 60 foot contour have formed in this area, differing from the continuous charted contour.

Sounding Comparison Results:
In areas were the contour had changed, as noted above, and where a feature was detected, soundings differ from the charted depths. In general for H13160, the soundings are in variable agreements with the chart. Soundings are generally within 3 to 5 feet from the chart, although there are soundings that differ 1 to 2 feet from the chart, as well as soundings that differ 6 to 10 feet from the chart. Depth differences are not biased in any particular direction to support a systematic error.

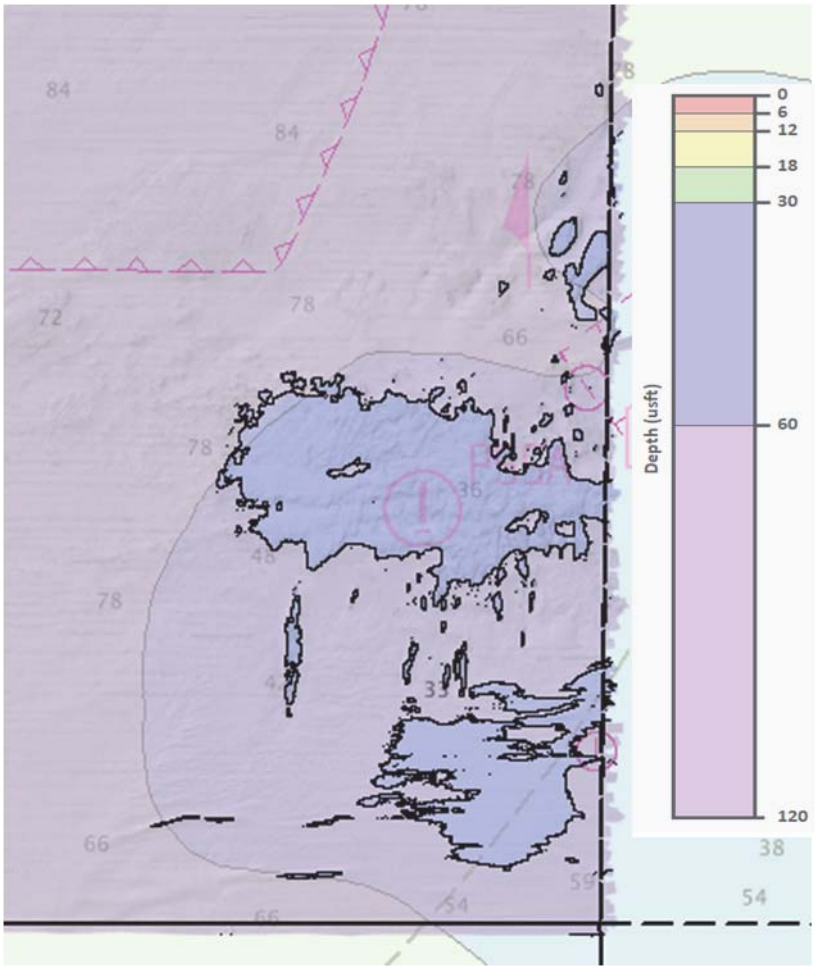



*Figure 15: H13160 30ft and 60ft Contour Comparison (US3FL90M)*

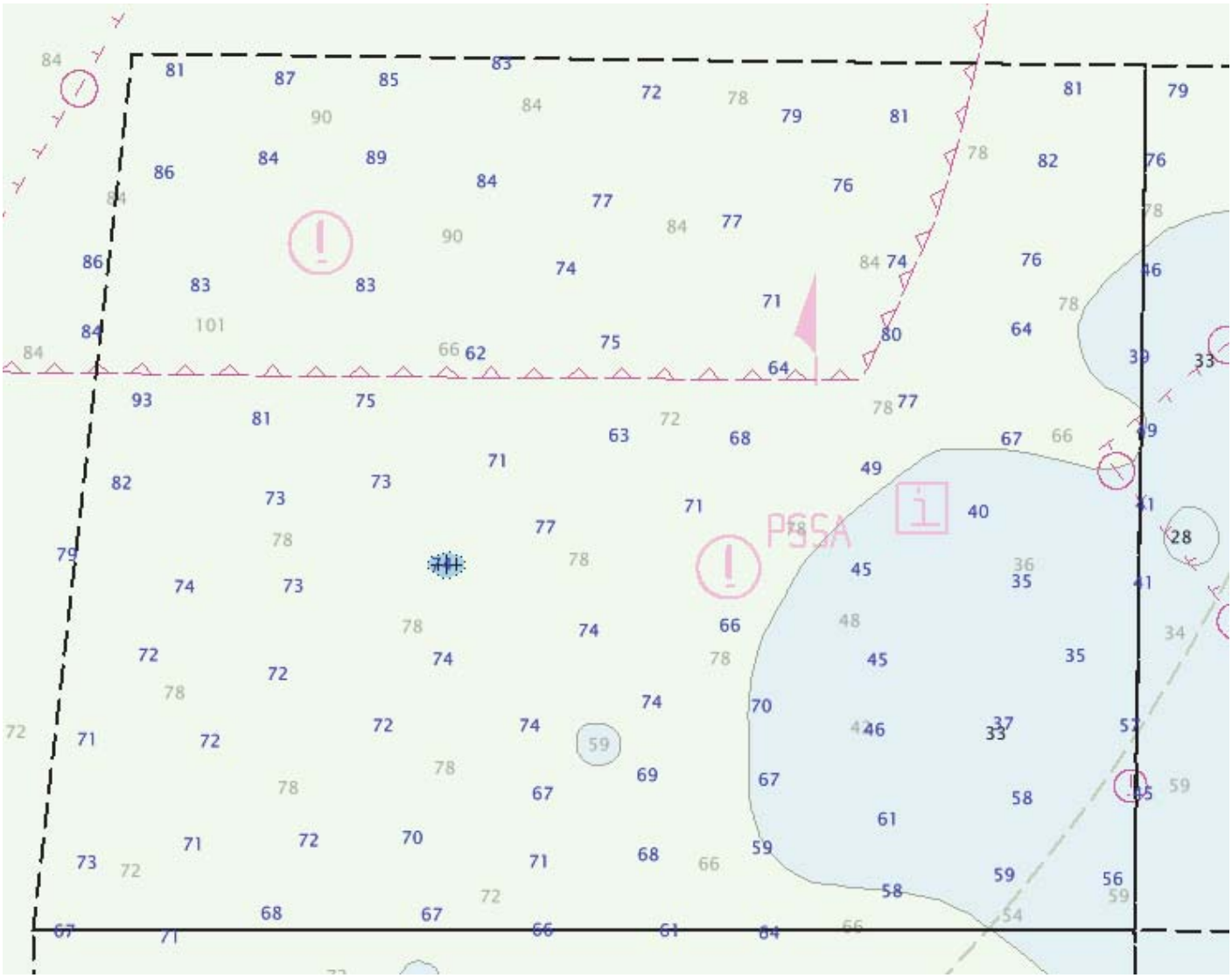



*Figure 16: H13160 Sounding Comparison (US3FL90M)*

### D.1.2 AWOIS Items

No AWOIS Items were assigned for this survey.

### D.1.3 Maritime Boundary Points

No Maritime Boundary Points were assigned for this survey.

### D.1.4 Charted Features

There was 1 charted features assigned to H13160. The assigned feature is retained in the Final Feature File (FFF). Each feature in the FFF has been given a unique identifier in the "userid" field of the .000 S-57 file (format 0XXX). Refer to the FFF for determinations and recommendations of each feature.

### D.1.5 Uncharted Features

There were 5 new features found in H13160 and added to the Final Feature File (FFF). Each feature was given a unique identifier in the "userid" field of the .000 S-57 file (format 0XXX). Refer to the FFF for determinations and recommendations of each feature.

### D.1.6 Dangers to Navigation

The following DTON reports were submitted to the processing branch:

| DTON Report Name | Date Submitted |
|---|---|
| H13160_DtoN_01_1-5-7 | 2019-01-17 |
| H13160_DtoN_3-4 | 2019-01-30 |

*Table 10: DTON Reports*

There were 2 DtoNs reports submitted for this survey which included 5 features in total, found in H13160, and added to the Final Feature File (FFF). Refer to the FFF for determinations and recomendations of each feature. Note: All DtoNs were included in the number of new, uncharted features within section D.1.5.

### D.1.7 Shoal and Hazardous Features

No shoals or hazardous features exist for this survey.

### D.1.8 Channels

No channels exist for this survey.

### D.1.9 Bottom Samples

5 locations of drop camera imagery were obtained in accordance with Appendix I of the Project Instructions in areas designated by the feature object class springs (SPRING) in the Project Reference File (PRF).

A brief description of the results is listed below.

A1: sand
A2: sand
A3: sand
A4: sand, coral
A5: sand

Detailed information and images of the bottom samples listed above are located in the Final Feature File (FFF). Each bottom sample has been given a unique identifier in the "userid" field of the .000 S-57 file (format AX).

## D.2 Additional Results

### D.2.1 Shoreline

No shoreline exists for this survey.

### D.2.2 Prior Surveys

No prior surveys exist for this survey.

### D.2.3 Aids to Navigation

No AtoNs exist for this survey.

### D.2.4 Overhead Features

No overhead features exist for this survey.

### D.2.5 Submarine Features

No submarine features exist for this survey.

### D.2.6 Ferry Routes and Terminals

1 uncharted ferry route is located within the survey limits of H13160. The ferry route is called Key West-Fort Jefferson or Dry Tortugas Ferry. The ferry terminals for this route are located at the Key West Ferry Building in Key West, Florida and the Fort Jefferson Boat Dock in Dry Tortugas, Florida.

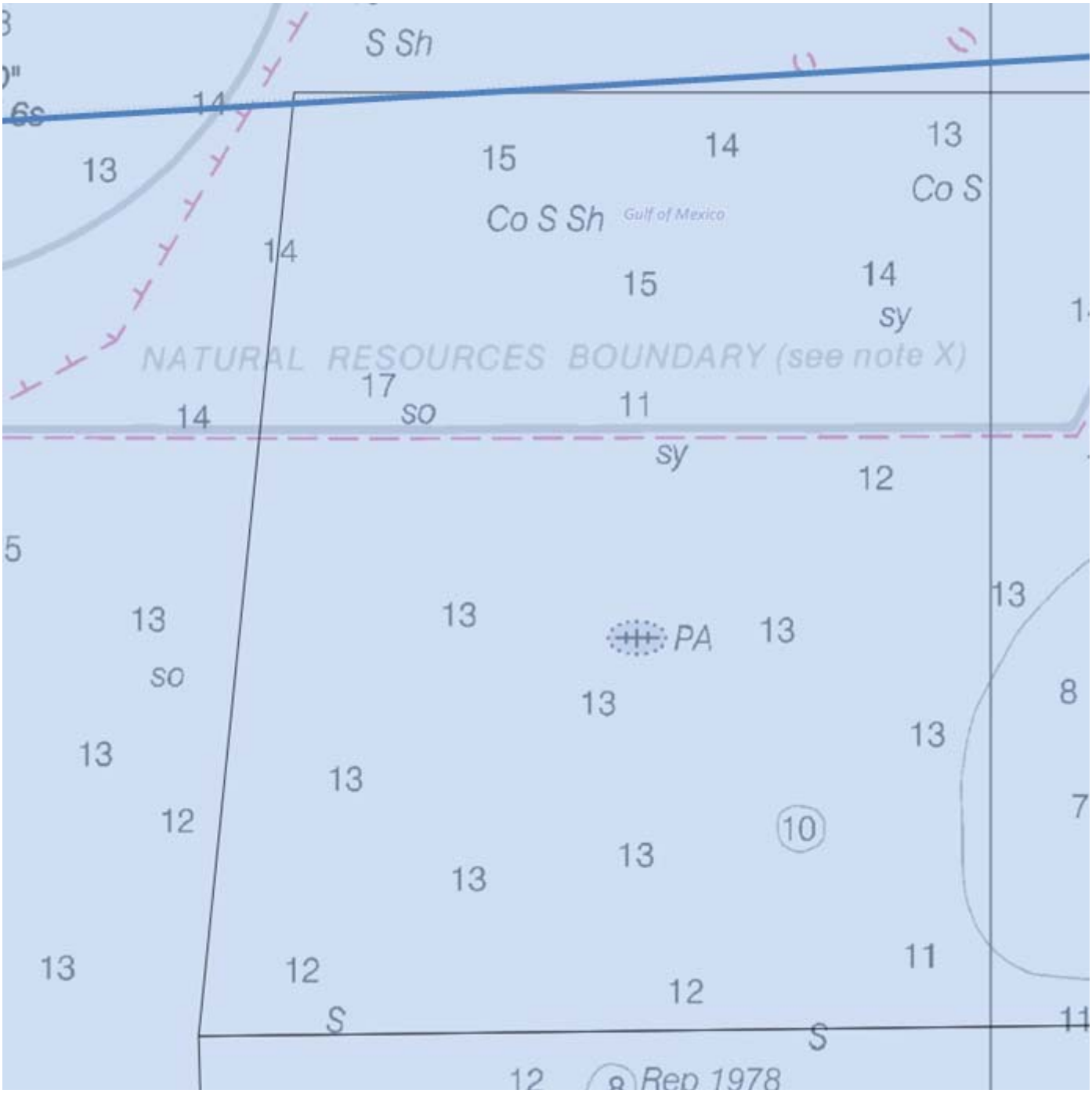



*Figure 17: Ferry Route (blue line)*


*Figure 18: Ferry Terminal - Key West Ferry Building*


*Figure 19: Ferry Terminal - Fort Jefferson Boat Dock*

**D.2.7 Platforms**

No platforms exist for this survey.

**D.2.8 Significant Features**

No significant features exist for this survey.

**D.2.9 Construction and Dredging**

No construction or dredging exist for this survey.

### D.2.10 New Survey Recommendation

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

### D.2.11 Inset Recommendation

No new insets are recommended for this area.

# E. Approval Sheet

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

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

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

| Approver Name | Approver Title | Approval Date | Signature |
|---|---|---|---|
| David R. Neff, C.H. | VP of Survey, eTrac Inc. | 02/22/2019 | Digitally signed by David Neff Date: 2019.02.22 16:33:16-08'00' |

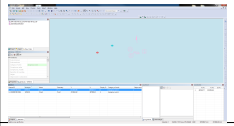
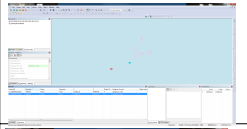
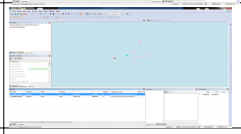
# APPENDIX I

# TIDES AND WATER LEVELS

This page is left intentionally blank. No tide and water level information provided by the field.

# Appendix II – Supplemental Survey Records and Correspondence

- NOAA Correspondence Google Sheet
- Project Wide Email Correspondence
- H13160 Email Correspondence
- DTON PDF Reports
- DTON Verification Emails from NDB

| Issue # | Issue Name | Brief Description of issue | Issue Raised with NOAA | Issue Raised By | Date | Method | Response From NOAA | Date | Method | Status | Brief Description of Resolution | Additional Notes / Guidance |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | assigned ACHARE radius areas in PRF that do not have a charted feature within them | in PRF there are 21 assigned anchorage areas. In investigation requirements in the SF7 it defines a Disapproval Radii and to reference HSSD section 7.3.4 this section is about disproving features. In the project instructions it says the disproval radius for chartered features is denoted with an ACHARE feature in the PRF. However there are many ACHARE features that are not associated with charted features. What do we need to do in the disproval radiuses defined in the ACHARE features that are not associated with charted features? | YES | Izzy | 05/30/18 | Phone | YES | 5/30/2018 | Phone | Closed | Jacklyn James will review the areas and send new version of PRF. |  |
| 2 | doubled wreck feature in CSF | In the CSF 0_152424090735 00143 and 0_1524090728 00184 are the same charted wreck, just pulled for two different enc's. both of these features say they are from raster chart 11441, however this wreck is not actually displayed on this chart but rather Chart 11439. of the 2 listings of this feature 0_1524090735 00143 matches the location in smallest scale ENC US5FL93M and RNC 11439. I proposed to delete 0_1524090728 00184 from the CSF. | YES | Izzy | 05/30/18 | Phone | YES | 05/30/18 | Phone | Closed | Jacklyn James will review and send new version of CSF |  |
| 3 | doubled wreck feature in CSF | In the CSF 0_152424090735 00163 and 0_1524090728 00152 are the same charted wreck, just pulled for two different enc's. both of these features say they are from raster chart 11441, however this wreck is not actually displayed on this chart but rather Chart 11439. of the 2 listings of this feature 0_1524090735 00163 matches the location in smallest scale ENC US5FL93M and RNC 11439. I proposed to delete 0_1524090728 00152 from the CSF. | YES | Izzy | 05/30/18 | Phone | YES | 05/30/18 | Phone | Closed | Jacklyn James will review and send new version of CSF |  |
| 4 | doubled wreck feature in CSF | In the CSF 0_152424090735 00135 and 0_1524090728 00197 are the same charted wreck, just pulled for two different enc's. both of these features say they are from raster chart 11441, however this wreck is not actually displayed on this chart but rather Chart 11439. of the 2 listings of this feature 0_1524090735 00135 matches the location in smallest scale ENC US5FL93M and RNC 11439. I proposed to delete 0_1524090728 00197 from the CSF. | YES | Izzy | 05/30/18 | Phone | YES | 05/30/18 | Phone | Closed | Jacklyn James will review and send new version of CSF |  |
| 5 | Grab Sampler Rate | We have pre negotiated a rate of $30/day for a grab sampler. The inclusion of the dropcam hardware will increase this rate. Should we present the drop cam and sampler in a new increased rate, or add the dropcam hardware as a separate line item? | YES | Dave | 05/29/18 | Phone | YES | 5/29/2018 | Phone | Closed | Etrac will propose the dropcam separately | |
| 6 | Maritime Boundary Points | The PI's state "Investigate Maritime Boundary Points in accordance with Section 7.2.1 of the HSSD". We do not find any assigned MBP's in the PRF. In the past, the statement in the PI's has been "There are no Maritime Boundary Investigation requirements for this project." Please advise | YES | Dave | 05/29/18 | Email | YES | 05/30/18 | Phone | Closed | There are no maratime boundary points | |
| 7 | Permit for Bottom Samples within marine Sanctuary | A permit is necessary to take bottom samples in the Marine Sanctuary. Should we obtain this permit or will NOAA handle this?Should we put the sampler in the proposal for noaa to decide | YES | Dave Neff | 05/29/18 | Phone | YES | 5/30/2018 | Phone | Closed | Jacklyn James directed eTrac to estimate the project with grab samples. Upon review these will likely be taken out so no permit will be needed and we will only be asked to use teh drop camera. | |
| 8 | Class of Vessel Allowed in Marine Sanctuary | One of the vessel leasing companies that have been contacted mentioned only certain class/ length of vessel is allowed to operate within the Marine Sanctuary. Upon further research Joanne Delaney who handles permitting for the MS said the only restriction is that the vessel needs to be less than 50m to operate without a permit. eTrac plans to operate within this restriction. Does OCS know of any restrictions we are not aware of? | YES | Dave Neff | 05/29/18 | Email | YES | 05/30/18 | Phone | Closed | Another restriction is that in the military practice area we will need to get permissions from the coast guard and work out a schedule with them in order to be in the training area. Jacklyn James will send us the form and contact info to obtain these permissions (sent 5/31/2018) | -Information from Joanne Delaney about permiting vessel length was over the phone. Her contact info is Joanne.Delaney@noaa.gov |
| 9 | 2 proposed bottom samples in danger area | in sheet 10 there are 2 proposed bottom samples that are within a charted danger area that states: Danger Area. Area is open to unrestricted surface navigation but all vessels are cautioned neither to anchor, dredge, trawl, lay cables, bottom, nor conduct any other similar type of operation because of residual danger from mines on the bottom. see image | YES | Izzy | | | YES | 6/19/2018 | | Closed | Jacklyn/ COR Spoke to edward.barham@navy.mil, Environmental Specialist and MM2 (SW/AW) Jones, Caylin<br>NAS Key West Port Operations Fire Desk Operator NIPR: Caylin.jones@navy.mil COMM: 305-293-4755 ext. 10 along with the national archives who has assured me there is no hazardous materials in the area where the bottom samples will be collected. |  |
| 10 | LNDARE features investigation requirements | Two Land area features were assigned that are both assosiated with Landmarks (Towers). The investigation requirements for the LNDARE is: Visually confirm feature object existence and capture height to confirm or update LNDELV. Note that an islet may become a UWTROC based on WATLEV; reference Appendix F. The instructions for the Landmarks is: Visually confirm feature object existence. Are we required to capture the height of LNDARE? | YES | Izzy | 08/29/18 | Email | YES | 09/03/18 | Email | Closed | Katy directed eTrac to follow the guidance of the HSSD 2018 | Case is closed based on current data collected to date. Has potential to be reopened if issue is encountered with future data. |
| 12 | Shoal area | Shoal area found at edge of survey area. We collected data to 2.5 meters. Look like it is shoaling more but it is unsafe for us to approach closer. What should we do. Subit as Danger? if so how? | YES | Izzy | | google | YES | | google | Closed | Katy- If the shoal area is a DTON according the the HSSD (i.e. a danger to navigation especically in waters shoaller than 11 fathoms and/or inadquately charted) then submit a DTON report. Do not continue to collect data in waters shoaler than the assigned NALL, due to safety concerns. Include the shoal feature in the final feature file. | |
| 13 | Definition of Navigable Area Survey | If there are areas of our survey that are not contigious with the mainland coastline but are shoaler than 3.5 m are we reqired to collect to complete coverage MBES? | YES | Izzy | 9/11/18 | Email | YES | 9/12/2018 | google | Closed | Katy- You are not required to collect data in waters shoaller than the assigned NALL, even if the areas are assigned as within the sheet limits. Holidays are not considered true holidays when they are in waters shoaller than the assigned NALL. | |
| 14 | Demobilization of Marcelle | The Marcelle was demobilized earlier than planned due to inability to maneuver in its assigned survey area without affecting Lobster fishing gear. | YES | Dave Neff | 10/28/18 | Email | YES | 10/29/2018 | Email | Closed | Kathryn Pridgen agreed that the best use course of action is to demobilize the Marcelle. | |

| Issue # | Issue Name | Brief Description of issue | Issue Raised with NOAA | Issue Raised By | Date | Method | Response From NOAA | Date | Method | Status | Brief Description of Resolution | Additional Notes / Guidance |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | Retasking of LNM's originally scoped to Marcelle | With the Marcelle being demobilized, there are 841 incomplete miles in the western sheets, And 596 incomplete lines in H13164. | YES | Dave Neff | 10/30/18 | Phone | YES | 10/30/2018 | Phone | Closed | Initial response from NOAA was to end mainscheme line miles in in the western sheets and use the small vessels to complete fill. This plan plan was agreed upon, however during a scheduled conference call, it was understood that NOAA is disappointed that H13162 would have incomplete portions. Plan is to schedule another conference call with NOAA when more leadership can be present. | Was determined that NOAA would not be considering any further action on this item and continuing with the plan of calling mainscheme complete and using the small vessels to complete the fill. A waiver explaining the significant absense of mainscheme data in H13162 is forthcoming from COR Katy Pridgen. |
| 16 | Soundings on the Jetty in F00757 | For F00757 we have soundings on the physical jetty. Typically we would remove soundings on pilings, offshore rigs, ATONS, etc so as not to obstruct the surface deliverable. Please advise | YES | Dave Neff | 11/2/18 | Email | YES | 11/4/2018 | Phone | Closed | After consulting with Gene Parker at AHB, it was decided to leave the jetty soundings in the data. AHB will determine the fate of these soundings before compilation. | |
| 17 | NATQUA Attribute in bottom samples | eTrac believes it would be over reaching to estimate a NATQUA attribute of seafloor material from dropcam imagery alone. Please advise | YES | Dave Neff | 11/8/18 | Email | YES | 11/8/2018 | Email | Closed | eTrac feels comfortable determining the NATSUR for each bottom sample from the existing imagery. As NATQUA is not a requirement, we will not be attributing it based on insufficient field sample data. We will document this decision making process in our DR and provide feedback on the advantages and disadvantages of each sampling technique (dropcam and physical grabs). | |
| 18 | | | | | | | | | | | | |

Isadora Kratchman <izzy@etracinc.com>

# Military Practice Area/ Vicinity of Key West and The Dry Tortugas

2 messages

**Jacklyn** <jacklyn.c.james@noaa.gov> Thu, May 31, 2018 at 12:28 PM
To: Isadora Kratchman <izzy@etracinc.com>
Cc: David Neff <david@etracinc.com>

All,

If you conduct hydrographic survey operations within OPAREA's, you will have to submit a Rfmss request. The file attached includes details on how to set up an account if you do not already have one.

If you have any additional concerns feel free to contact the scheduling office.

Thank you,
--
Jacklyn James
Physical Scientist/ COR II
Hydrographic Surveys Division
1315 East-West Highway
SSMC3 Room 6114
Silver Spring, MD 20910
*(o) 240-533-0036 NEW NUMBER*
jacklyn.c.james@noaa.gov

To see live feeds from the NOAA Ship Okeanos Explorer go to the web site below.
http://oceanexplorer.noaa.gov/okeanos/welcome.html#

**RFMSS Access Cheat Sheet.pdf**
69K

**David Neff** <david@etracinc.com> Thu, May 31, 2018 at 10:18 PM
To: Jacklyn <jacklyn.c.james@noaa.gov>
Cc: Isadora Kratchman <izzy@etracinc.com>

Thanks Jacklyn, received.

Izzy, can you start pulling together a template google docs folder and put this in the info folder?
[Quoted text hidden]
--
Dave Neff, C.H.
Mobile: (415)-517-0020
www.etracinc.com

**Isadora Kratchman <izzy@etracinc.com>**

# ACHARE radius areas in PRF

3 messages

**Isadora Kratchman** <izzy@etracinc.com> Tue, Jun 19, 2018 at 9:18 AM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>
Cc: David Neff <dave@etracinc.com>

Good morning Jacklyn,

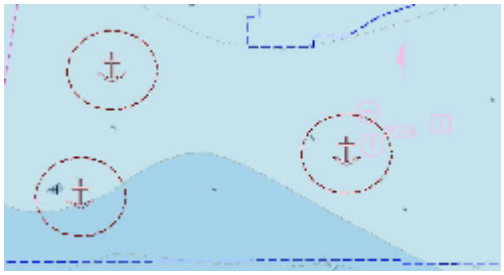
Have you been able to review the ACHARE areas that were assigned in the PRF?There are many that do not have features in them.
Our project instructions denote the ACHARE as disapproval radius for charted features. Are the ACHARE radi also investigation circles, like the ones assigned in our last project OPR-H358-KR-17?

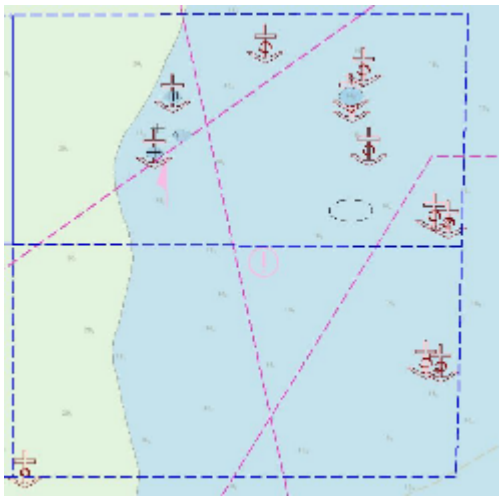
We would like to have a better understanding of these areas for planning purposes.

This is question 1 in our project correspondence sheet.

https://docs.google.com/spreadsheets/d/1hhMAEg-l9vmYuZNNAmJAIhAH8wg0Ypx2M_LGDsUL-hs/edit#gid=0

Below are the images that are in the correspondence sheet as well.





Best,
Izzy

--
Isadora Kratchman
eTrac Inc.
izzy@etracinc.com
Mobile: (301)-706-9246
www.etracinc.com

---

**Jacklyn** <jacklyn.c.james@noaa.gov> Wed, Jun 20, 2018 at 2:19 PM
To: Isadora Kratchman <izzy@etracinc.com>
Cc: David Neff <dave@etracinc.com>

Please find attached the updated csf. The ACHARE in the csf were associated with seabed type or lights but I have modified some of the radii.Please let me know if you have additional questions.
[Quoted text hidden]

--
Jacklyn James
Physical Scientist/ COR II
Hydrographic Surveys Division
1315 East-West Highway
SSMC3 Room 6114
Silver Spring, MD 20910
*(o) 240-533-0036 NEW NUMBER*
jacklyn.c.james@noaa.gov

To see live feeds from the NOAA Ship Okeanos Explorer go to the web site below.
http://oceanexplorer.noaa.gov/okeanos/welcome.html#

---

**OPR-H355-KR18_CSF#2.000**
395K

---

**Isadora Kratchman** <izzy@etracinc.com> Wed, Jun 20, 2018 at 2:56 PM
To: Jacklyn <jacklyn.c.james@noaa.gov>
Cc: David Neff <dave@etracinc.com>

Jacklyn,

I am unable to open the new CSF S57 file. CARIS and our other software say that there is a formatting error within the file. Can you try to re-export the .000? Maybe zip the file in case it is getting corrupted over email?

Are there still ACHARE circles assigned over seabed areas and lights in this new version? Our project instructions say that these ACHARE are the disproval radius for charted features. Do we need to disprove sea bed areas?
We have 3 assigned lights in our CSF however none of the lights have ACHARE around them. Are there more lights that are assigned than what are in our CSF?

Thanks,
Izzy
[Quoted text hidden]

David Neff <david@etracinc.com>

# Permit

12 messages

**Fleming, Tenia** <tenia_fleming@nps.gov> Wed, Aug 8, 2018 at 10:03 AM
To: David@etracinc.com

Please sign and initial and return to me for signature.
--

**********
Tenia Fleming
305-242-7734
Fee Admin Assistant
Film and Special Use Park Coordinator
Everglades National Park
40001 State Road 9336
Homestead FL 33034

**10-930-Application-for-SUP-Long-Form-2017-2-3 (4).pdf**
160K

**David Neff** <david@etracinc.com> Wed, Aug 8, 2018 at 10:32 AM
To: "Fleming, Tenia" <tenia_fleming@nps.gov>

Thank you Tenia,

Attached is the signed form.

Dave
[Quoted text hidden]
--
**David Neff, C.H.**
Lead Hydrographer
Mobile: (415) 517-0020
www.etracinc.com

**10-930-Application-for-SUP-Long-Form-2017-2-3.pdf**
686K

**Fleming, Tenia** <tenia_fleming@nps.gov> Wed, Aug 8, 2018 at 10:46 AM
To: David Neff <david@etracinc.com>

David,

Please initial each condition.

Thank you
[Quoted text hidden]

**David Neff** <david@etracinc.com> Wed, Aug 8, 2018 at 10:58 AM
To: "Fleming, Tenia" <tenia_fleming@nps.gov>

Sorry about that. Here you go.
[Quoted text hidden]

**10-930-Application-for-SUP-Long-Form-2017-2-3 (1).pdf**
681K

---

**David Neff** <david@etracinc.com> Fri, Aug 17, 2018 at 10:27 AM
To: "Fleming, Tenia" <tenia_fleming@nps.gov>, Jacob Ruiz <jake@etracinc.com>

Tenia,

Can you sing and return this please? We are heading to the island soon.
[Quoted text hidden]
--
**David Neff, C.H.**
Mobile: (415) 517-0020
www.etracinc.com

---

**David Neff** <david@etracinc.com> Sat, Aug 18, 2018 at 12:17 PM
To: Jacob Ruiz <jake@etracinc.com>

Permit
[Quoted text hidden]
[Quoted text hidden]

**10-930-Application-for-SUP-Long-Form-2017-2-3 (1).pdf**
681K

---

**Fleming, Tenia** <tenia_fleming@nps.gov> Mon, Aug 20, 2018 at 4:13 AM
To: David Neff <david@etracinc.com>
Cc: Jacob Ruiz <jake@etracinc.com>

Sorry, I was out sick last week. Signing and putting it in bosses box
[Quoted text hidden]

---

**Fleming, Tenia** <tenia_fleming@nps.gov> Mon, Aug 20, 2018 at 4:29 AM
To: David Neff <David@etracinc.com>

Please keep permit with you and give to anyone that may need it.

Thank you

--

**********
Tenia Fleming
305-242-7734
Fee Admin Assistant
Film and Special Use Park Coordinator
Everglades National Park

40001 State Road 9336
Homestead FL 33034

**signed.pdf**
429K

---

**David Neff** <david@etracinc.com> Mon, Aug 20, 2018 at 6:57 AM
To: "Fleming, Tenia" <tenia_fleming@nps.gov>

Thanks Tenia!
[Quoted text hidden]
--
**David Neff, C.H.**
Mobile: (415) 517-0020
www.etracinc.com

---

**David Neff** <david@etracinc.com> Mon, Aug 20, 2018 at 3:08 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>

Jacklyn,

I am forwarding the Special Use Permit from NPS for the Dry Tortuga Base station as requested.

Dave

[Quoted text hidden]
--
**David Neff, C.H.**
Lead Hydrographer
Mobile: (415) 517-0020
www.etracinc.com

---

**signed.pdf**
429K

---

**Jacklyn** <jacklyn.c.james@noaa.gov> Tue, Aug 21, 2018 at 6:23 AM
To: David Neff <david@etracinc.com>
Cc: Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>

Thanks Dave. Will you also share the powerpoint?
[Quoted text hidden]
--
Jacklyn James
Physical Scientist/ COR III
Hydrographic Surveys Division
1315 East-West Highway
SSMC3 Room 6114
Silver Spring, MD 20910
***(o)** 240-847-8173 **NEW NUMBER***

jacklyn.c.james@noaa.gov

To see live feeds from the NOAA Ship Okeanos Explorer go to the web site
below.

http://oceanexplorer.noaa.gov/okeanos/welcome.html#

---

**David Neff** <david@etracinc.com> Tue, Aug 21, 2018 at 8:40 AM
To: Jacklyn <jacklyn.c.james@noaa.gov>

Sure thing, attached.
[Quoted text hidden]

--
**David Neff, C.H.**
Mobile: (415) 517-0020
www.etracinc.com

---

**OPR-H355-KR-18.pdf**
4952K

**David Neff <david@etracinc.com>**

# eTrac Inc. - OPR-H355-KR-18 - Floriday Keys - Kickoff Meeting - 4pm EST

8 messages

**David Neff** <david@etracinc.com> Mon, Aug 20, 2018 at 6:54 AM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, Stacy Fullerton - NOAA Federal <stacy.fullerton@noaa.gov>

Good morning,

I will be hosting a kick off meeting to layout the mobilization schedule and general details of the upcoming project in the Florida Keys. If you cannot make the meeting and would like a copy of the presentation, let me know and I will email it over along with any notes from the meeting. Meeting details below.

## New Meeting

Mon, Aug 20, 2018 1:00 PM - 2:00 PM PDT

**Please join my meeting from your computer, tablet or smartphone.**
https://global.gotomeeting.com/join/214941605

**Join the conference call:**
Dial In Number : 415-655-0381
Conference ID: 690-849-329

First GoToMeeting? Let's do a quick system check:
https://link.gotomeeting.com/system-check

--
**David Neff, C.H.**
Mobile: (415) 517-0020
www.etracinc.com

**David Neff** <david@etracinc.com> Mon, Aug 20, 2018 at 6:56 AM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Tim Osborn <tim.osborn@noaa.gov>, "J. Christopher Taylor" <chris.taylor@noaa.gov>

Tim and Chris,

I will be hosting a kick off meeting to layout the mobilization schedule and general details of the upcoming project in the Florida Keys. If you cannot make the meeting and would like a copy of the presentation, let me know and I will email it over along with any notes from the meeting. Meeting details below.

## New Meeting

Mon, Aug 20, 2018 1:00 PM - 2:00 PM PDT

**Please join my meeting from your computer, tablet or smartphone.**
https://global.gotomeeting.com/join/214941605

**Join the conference call:**
Dial In Number : 415-655-0381
Conference ID: 690-849-329

First GoToMeeting? Let's do a quick system check:
https://link.gotomeeting.com/system-check

[Quoted text hidden]

---

**Jacklyn** <jacklyn.c.james@noaa.gov> Mon, Aug 20, 2018 at 7:01 AM
To: David Neff <david@etracinc.com>

Thank you.
[Quoted text hidden]
--
Jacklyn James
Physical Scientist/ COR III
Hydrographic Surveys Division
1315 East-West Highway
SSMC3 Room 6114
Silver Spring, MD 20910
***(o)** 240-847-8173 **NEW NUMBER***

jacklyn.c.james@noaa.gov

To see live feeds from the NOAA Ship Okeanos Explorer go to the web site
below.
http://oceanexplorer.noaa.gov/okeanos/welcome.html#

---

**David Neff** <david@etracinc.com> Mon, Aug 20, 2018 at 7:02 AM
To: Jacklyn <jacklyn.c.james@noaa.gov>

Seems like Chris is out of the office till August 28th, but Tim should be good to go.
[Quoted text hidden]

---

**Jacklyn** <jacklyn.c.james@noaa.gov> Mon, Aug 20, 2018 at 7:06 AM
To: David Neff <david@etracinc.com>

Okay. I just forwarded to Don Field.
[Quoted text hidden]

---

**Tim Osborn - NOAA Federal** <tim.osborn@noaa.gov> Mon, Aug 20, 2018 at 7:19 AM
To: David Neff <david@etracinc.com>
Cc: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, "J. Christopher Taylor" <chris.taylor@noaa.gov>

Will join

Thank you.
[Quoted text hidden]

---

**Tim Osborn - NOAA Federal** <tim.osborn@noaa.gov> Mon, Aug 20, 2018 at 7:21 AM
To: David Neff <david@etracinc.com>
Cc: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, "J. Christopher Taylor" <chris.taylor@noaa.gov>

To clarify, 1:00 eastern?

On Aug 20, 2018, at 8:56 AM, David Neff <david@etracinc.com> wrote:

[Quoted text hidden]

---

**Jacklyn** <jacklyn.c.james@noaa.gov> Mon, Aug 20, 2018 at 7:32 AM
To: Tim Osborn - NOAA Federal <tim.osborn@noaa.gov>
Cc: David Neff <david@etracinc.com>, "J. Christopher Taylor" <chris.taylor@noaa.gov>

Its 4pm EST.

[Quoted text hidden]
[Quoted text hidden]

**Isadora Kratchman <izzy@etracinc.com>**

# Fwd: NOAA SURVEY IN FL KEYS

1 message

**David Neff** <david@etracinc.com> Mon, Aug 13, 2018 at 5:05 PM
To: Isadora Kratchman <izzy@etracinc.com>

---------- Forwarded message ----------
From: **Joanne Delaney - NOAA Affiliate** <joanne.delaney@noaa.gov>
Date: Mon, Aug 13, 2018 at 6:04 AM
Subject: Re: NOAA SURVEY IN FL KEYS
To: David Neff <david@etracinc.com>
Cc: Ryan Kilgo <ryan@bordelonmarine.com>, Jay Nunenkamp - NOAA Federal <jay.nunenkamp@noaa.gov>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Aron Lembke <aron@geodynamicsgroup.com>, Stephen Werndli - NOAA Federal <stephen.werndli@noaa.gov>, Dave Bernstein <dave@geodynamicsgroup.com>, David Neff <dave@etracinc.com>

Thank you very much, Mr. Neff, for your thorough response.

The entire Florida Keys National Marine Sanctuary is a no discharge zone. The only allowable discharges are fish/fish parts used when chumming or conducting a traditional fishing activity, water generated by routine vessel operations such as deck wash down and graywater (but excluding oily bilge waste), and cooling water/engine exhaust.

Regarding closed areas or areas where vessel access is restricted (e.g., no motor zones, no wake zones), FKNMS manages 27 Wildlife Management Areas (WMAs) to protect shallow seagrass, mangrove, and beach habitat for wildlife. The WMAs are all marked with white spar buoys that post their specific restriction. Most of the WMAs are located in the backcountry around mangrove islands -- see the yellow pins at https://floridakeys.noaa.gov/fknms_map/welcome.html?s=zones (you can click on each for more detail). I have also attached a map that shows several of the zones in relation to the lower Keys National Wildlife Refuges.

Please let me know if you have any additional questions.

Sincerely,
Joanne

---
Joanne Delaney
Resource Protection and Permit Coordinator
NOAA/Florida Keys National Marine Sanctuary
joanne.delaney@noaa.gov
(305) 809-4714
floridakeys.noaa.gov
Join us on Facebook
Follow us on Twitter

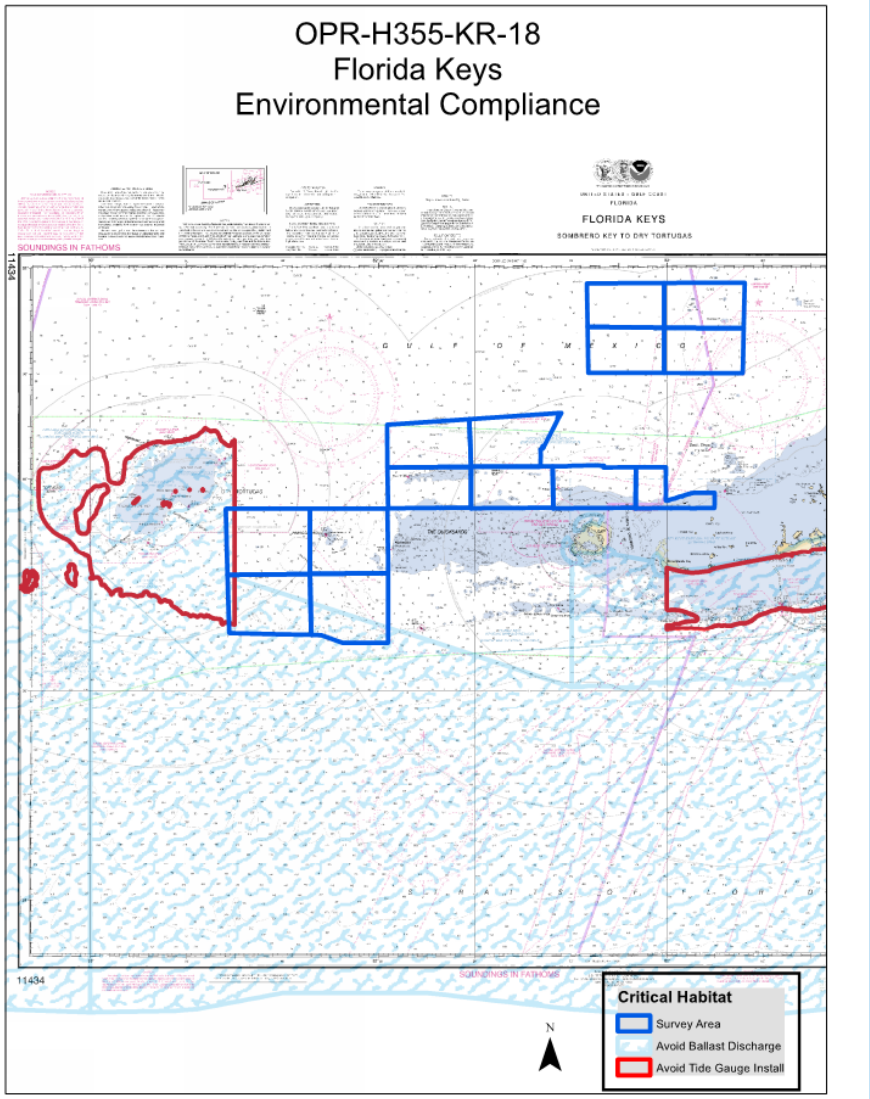
On Sat, Aug 11, 2018 at 8:48 PM, David Neff <david@etracinc.com> wrote:

> Hello All,
>
> Just to clarify Joannes bullets:
>
> - Placing any equipment on the sea floor or collecting bottom samples, or disturbing the sea floor in any other way except via traditional vessel anchoring;
>
> Per the instruction of Jacklyn James (NOAA Project COR), we have been instructed to not preform any physical bottom grabs.
>
> - Deploying AUVs (tethered ROVs that do not contact the sea floor are OK);

In replacement and to cover the "Drop Cam" specification, we will be deploying a small (30cm), tethered ROV from one of our launches to take bottom imagery at the designated sites.

- Discharging any other material or matter;

We have been given this graphic as a reference for ballast discharge, but understand that no discharge of any matter is permitted within the NMS? Correct?



Note: Environmental Compliance reference layers have been provided with the project instructions data package in the ArcGIS folder.

- Operating a vessel greater than 50m LOA within the Areas To Be Avoided (shown on all charts and attached);

This seems to have been confirmed that the vessel is certified less than 50 meters.

- Collecting any marine life from protected zones;

We will not be taking any physical or biological samples.

- Entering zones marked as no-motor or closed.

Are these "no-motor or closed zones" uncharted? If so, is there a file denoting these zones to confirm they do not land within our survey boundaries?

Dave Neff

On Fri, Aug 10, 2018 at 12:40 PM, Ryan Kilgo <ryan@bordelonmarine.com> wrote:

Ms. Delaney,

I have provided various documents as proof of the vessel's registry length over at 149 feet. The 170' categorization is how the vessel is commercial sized due to its deck space in comparison to similar vessels in the energy sector. We will have to defer to Geodynamics for any track lines and we understand the importance of protecting the reefs and marine life.

For everyone's awareness, the Coast Guard's Prevention Department (Marine Inspections) and the COTP are aware of our intentions to arrive this year. Earlier this summer the COTP approved the vessel's designation as an Oceanographic Research Vessel.

Sincerely,

Ryan W. Kilgo

Director of Compliance

Bordelon Marine, LLC

Office: (985) 601-4588

www.bordelonmarine.com

**From:** Joanne Delaney - NOAA Affiliate [mailto:joanne.delaney@noaa.gov]
**Sent:** Friday, August 10, 2018 2:20 PM
**To:** Ryan Kilgo <ryan@bordelonmarine.com>; Jay Nunenkamp - NOAA Federal <jay.nunenkamp@noaa.gov>; Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>; Aron Lembke <aron@geodynamicsgroup.com>
**Cc:** Stephen Werndli - NOAA Federal <stephen.werndli@noaa.gov>; Dave Bernstein <dave@geodynamicsgroup.com>; David Neff <dave@etracinc.com>
**Subject:** Re: NOAA SURVEY IN FL KEYS

Thank you, Jay, for the quick response.

To clarify to all who are on the OCS project team:

The following activities would trigger the need for a NOAA FKNMS permit; I have reviewed these with Jay and it appeared that none would occur:

- Placing any equipment on the sea floor or collecting bottom samples, or disturbing the sea floor in any other way except via traditional vessel anchoring;
- Deploying AUVs (tethered ROVs that do not contact the sea floor are OK);
- Discharging any other material or matter;
- Operating a vessel greater than 50m LOA within the Areas To Be Avoided (shown on all charts and attached);
- Collecting any marine life from protected zones;
- Entering zones marked as no-motor or closed.

There are other FKNMS prohibitions but these are the ones most often triggered by work in the sanctuary. Please let me know ASAP if you believe any of these prohibitions will be triggered by the OCS project.

Ryan -- if the vessel is just barely 50m LOA (but has some paperwork saying it's larger), please let me know your cruise track so I can ensure it is not in the ATBA. If you are going into the ATBA, I would still appreciate the track so we can be sure you are staying away from the reef. I would also like to let USCG Waterways Division and FWC LE know about your ops -- if they see a ship that big in the ATBA there are going to be questions.

Thanks, all,

Joanne

---
Joanne Delaney
Resource Protection and Permit Coordinator
NOAA/Florida Keys National Marine Sanctuary
joanne.delaney@noaa.gov
(305) 809-4714
floridakeys.noaa.gov
Join us on Facebook

Follow us on Twitter

On Fri, Aug 10, 2018 at 10:00 AM, Jay Nunenkamp - NOAA Federal <jay.nunenkamp@noaa.gov> wrote:

> All:
>
> I've forwarded this to Jacklyn James, the Physical Scientist for this project (I presume we're talking about OPR-H355-KR-18 here). Joanne and I did discuss this, and we ultimately came to the determination that a NMS permit was not required. I am not myself aware of any changes to the project that would have required a permit, but I'll let Jacklyn chime in.
>
> Sincerely,
>
> Jay Nunenkamp
>
> Environmental Compliance Coordinator
> Office of Coast Survey
>
> National Oceanic and Atmospheric Administration (NOAA)
> 240-533-0118
> SSMC3 Room 6513
>
> On Fri, Aug 10, 2018 at 9:55 AM, Stephen Werndli - NOAA Federal <stephen.werndli@noaa.gov> wrote:

Hi Aron,

I'm probably not the best contact for logistics, but I can usually find out who you should talk to. You might be able to use the Mole Pier for the Marcelle Bordelon, please contact NASKW Port Control at 757-620-7706 about that. If you aren't familiar with this location, here are the coordinates: 24.551811 -81.811308.

Ryan,

The spec sheet you sent indicates the Marcelle Bordelon is 170'. It appears the registered length is 149' (see attached). Would you please confirm that the registered length of the vessel is less than 164' (50 meters).

After talking with our Resource Protection and Permit Coordinator Joanne Delaney, it appears we were contacted about this project initially back in April and after some back and forth, determined that no permits would be needed from FKNMS. As long as those plans haven't changed, and the registered length of the Marcelle Bordelon is less than 50 meters, a FKNMS permit should not be needed.

Jay or Dave N, would you please confirm that this is the same project you contacted Joanne about and that those project plans haven't changed.

Thanks,

Steve

On Thu, Aug 9, 2018 at 2:11 PM, Aron Lembke <aron@geodynamicsgroup.com> wrote:

> Ryan,
>
> Thanks for the email and got your voicemail. Thanks for reaching out to Stephen... Stephen, hello!
>
> It sounds like you will be a great resource both for local knowledge as well as any logistics that might arise while working in and around the National Marine Sanctuary.
>
> I'm CC'ing Dave Neff with Etrac (we are partners on the NOAA charting surveys). He is the main project manager for this project. Also CC'd is Dave Bernstein who works with me at Geodynamics and together we figure out most of the logistics.
>
> Let us know what info from us would be helpful. We currently have dockage for our two small boats (30' Catamaran survey vessels), but will need to figure out where the Marcelle Bordelon could tie up for a day every 14-21 day to provision, fuel, and change crew. Ryan was going to take a stab at that (which he may have already discussed with you).

Thanks again, Aron

On Thu, Aug 9, 2018 at 1:57 PM Ryan Kilgo <ryan@bordelonmarine.com> wrote:

> Stephen,
>
> It was a pleasure speaking with you again.
>
> Following up on our conversation, one of our vessels is being chartered by Geodynamics to conduct some underwater survey for NOAA. I thought I'd introduce to you Aron Lembke. He is Geodynamics' Survey and Logistics Manager.
>
> For your awareness, here is a spec sheet on the vessel. http://bordelonmarine.com/spec sheets/MarcelleBordelon1.pdf
>
> Sincerely,
>
> Ryan W. Kilgo
>
> Director of Compliance
>
> Bordelon Marine, LLC
>
> Office: (985) 601-4588
>
> www.bordelonmarine.com

--

**Aron Lembke**
Captain / Survey and Logistics Manager

Geodynamics
310 A Greenfield Drive
Newport, NC 28570
Mobile: 252-732-4183 (preferred)
Office: 252-247-5785 ext. 111
Email: aron@geodynamicsgroup.com
(**Check out our NEW WEBSITE**)




--

**Stephen M. Werndli| Enforcement and Emergency Response Coordinator**

Direct: 305-434-9371 | Fax: 305-853-0877 | Cell: 305-797-7229
Stephen.Werndli@noaa.gov

Florida Keys National Marine Sanctuary
263 13th Avenue South

Suite 332

Saint Petersburg, FL 33701
http://floridakeys.noaa.gov/

Join us on Facebook

Follow us on Twitter

--
**David Neff, C.H.**
Lead Hydrographer
Mobile: (415) 517-0020
www.etracinc.com

--
**David Neff, C.H.**
Lead Hydrographer
Mobile: (415) 517-0020
www.etracinc.com

**WMAs in National Wildlife Refuge territory.pdf**
66K


**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 - Weekly Progress Report - 08/20/2018 to 08/26/2018

1 message

**Isadora Kratchman** <izzy@etracinc.com> Mon, Aug 27, 2018 at 1:55 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, kathryn.pridgen@noaa.gov
Cc: progress.sketches@noaa.gov, David Neff <dave@etracinc.com>
Bcc: Verena Kellner <verena@etracinc.com>, Lisa Diamond <lisa@etracinc.com>

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 08/26/2018 as well as the required 32 bit depth floating point raster.

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**2 attachments**

**OPR-H355-KR-18-_August_26.tif**
174K

**OPR-H355-KR-18-_August_26.pdf**
2549K

**David Neff <david@etracinc.com>**

# LNDARE investigation requirements

2 messages

**Isadora Kratchman** <izzy@etracinc.com> Wed, Aug 29, 2018 at 9:38 AM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, kathryn.pridgen@noaa.gov
Cc: Corey Allen - NOAA Federal <corey.allen@noaa.gov>, David Neff <dave@etracinc.com>, Lisa Diamond <lisa@etracinc.com>

Jacklyn and Kathryn,

Looking at the investigation requirements of our assigned features we have a question regarding the 2 assigned LNDARE features. Both of these feature are associated with LNDMRK towers.

The LNDARE investigation requirements state: Visually confirm feature object existence and capture height to confirm or update LNDELV. Note that an islet may become a UWTROC based on WATLEV; reference Appendix F.

We have the ability to confirm the existence but are we required to capture and report the elevation and if so to what accuracy? Does a visual estimation suffice?

Note, the LNDMRK investigation requirements state: Visually confirm feature object existence.

I have updated the noaa correspondence sheet with this question as issue #10.

https://docs.google.com/spreadsheets/d/1hhMAEg-l9vmYuZNNAmJAIhAH8wg0Ypx2M_LGDsUL-hs/edit#gid=0

Please let us know how we should move forward with these assigned features.

Best,
Izzy
--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

---

**Isadora Kratchman** <izzy@etracinc.com> Tue, Sep 4, 2018 at 8:23 AM
To: David Neff <david@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>

If the LNDARE is underwater we may be able to capture it by swinging our beams so we can stay a safe distance from the towers.

If the LNDARE is above water we will need to come up with a different plan.

---------- Forwarded message ---------
From: **Kathryn Pridgen - NOAA Federal** <kathryn.pridgen@noaa.gov>
Date: Tue, Sep 4, 2018 at 7:35 AM
Subject: Re: LNDARE investigation requirements
To: Isadora Kratchman <izzy@etracinc.com>
CC: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>

Isadora
In regards to your question on the investigation requirements for the LNDARE feature, I believe it is best to following the guidance of the HSSD 2018. Please visually confirm the existence of the features and obtain the height of the LNDARE feature. There is usually an associated LNDELV feature associated with the LNDARE feature, but in this case there is not, so we would like a height on

the LNDARE feature so we can submit the associated LNDELV and determine if the feature is correct attributed as a LNDARE feature or if it needs to be re-charted as a UWTROC feature. Please just visually confirm the LDNMRK feature, no height is needed for the LDNMRK feature.

Katy

---

Kathryn "Katy" Pridgen
Physical Scientist
NOAA-HSD OPS
240-533-0033
kathryn.pridgen@noaa.gov

[Quoted text hidden]

[Quoted text hidden]

eTrac

David Neff <david@etracinc.com>

# Sediment Card

6 messages

**Jacklyn** <jacklyn.c.james@noaa.gov> Fri, Aug 31, 2018 at 9:06 AM
To: David Neff <david@etracinc.com>
Cc: Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>

Dave,

I've attached the sediment card that NOAA ships are using in the field. It prints to scale on a 8.5"x11" sheet. Please let us know if you have questions.

--
Jacklyn James
Physical Scientist/ COR III
Hydrographic Surveys Division
1315 East-West Highway
SSMC3 Room 6114
Silver Spring, MD 20910
***(o)** 240-847-8173 **NEW NUMBER***

jacklyn.c.james@noaa.gov

To see live feeds from the NOAA Ship Okeanos Explorer go to the web site
below.
http://oceanexplorer.noaa.gov/okeanos/welcome.html#

**82436_SedRockCard.pdf**
461K

**David Neff** <david@etracinc.com> Fri, Aug 31, 2018 at 9:10 AM
To: Jacklyn <jacklyn.c.james@noaa.gov>
Cc: Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>

Ok, Thanks Jacklyn. You'll have to refresh my memory and I'm sorry if we've talked about this, but since we are not performing actual bottom samples, are we to use this card to estimate a sediment size and classification from the bottom sample imagery?
[Quoted text hidden]
--
**David Neff, C.H.**
Mobile: (415) 517-0020
www.etracinc.com

**Jacklyn** <jacklyn.c.james@noaa.gov> Fri, Aug 31, 2018 at 11:04 AM
To: David Neff <david@etracinc.com>
Cc: Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>

Hi Dave,

Yes. You can use the sediment card as a guide to describe the bottom characteristics of the still images collected. Appendix I Bottom Sample Drop Camera Imagery of the project instructions outlines the requirements for imagery collection with the exception of the guidance in number 4 **(Grab Sample – An image of the recovered sample with color card and grain size grid. If no grab sample is obtained e.g. hard substrate this image is not required)** because we decided against collecting physical samples. Please let me know if you have additional questions.

[Quoted text hidden]
[Quoted text hidden]
**Visit our Upcoming Hydrographic Surveys!**

To see live feeds from the NOAA Ship Okeanos Explorer go to the web site below.
http://oceanexplorer.noaa.gov/okeanos/welcome.html#

---

**David Neff** <david@etracinc.com> Sat, Sep 1, 2018 at 10:19 AM
To: Lisa Diamond <lisa@etracinc.com>, Isadora Kratchman <izzy@etracinc.com>

This is an email from Jackie
[Quoted text hidden]
--
**David Neff, C.H.**
Mobile: (415) 517-0020
www.etracinc.com

**82436_SedRockCard.pdf**
461K

---

**David Neff** <david@etracinc.com> Sat, Sep 1, 2018 at 10:20 AM
To: Isadora Kratchman <izzy@etracinc.com>, Lisa Diamond <lisa@etracinc.com>

This is her response when I asked her what we're supposed to do with it.
---------- Forwarded message ----------
From: **Jacklyn** <jacklyn.c.james@noaa.gov>
Date: Fri, Aug 31, 2018 at 11:04 AM
Subject: Re: Sediment Card
To: David Neff <david@etracinc.com>
Cc: Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>

[Quoted text hidden]
[Quoted text hidden]

---

**Isadora Kratchman** <izzy@etracinc.com> Sat, Sep 1, 2018 at 10:29 AM
To: David Neff <david@etracinc.com>

..... thanks Jackie.

[Quoted text hidden]
--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 - Weekly Progress Report - 08/27/2018 to 09/02/2018

1 message

**Isadora Kratchman** <izzy@etracinc.com> Mon, Sep 3, 2018 at 3:38 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, kathryn.pridgen@noaa.gov
Cc: progress.sketches@noaa.gov, David Neff <dave@etracinc.com>
Bcc: Verena Kellner <verena@etracinc.com>, Lisa Diamond <lisa@etracinc.com>

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 09/02/2018 as well as the required floating point raster.

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**2 attachments**

**OPR-H355-KR-18-_September_2.bag**
4097K

**OPR-H355-KR-18-_September_2.pdf**
739K

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 - Weekly Progress Report 9/03/2018 to 9/9/2018

1 message

**Isadora Kratchman** <izzy@etracinc.com> Mon, Sep 10, 2018 at 12:32 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, kathryn.pridgen@noaa.gov
Cc: progress.sketches@noaa.gov, David Neff <david@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 09/09/2018 as well as the required floating point raster.

Regards,
Izzy
--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**2 attachments**

**OPR_H355_KR_18_September_9.tif**
1772K

**OPR_H355_KR_18_-September_9.pdf**
3910K

Isadora Kratchman <izzy@etracinc.com>

# Question about definition of navigable area survey over shoals

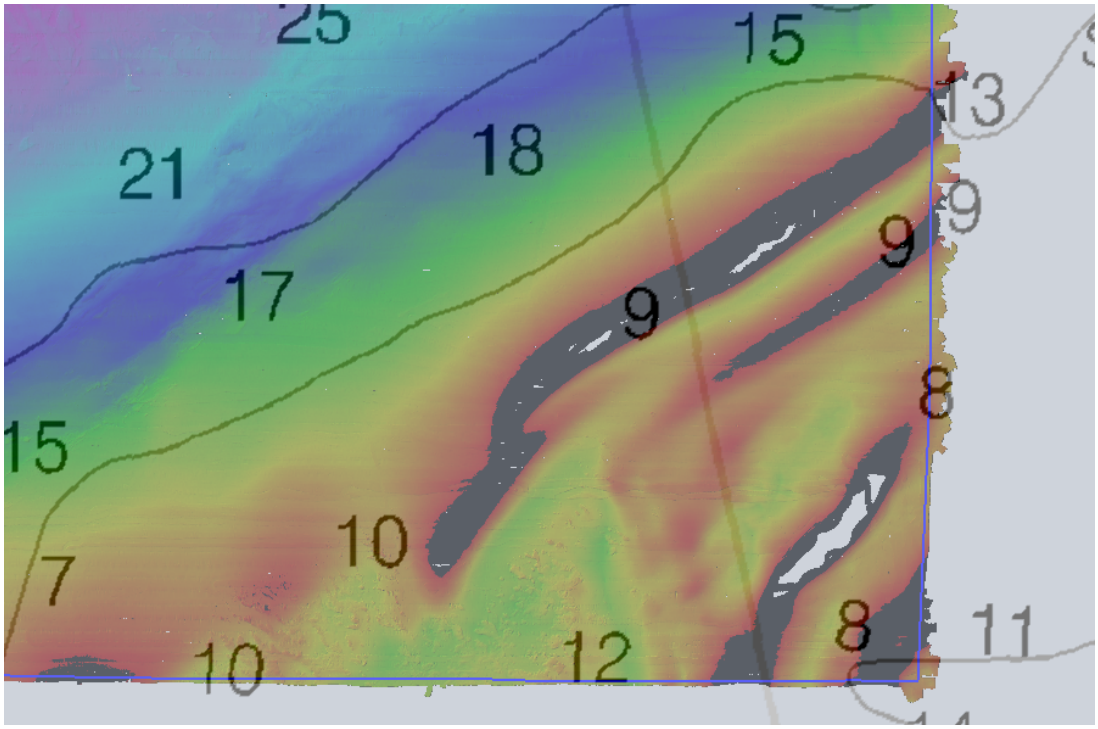
2 messages

**Isadora Kratchman** <izzy@etracinc.com> Tue, Sep 11, 2018 at 3:49 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, kathryn.pridgen@noaa.gov
Cc: David Neff <dave@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>

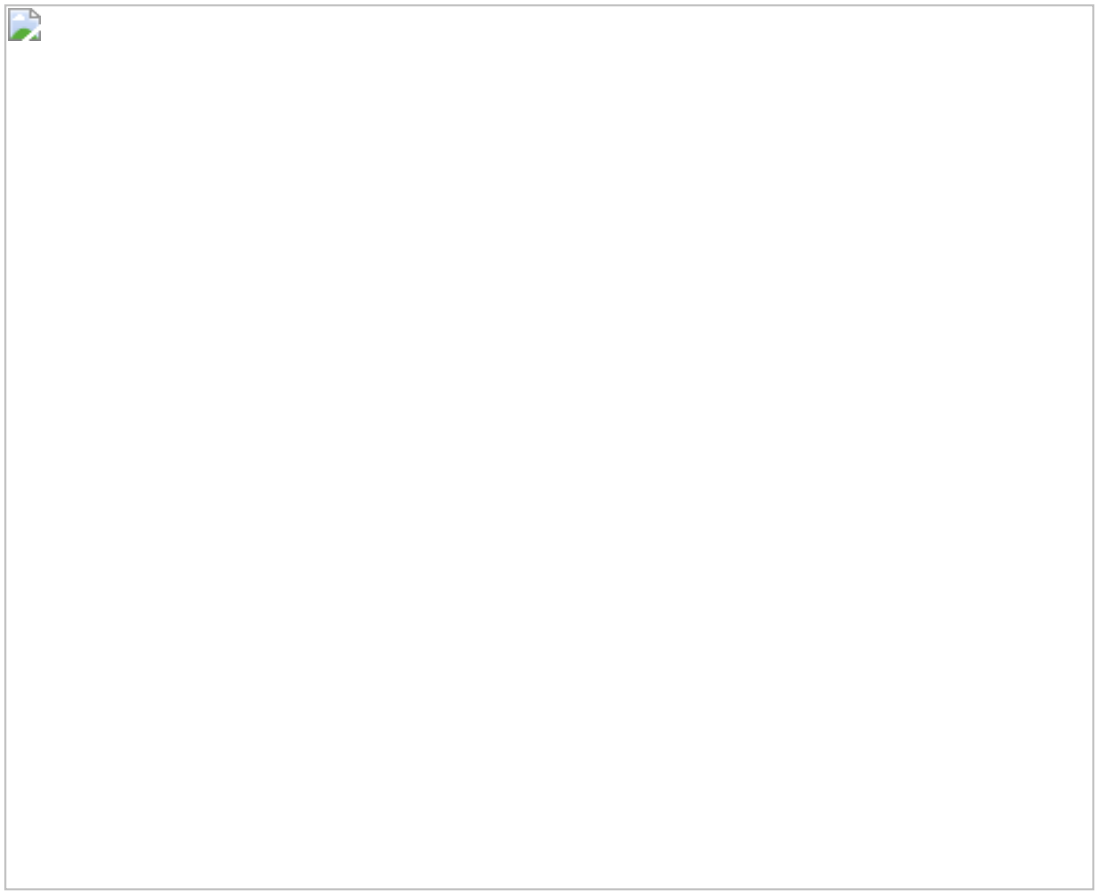
Jacklyn and Katy,

We have a question related to the navigable area survey definition.

At the south eastern corner of H13169 there are shoals that are shoaler than 3.5 meters, however the charted soundings of 9 and 8 feet match the depths we are seeing in our MBES data. See image below, Black represents depth less than 3.5m.




Reading Section 1.3.2 , #1 and #3 of HSSD 2018 we would like your guidance about survey approach in this area and future areas with shoals.



We currently have holidays on these areas. Are they considered holidays although the depth is shoaler than 3.5? Or are we required to complete full coverage MBES on these shoals if we think conditions are safe to approach?

I have added this question to our NOAA correspondence sheet. Item #13.

https://docs.google.com/spreadsheets/d/1hhMAEg-l9vmYuZNNAmJAIhAH8wg0Ypx2M_LGDsUL-hs/edit#gid=0

Best,
Izzy

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

---

**Kathryn Pridgen - NOAA Federal** <kathryn.pridgen@noaa.gov> Wed, Sep 12, 2018 at 8:50 AM
To: Isadora Kratchman <izzy@etracinc.com>
Cc: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, David Neff <dave@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>

Izzy
I have addressed the questions in the spreadsheet and provided answers. The hard answer to most of these questions is that you are not required to collect data in waters shoaller than the assigned NALL. Please let me know if you have additional questions. Also, could you please add the current total LNMs collected in each weekly report so we can keep track of LNMs collected vs. the LNM cap assigned.

Katy

---

Kathryn "Katy" Pridgen
Physical Scientist
NOAA-HSD OPS
240-533-0033
kathryn.pridgen@noaa.gov

[Quoted text hidden]

Isadora Kratchman <izzy@etracinc.com>

# OPR-H355-KR-18 - Weekly Progress Report 9/10/2018 to 9/16/2018

6 messages

**Lisa Diamond** <lisa@etracinc.com> Mon, Sep 17, 2018 at 12:39 PM
To: jacklyn.c.james@noaa.gov, kathryn.pridgen@noaa.gov
Cc: progress.sketches@noaa.gov, David Neff <dave@etracinc.com>, Isadora Kratchman <izzy@etracinc.com>, Verena Kellner <verena@etracinc.com>

Hello,

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 09/16/2018 as well as the required floating point raster.

Best Regards,

--
**Lisa Diamond**
Hydrographic Surveyor
Mobile: (847) 414-6783
www.etracinc.com

**2 attachments**

**OPR_H355_KR_18_September_16.tif**
2425K

**OPR_H355_KR_18_-September_16.pdf**
426K

**Kathryn Pridgen - NOAA Federal** <kathryn.pridgen@noaa.gov> Mon, Sep 17, 2018 at 12:48 PM
To: Lisa Diamond <lisa@etracinc.com>
Cc: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, progress.sketches@noaa.gov, David Neff <dave@etracinc.com>, Isadora Kratchman <izzy@etracinc.com>, Verena Kellner <verena@etracinc.com>

Lisa
Thank you for the submission of the weekly progress report and tiff. In the future could you please submit the tiff to this google drive folder:
https://drive.google.com/drive/folders/1VxBZrNh2L1aMcSvgagKoAMND7Ii0HHe2?usp=sharing

Eventually the tiff files become too large to email so we are asking all contractors to submit them via google drive instead. This folder is only for etrac files and we have added your email for access, please do not delete the existing files there. Please continue to submit the pdf weekly report via progress.sketches@noaa.gov

Thank you
Katy

---
Kathryn "Katy" Pridgen
Physical Scientist
NOAA-HSD OPS
240-533-0033
kathryn.pridgen@noaa.gov
[Quoted text hidden]

**Lisa Diamond** <lisa@etracinc.com> Mon, Sep 17, 2018 at 2:01 PM

To: Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, progress.sketches@noaa.gov, David Neff <dave@etracinc.com>, Isadora Kratchman <izzy@etracinc.com>, Verena Kellner <verena@etracinc.com>

Kathryn,

Thank you for the information. I have uploaded the two files to the google drive folder and will continue to upload the weekly deliverables to that location, as well as send the pdf of the weekly report via email.

Best Regards,
[Quoted text hidden]

---

**Isadora Kratchman** <izzy@etracinc.com> Mon, Sep 17, 2018 at 2:22 PM
To: Lisa Diamond <lisa@etracinc.com>

Shoot Lisa. Sorry for not telling you about the google drive. Totally forgot about it. Someone else from noaa had replied to me and asked me to start putting them there. Is the one from last week on there? I dont remember doing it.
[Quoted text hidden]
--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

---

**Lisa Diamond** <lisa@etracinc.com> Mon, Sep 17, 2018 at 2:24 PM
To: Isadora Kratchman <izzy@etracinc.com>

No worries, I didn't have access to that folder anyways so it was probably ok that I submitted it via email and added it after I gained access. And yes, last week is in there.
[Quoted text hidden]

---

**Isadora Kratchman** <izzy@etracinc.com> Mon, Sep 17, 2018 at 2:25 PM
To: Lisa Diamond <lisa@etracinc.com>

It's also not in the specs soooooo
Thanks noaa (:
[Quoted text hidden]

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 - Weekly Progress Report 9/17/2018 to 9/23/2018

2 messages

**Lisa Diamond** <lisa@etracinc.com> Mon, Sep 24, 2018 at 3:16 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: David Neff <david@etracinc.com>, Isadora Kratchman <izzy@etracinc.com>, Verena Kellner <verena@etracinc.com>, progress.sketches@noaa.gov

Hello,

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 09/23/2018. The associated floating point raster with data coverage through 09/23/2018 has been uploaded to the google drive folder.

Please note that our ship, the M/V Marcelle, has been collecting data this week but their data is not included in the floating point raster due to limited connectivity for data transfers.

Best Regards,

--
**Lisa Diamond**
Hydrographic Surveyor
Mobile: (847) 414-6783
www.etracinc.com

**OPR_H355_KR_18_-September_23.pdf**
399K

**Kathryn Pridgen - NOAA Federal** <kathryn.pridgen@noaa.gov> Tue, Sep 25, 2018 at 7:31 AM
To: Lisa Diamond <lisa@etracinc.com>
Cc: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, david@etracinc.com, Isadora Kratchman <izzy@etracinc.com>, Verena Kellner <verena@etracinc.com>, progress.sketches@noaa.gov

Thank you for the update.

---
Kathryn "Katy" Pridgen
Physical Scientist
NOAA-HSD OPS
240-533-0033
kathryn.pridgen@noaa.gov

[Quoted text hidden]

**Isadora Kratchman <izzy@etracinc.com>**

# eTrac Survey Operations - FKNMS

2 messages

**David Neff** <david@etracinc.com> Fri, Sep 28, 2018 at 11:09 AM
To: FKCFA1@hotmail.com, roy.crabtree@noaa.gov, sunny.snider@noaa.gov, Andy.Strelcheck@noaa.gov, Heather.Blough@noaa.gov, Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Dave Bernstein <dave@geodynamicsgroup.com>, Kyle Ward - NOAA Federal <kyle.ward@noaa.gov>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, Stacy Fullerton - NOAA Federal <stacy.fullerton@noaa.gov>, Isadora Kratchman <izzy@etracinc.com>, Joanne Delaney - NOAA Affiliate <joanne.delaney@noaa.gov>, Stephen Werndli - NOAA Federal <stephen.werndli@noaa.gov>, Ryan Kilgo <ryan@bordelonmarine.com>, Wes Bordelon <wes@bordelonmarine.com>, Tim Osborn <tim.osborn@noaa.gov>, Jay Nunenkamp - NOAA Federal <jay.nunenkamp@noaa.gov>

All,

I have had a professional and mutually respectful phone conversation with Capt. Bill Kelly from the Florida Keys Commercial Fishermen's Association. Capt. Kelly is a knowledgeable leader in the Florida Keys fishing community and we are working together to remedy the situation, and mitigate any negative impact that our survey operations may have on the local fishing community.

To recap:

While at dock yesterday (09/27) evening, one of the captains of the Marcelle Bordelon, was approached by a local lobster fisherman and a verbal exchange occurred. The fisherman alleged that the Marcelle Bordelon was running over lobster pots with no regard for the deployed equipment. The Marcelle captain had a less than cordial response, however tensions were reportedly high from both parties involved.

eTrac, along with its subcontractors, would like to state that it is our intention to work with and respect the local community. The response from the vessel captain does not reflect our intentions or attitude. This response is being investigated and corrected.

I have attached a Local Notice to Mariners to this email and will distribute it to USCG as well.

Moving forward, we will be correcting the behavior, attitude and understanding of anyone involved in the survey operation to align with eTrac's overall goal of working safely and efficiently with the local community so as not to negatively affect any local fishing activity, destroy property, or disrupt the livelihoods of any individuals.

We are making an immediate effort to educate the local community on our operations so that the community as a whole is more aware of our survey operations, geographic area of operations, and general intentions.

I will be working with Capt. Kelly and other local resources to identify ways to mitigate the situation, as we do need to continue to be productive with our survey work as well.

If anyone has any questions whatsoever, please do not hesitate to contact me via email or my direct cell phone. 415-517-0020. We promote open communication and are committed to the common goal of positive and thoughtful stewardship of our oceans.

P.S. For a graphic of our survey boundaries and up to date progress of the operations, please follow the link below to access our live project tracker.

noaa.etracinc.com

--
**David Neff, C.H.**
Mobile: (415) 517-0020
www.etracinc.com

**LNM_eTrac_180928.pdf**

381K

---

**Bill Kelly** <fkcfa1@hotmail.com> Sun, Sep 30, 2018 at 1:43 PM
To: David Neff <david@etracinc.com>, "roy.crabtree@noaa.gov" <roy.crabtree@noaa.gov>, "sunny.snider@noaa.gov" <sunny.snider@noaa.gov>, "Andy.Strelcheck@noaa.gov" <Andy.Strelcheck@noaa.gov>, "Heather.Blough@noaa.gov" <Heather.Blough@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Dave Bernstein <dave@geodynamicsgroup.com>, Kyle Ward - NOAA Federal <kyle.ward@noaa.gov>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, Stacy Fullerton - NOAA Federal <stacy.fullerton@noaa.gov>, Isadora Kratchman <izzy@etracinc.com>, Joanne Delaney - NOAA Affiliate <joanne.delaney@noaa.gov>, Stephen Werndli - NOAA Federal <stephen.werndli@noaa.gov>, Ryan Kilgo <ryan@bordelonmarine.com>, Wes Bordelon <wes@bordelonmarine.com>, Tim Osborn <tim.osborn@noaa.gov>, Jay Nunenkamp - NOAA Federal <jay.nunenkamp@noaa.gov>, David Dipre <david.dipre@myfwc.com>

David,

Thanks for the prompt response and copy of the 'Hydrographic Operations Plan' which I have forwarded to our fishermen and FWC Law Enforcement. No other incidents have been reported to me and I trust your rapid response has perhaps avoided the threat of any future incidents.

Bill

Capt. Bill Kelly, Executive Director
Florida Keys Commercial Fishermen's Association
PO Box 501404
Marathon, FL 33050
305-619-0039 C
305-743-0294 F
FKCFA1@hotmail.com
www.FKCFA.org

---

**From:** David Neff <david@etracinc.com>
**Sent:** Friday, September 28, 2018 2:09 PM
**To:** FKCFA1@hotmail.com; roy.crabtree@noaa.gov; sunny.snider@noaa.gov; Andy.Strelcheck@noaa.gov; Heather.Blough@noaa.gov; Corey Allen - NOAA Federal; Dave Bernstein; Kyle Ward - NOAA Federal; Jacklyn James - NOAA Federal; Kathryn Pridgen - NOAA Federal; Stacy Fullerton - NOAA Federal; Isadora Kratchman; Joanne Delaney - NOAA Affiliate; Stephen Werndli - NOAA Federal; Ryan Kilgo; Wes Bordelon; Tim Osborn; Jay Nunenkamp - NOAA Federal
**Subject:** eTrac Survey Operations - FKNMS

[Quoted text hidden]

---

**LNM_eTrac_180928.pdf**
381K

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 - Weekly Progress Report 9/24/2018 to 9/30/2018

1 message

**Isadora Kratchman** <izzy@etracinc.com> Mon, Oct 1, 2018 at 3:14 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: David Neff <david@etracinc.com>, Verena Kellner <verena@etracinc.com>, progress.sketches@noaa.gov, Lisa Diamond <lisa@etracinc.com>

All,

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 09/30/2018. The associated floating point raster with data coverage through 09/30/2018 has been uploaded to the google drive folder.

Best Regards,

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**OPR_H355_KR_18_-September_30.pdf**
4148K

eTrac

David Neff <david@etracinc.com>

# Preliminary Bathy For Planning

4 messages

**David Neff** <david@etracinc.com> Wed, Oct 3, 2018 at 9:59 AM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>, "J. Christopher Taylor" <chris.taylor@noaa.gov>

Hi Jacklyn and Katy,

Chris Taylor is currently planning a cruise on the Nancy Foster in the FL Keys NMS to start on or around November 5th. He has requested preliminary bathy data from our current project for planning purposes. We will be exporting BAGs for him and will setup a download link. Just wanted to keep you in the loop and make sure there are no questions or concerns with this.

--
**David Neff, C.H.**
Mobile: (415) 517-0020
www.etracinc.com

---

**Chris Taylor - NOAA Federal** <chris.taylor@noaa.gov> Wed, Oct 3, 2018 at 12:14 PM
To: David Neff <david@etracinc.com>
Cc: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, kathryn.pridgen@noaa.gov, Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Don Field <Don.Field@noaa.gov>

Thanks Dave.
We've been keeping up with the progress on the FKNMS project. Very cool website. Interesting features already developed and good to see the video data.
[Quoted text hidden]
--
J. Christopher Taylor, PhD
National Centers for Coastal Ocean Science
@ NOAA's Beaufort Laboratory
101 Pivers Island Road, Beaufort, North Carolina 28516
O: +1 252 838 0833 M: +1 252 723 3993
Website: http://coastalscience.noaa.gov/

---

**Kathryn Pridgen - NOAA Federal** <kathryn.pridgen@noaa.gov> Wed, Oct 3, 2018 at 12:39 PM
To: David Neff <david@etracinc.com>
Cc: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>, chris.taylor@noaa.gov

Dave,
Thank you for the information. Please continue to keep us informed.

Katy

---
Kathryn "Katy" Pridgen
Physical Scientist
NOAA-HSD OPS
240-533-0033
kathryn.pridgen@noaa.gov

On Wed, Oct 3, 2018 at 12:59 PM David Neff <david@etracinc.com> wrote:
[Quoted text hidden]

---

**David Neff** <david@etracinc.com> Thu, Oct 4, 2018 at 1:28 PM
To: "J. Christopher Taylor" <chris.taylor@noaa.gov>
Cc: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Don.Field@noaa.gov, Isadora Kratchman <izzy@etracinc.com>

Chris,
We've made the BAG export of all data on the project to date. Click the link below for the download:

BAG DOWNLOAD

The download is approx 1 GB.

Latest Coverage:
noaa.etracinc.com
[Quoted text hidden]

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 September Monthly Report

1 message

**Isadora Kratchman** <izzy@etracinc.com> Thu, Oct 4, 2018 at 12:41 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: David Neff <david@etracinc.com>

Jacklyn and Kathryn,

Attached is our September Monthly Report for OPR-H355-KR-18.

We will also upload this report via TOMIS.

Best Regards,
Izzy
--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**eTrac_Productivity Report_September_2018.xlsx**
109K

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 - Weekly Progress Report 10/01/2018 to 10/07/2018

1 message

**Isadora Kratchman** <izzy@etracinc.com> Mon, Oct 8, 2018 at 10:49 AM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: David Neff <david@etracinc.com>, Verena Kellner <verena@etracinc.com>, progress.sketches@noaa.gov, Lisa Diamond <lisa@etracinc.com>

All,

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 10/07/2018. The associated floating point raster with data coverage through 10/07/2018 has been uploaded to the google drive folder.

Best Regards,

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**OPR_H355_KR_18_-October_7.pdf**
4178K

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 - Weekly Progress Report 10/08/2018 to 10/14/2018

2 messages

**Isadora Kratchman** <izzy@etracinc.com> Mon, Oct 15, 2018 at 1:31 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: David Neff <david@etracinc.com>, Verena Kellner <verena@etracinc.com>, progress.sketches@noaa.gov, Lisa Diamond <lisa@etracinc.com>

All,

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 10/14/2018. The associated floating point raster with data coverage through 10/14/2018 has been uploaded to the google drive folder.

Best Regards,

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**OPR_H355_KR_18_-October_14.pdf**
4793K

**Isadora Kratchman** <izzy@etracinc.com> Mon, Oct 15, 2018 at 1:41 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: David Neff <david@etracinc.com>, Verena Kellner <verena@etracinc.com>, progress.sketches@noaa.gov, Lisa Diamond <lisa@etracinc.com>

All,

There was a mistake in our percentages on the first page of the report.

Attached is the corrected weekly report detailing OPR-H355-KR-18 project completion through 10/14/2018. I have re-uploaded the report to the google drive folder.

Best Regards,
Izzy
[Quoted text hidden]

**OPR_H355_KR_18_-October_14.pdf**
4793K

David Neff <david@etracinc.com>

# eTrac Delivery to AHB of OPR-H355-KR-18

5 messages

**David Neff** <david@etracinc.com> Fri, Oct 19, 2018 at 1:58 PM
To: Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, Castle Parker - NOAA Federal <castle.e.parker@noaa.gov>, Isadora Kratchman <izzy@etracinc.com>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>

Kathryn,

To recap the conversations today.

This morning I had a conversation with Gene Parker discussing eTrac's delivery of OPR-H355-KR-18 Florida Keys. eTrac is utilizing Qimera for processing of multibeam data and generating S57 FFF deliverable files. As Qimera is not a accepted branch deliverable per HSSD, these are the steps we will be taking per our recent conversation:

1. We will deliver GSF files in the specified folder HXXXXX_GSF. The GSF files will be all processed point files that the grid deliverable is based upon. This will mean an importing step at the branch, but will satisfy the spec.

2. We will deliver our Qimera project. Talking with Gene, it sounds like they would like to be able to open the Qimera project there and have a look around during the QC process. This would not require any import/rebuilding work, however is not a specified deliverable.

Let me know if there are any questions or suggestions you would like to make to our current understanding.

Can you please advise a folder to deliver the Qimera Project in within Appendix J?

have a great weekend

--
**David Neff, C.H.**
Mobile: (415) 517-0020
www.etracinc.com

**Kathryn Pridgen - NOAA Federal** <kathryn.pridgen@noaa.gov> Mon, Oct 22, 2018 at 8:24 AM
To: David Neff <david@etracinc.com>
Cc: Castle Parker - NOAA Federal <castle.e.parker@noaa.gov>, Isadora Kratchman <izzy@etracinc.com>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>

Dave
Thank you for the summary. Please submit all files as Gene has specified.

Thank you
katy

---
Kathryn "Katy" Pridgen
Physical Scientist
NOAA-HSD OPS
240-533-0033
kathryn.pridgen@noaa.gov

[Quoted text hidden]

**David Neff** <david@etracinc.com> Mon, Oct 22, 2018 at 8:49 AM
To: Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: Castle Parker - NOAA Federal <castle.e.parker@noaa.gov>, Isadora Kratchman <izzy@etracinc.com>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>

Ok Kathryn, sounds good. Can you or Gene please specify a directory to deliver the Qimera project within?

Thanks

Dave
[Quoted text hidden]

---

**Castle Parker - NOAA Federal** <castle.e.parker@noaa.gov> Mon, Oct 22, 2018 at 8:57 AM
To: David Neff <david@etracinc.com>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: Isadora Kratchman <izzy@etracinc.com>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>

Good day,

Recommend to add the Qimera project under the Sonar_Data directory.

OPR-H355-KR-18\HXXXX\Processed\Sonar_Data\Qimera

Although this is not specified under HSSD 2018 Appendix J, it seems to be the most logical place.

If agreed, place this email trail in DR Appendix 2 Supplemental_Survey_Records_Correspondence to serve as the documentation for the deviation.

Thanks and regards,

gp

*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:** David Neff <david@etracinc.com>
**Sent:** Monday, October 22, 2018 11:50 AM
**To:** Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
**Cc:** Castle Parker - NOAA Federal <castle.e.parker@noaa.gov>; Isadora Kratchman <izzy@etracinc.com>; Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>; Corey Allen - NOAA

Federal <corey.allen@noaa.gov>
**Subject:** Re: eTrac Delivery to AHB of OPR-H355-KR-18

[Quoted text hidden]

---

**David Neff** <david@etracinc.com> Mon, Oct 22, 2018 at 8:59 AM
To: Castle Parker - NOAA Federal <castle.e.parker@noaa.gov>
Cc: Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, Isadora Kratchman <izzy@etracinc.com>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>

Agreed, that is a logical place to place the Qimera project. Will include this correspondence in Appendix 2.

Thanks,

Dave
[Quoted text hidden]

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 - Weekly Progress Report 10/15/2018 to 10/21/2018

1 message

**Isadora Kratchman** <izzy@etracinc.com> Mon, Oct 22, 2018 at 2:42 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: progress.sketches@noaa.gov, David Neff <dave@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>

All,

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 10/21/2018. The associated floating point raster with data coverage through 10/21/2018 has been uploaded to the google drive folder.

Best Regards,

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**OPR_H355_KR_18_-October_21.pdf**
4925K

David Neff <david@etracinc.com>

# NATQUA Attribute on Bottom Samples

6 messages

**David Neff** <david@etracinc.com> Thu, Nov 8, 2018 at 10:18 AM
To: Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Isadora Kratchman <izzy@etracinc.com>

Hi Kathryn,

After speaking with Izzy this morning, eTrac feels that it would be reaching to determine a NATQUA attribute from the dropcam imagery alone without a physical sample. Can you please advise? Should we leave that attribute blank with a note?

--
**David Neff, C.H.**
Mobile: (415) 517-0020
www.etracinc.com

---

**Kathryn Pridgen - NOAA Federal** <kathryn.pridgen@noaa.gov> Thu, Nov 8, 2018 at 10:37 AM
To: David Neff <david@etracinc.com>
Cc: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Isadora Kratchman <izzy@etracinc.com>

Dave,
Could you please provide some examples of the imagery captured by the drop camera? Do you think you can at least differentiate between a soft vs hard bottom type?

Katy

---
Kathryn "Katy" Pridgen
Physical Scientist
NOAA-HSD OPS
240-533-0033
kathryn.pridgen@noaa.gov

[Quoted text hidden]

---

**David Neff** <david@etracinc.com> Thu, Nov 8, 2018 at 10:47 AM
To: Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Isadora Kratchman <izzy@etracinc.com>

Good idea. Izzy is packing up some images now and then you can see what we're talking about.

Dave
[Quoted text hidden]

---

**David Neff** <david@etracinc.com> Thu, Nov 8, 2018 at 11:08 AM
To: Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Isadora Kratchman <izzy@etracinc.com>

Kathryn,

Attached are a bunch of images so you get a good idea of what we're working with. The thought is that we can have confidence in determining NATQUA attributes of some samples, but not all of them. Have a look through the images and maybe give a call or chat to discuss.

Dave
[Quoted text hidden]

**ROV Images.zip**
6966K

---

**Kathryn Pridgen - NOAA Federal** <kathryn.pridgen@noaa.gov> Thu, Nov 8, 2018 at 12:25 PM
To: David Neff <david@etracinc.com>
Cc: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Isadora Kratchman <izzy@etracinc.com>, Martha Herzog - NOAA Federal <martha.herzog@noaa.gov>

Dave,
Do you feel confident that you can determine the correct NATSUR attribution for these drop camera images?

Katy

---
Kathryn "Katy" Pridgen
Physical Scientist
NOAA-HSD OPS
240-533-0033
kathryn.pridgen@noaa.gov

On Thu, Nov 8, 2018 at 1:19 PM David Neff <david@etracinc.com> wrote:
[Quoted text hidden]

---

**David Neff** <david@etracinc.com> Thu, Nov 8, 2018 at 1:38 PM
To: Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Isadora Kratchman <izzy@etracinc.com>, Martha Herzog - NOAA Federal <martha.herzog@noaa.gov>

Kathryn,

To summarize our conversation just now and close this item.

eTrac feels comfortable determining the NATSUR for each bottom sample from the existing imagery.

As NATQUA is not a requirement, we will not be attributing it based on insufficient field sample data.

We will document this decision making process in our DR and provide feedback on the advantages and disadvantages of each sampling technique (dropcam and physical grabs).

I've updated our project correspondence as well:

https://docs.google.com/spreadsheets/d/1hhMAEg-l9vmYuZNNAmJAIhAH8wg0Ypx2M_LGDsUL-hs/edit#gid=0

Dave
[Quoted text hidden]

eTrac

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 - Weekly Progress Report 10/22/2018 to 10/28/2018

4 messages

**Isadora Kratchman** <izzy@etracinc.com> Mon, Oct 29, 2018 at 10:50 AM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: progress.sketches@noaa.gov, David Neff <dave@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>

All,

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 10/28/2018. The associated floating point raster with data coverage through 10/28/2018 has been uploaded to the google drive folder.

Best Regards,

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**OPR_H355_KR_18_-October_28.pdf**
4342K

**Meredith Payne - NOAA Federal** <meredith.payne@noaa.gov> Mon, Oct 29, 2018 at 11:39 AM
To: Isadora Kratchman <izzy@etracinc.com>

Hi Isadora,
I do not see the floating point raster in Google Drive.
Sincerely,
Meredith
[Quoted text hidden]
--
Meredith C. Payne
Physical Scientist,
Hydrographic Surveys Division Operations Branch
National Oceanic & Atmospheric Administration
1315 East-West Hwy, N/CS31
Silver Spring, MD 20910
240-533-0025
Visit our StoryMap!
Sign up for our Weekly Hydrographic Ship Reports Newsletter

**Isadora Kratchman** <izzy@etracinc.com> Mon, Oct 29, 2018 at 11:45 AM
To: meredith.payne@noaa.gov

Meredith,

Just re-uploaded the floating point raster.

Best,
Izzy
[Quoted text hidden]

**Meredith Payne - NOAA Federal** <meredith.payne@noaa.gov> Mon, Oct 29, 2018 at 11:50 AM

To: Isadora Kratchman <izzy@etracinc.com>

Thanks!

[Quoted text hidden]

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 September Monthly Report

1 message

**Isadora Kratchman** <izzy@etracinc.com> Mon, Nov 5, 2018 at 2:30 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: David Neff <dave@etracinc.com>

Jacklyn and Kathryn,

Attached is our October Monthly Report for OPR-H355-KR-18.

We will also upload this report via TOMIS.

Best Regards,
Izzy

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**eTrac_Productivity Report_Octoberr_2018.xlsx**
108K

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 - Weekly Progress Report 10/29/2018 to 11/4/2018

1 message

**Isadora Kratchman** <izzy@etracinc.com> Mon, Nov 5, 2018 at 4:04 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: progress.sketches@noaa.gov, David Neff <dave@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>

All,

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 11/04/2018. The associated floating point raster with data coverage through 11/04/2018 has been uploaded to the google drive folder.

Best Regards,

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**OPR_H355_KR_18_-November_04.pdf**
5547K

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 - Weekly Progress Report 11/5/2018 to 11/11/2018

1 message

**Isadora Kratchman** <izzy@etracinc.com> Mon, Nov 12, 2018 at 12:44 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: progress.sketches@noaa.gov, David Neff <dave@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>

All,

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 11/11/2018. The associated floating point raster with data coverage through 11/11/2018 has been uploaded to the google drive folder.

Best Regards,

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**OPR_H355_KR_18_-November_11.pdf**
4543K

Lisa Diamond <lisa@etracinc.com>

# OPR-H355-KR-18 - Weekly Progress Report 11/12/2018 to 11/18/2018

**Isadora Kratchman** <izzy@etracinc.com> Mon, Nov 19, 2018 at 10:41 AM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: David Neff <dave@etracinc.com>, progress.sketches@noaa.gov, Verena Kellner <verena@etracinc.com>, Lisa Diamond <lisa@etracinc.com>

All,

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 11/18/2018. The associated floating point raster with data coverage through 11/18/2018 has been uploaded to the google drive folder.

Best Regards,

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**OPR_H355_KR_18_-November_18.pdf**
5023K

Isadora Kratchman <izzy@etracinc.com>

# OPR-H355-KR-18 - Weekly Progress Report 11/12/2018 to 11/25/2018

1 message

**Isadora Kratchman** <izzy@etracinc.com> Mon, Nov 26, 2018 at 9:55 AM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: David Neff <dave@etracinc.com>, progress.sketches@noaa.gov, Verena Kellner <verena@etracinc.com>, Lisa Diamond <lisa@etracinc.com>

All,

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 11/25/2018. The associated floating point raster with data coverage through 11/25/2018 has been uploaded to the google drive folder.

Best Regards,

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**OPR_H355_KR_18_-November_25.pdf**
4651K

eTrac

**Isadora Kratchman <izzy@etracinc.com>**

# H13169, F00757 and Multibeam Calibration Data Submittal to AHB

**Kathryn Pridgen - NOAA Federal** <kathryn.pridgen@noaa.gov> Fri, Nov 30, 2018 at 10:08 AM
To: Isadora Kratchman <izzy@etracinc.com>
Cc: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, David Neff <dave@etracinc.com>, Lisa Diamond <lisa@etracinc.com>

Thank you for the submission

Katy

---
Kathryn "Katy" Pridgen
Physical Scientist
NOAA-HSD OPS
240-533-0033
kathryn.pridgen@noaa.gov

On Thu, Nov 29, 2018 at 12:59 PM Isadora Kratchman <izzy@etracinc.com> wrote:

> Kathryn and Jacklyn,
>
> A delivery drive with H13169, F00757, and Multibeam Calibration Data has been shipped to AHB.
>
> The drive is scheduled to arrive Wednesday 12/5/2018.
>
> Fedex Tracking #773826614570
>
> Attached is the data transmittal form that is accompanying the drive.
>
> Best regards,
> --
> **Isadora Kratchman**
> Hydrographic Surveyor
> Mobile: (301) 706-9246
> www.etracinc.com

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 - Weekly Progress Report 11/26/2018 to 12/2/2018

1 message

**Isadora Kratchman** <izzy@etracinc.com> Mon, Dec 3, 2018 at 11:35 AM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: David Neff <dave@etracinc.com>, progress.sketches@noaa.gov, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>

All,

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 12/2/2018. The associated floating point raster with data coverage through 12/2/2018 has been uploaded to the google drive folder.

Best Regards,

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**OPR_H355_KR_18_-December_02.pdf**
4793K

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 November Monthly Report

1 message

**Isadora Kratchman** <izzy@etracinc.com> Tue, Dec 4, 2018 at 1:14 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: David Neff <dave@etracinc.com>

Jacklyn and Kathryn,

Attached is our November Monthly Report for OPR-H355-KR-18.

We will also upload this report via TOMIS.

Best Regards,
Izzy

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**eTrac_Productivity Report_November_2018.xlsx**
110K

Isadora Kratchman <izzy@etracinc.com>

# OPR-H355-KR-18 Florida Keys

**David Neff** <david@etracinc.com> Mon, Dec 10, 2018 at 12:20 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>
Cc: Isadora Kratchman <izzy@etracinc.com>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>

I'm leaving tomorrow for a quick trip to the east coast, flying back on Thrusday, but today is good if you have a free moment now through the rest of today.

On Mon, Dec 10, 2018 at 12:19 PM Jacklyn <jacklyn.c.james@noaa.gov> wrote:

> Thanks Dave. I would love to catch up by phone. Please let me know what time works for you.
>
> On Mon, Dec 10, 2018 at 3:16 PM David Neff <david@etracinc.com> wrote:
>
> > Welcome back Jacklyn,
> >
> > Things have been eventful in your absence, as I am sure Kathryn has relayed to you by now. Let me know if you would like to catchup via phone for a project update.
> >
> > Dave
> >
> > On Mon, Dec 10, 2018 at 12:14 PM Jacklyn <jacklyn.c.james@noaa.gov> wrote:
> >
> > > All,
> > >
> > > I'm officially back in the Operations Branch and will resume my role as COR/PM for this project. Thanks to Kathryn for managing the project while I was away on my detail with the Marine Charting Division.
> > >
> > > --
> > > Jacklyn James
> > > Physical Scientist/ COR III
> > > Hydrographic Surveys Division
> > > 1315 East-West Highway
> > > SSMC3 Room 6114
> > > Silver Spring, MD 20910
> > > ***(o) 240-847-8173 NEW NUMBER***
> > >
> > > jacklyn.c.james@noaa.gov
> > >
> > > **View our Upcoming Hydrographic Surveys!**
> > >
> > > To see live feeds from the NOAA Ship Okeanos Explorer go to the web site
> > > below.
> > > http://oceanexplorer.noaa.gov/okeanos/welcome.html#
> >
> > --
> > **David Neff, C.H.**
> > Mobile: (415) 517-0020
> > www.etracinc.com

--
Jacklyn James
Physical Scientist/ COR III

Hydrographic Surveys Division
1315 East-West Highway
SSMC3 Room 6114
Silver Spring, MD 20910
***(o) 240-847-8173 NEW NUMBER***

jacklyn.c.james@noaa.gov

**View our Upcoming Hydrographic Surveys!**

To see live feeds from the NOAA Ship Okeanos Explorer go to the web site below.
http://oceanexplorer.noaa.gov/okeanos/welcome.html#

--
**David Neff, C.H.**
Mobile: (415) 517-0020
www.etracinc.com

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 - Weekly Progress Report 12/03/2018 to 12/09/2018

**Lisa Diamond** <lisa@etracinc.com> Mon, Dec 10, 2018 at 2:17 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: David Neff <dave@etracinc.com>, Isadora Kratchman <izzy@etracinc.com>, Verena Kellner <verena@etracinc.com>, progress.sketches@noaa.gov

All,

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 12/9/2018. The associated floating point raster with data coverage through 12/9/2018 has been uploaded to the google drive folder.

Best Regards,
--
**Lisa Diamond**
Hydrographic Surveyor
Mobile: (847) 414-6783
www.etracinc.com

**OPR_H355_KR_18_-December_09.pdf**
788K

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 - Weekly Progress Report 12/10/2018 to 12/16/2018

1 message

**Isadora Kratchman** <izzy@etracinc.com> Mon, Dec 17, 2018 at 9:47 AM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: progress.sketches@noaa.gov, David Neff <dave@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>

All,

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 12/16/2018. The associated floating point raster with data coverage through 12/16/2018 has been uploaded to the google drive folder.

Best Regards,

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**OPR_H355_KR_18_-December_16.pdf**
4626K

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 - Weekly Progress Report 12/17/2018 to 12/23/2018

**Isadora Kratchman** <izzy@etracinc.com> Mon, Dec 24, 2018 at 8:57 AM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: progress.sketches@noaa.gov, David Neff <dave@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>

All,

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 12/23/2018. The associated floating point raster with data coverage through 12/23/2018 has been uploaded to the google drive folder.

Best Regards,

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**OPR_H355_KR_18_-December_23.pdf**
70K

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-18 December Monthly Report

**Isadora Kratchman** <izzy@etracinc.com> Mon, Jan 7, 2019 at 5:17 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: David Neff <dave@etracinc.com>, Lisa Diamond <lisa@etracinc.com>

Jacklyn and Kathryn,

Attached is our December Monthly Report for OPR-H355-KR-18.

We will also upload this report via TOMIS once the site is back online.

Best Regards,
Izzy

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**eTrac_Productivity Report_December_2018.xlsx**
110K

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-19 - Weekly Progress Report 1/07/2019 to 1/13/2019

**Isadora Kratchman** <izzy@etracinc.com> Mon, Jan 14, 2019 at 4:27 PM
To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
Cc: David Neff <dave@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, progress.sketches@noaa.gov, Verena Kellner <verena@etracinc.com>

All,

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 1/14/2019. The associated floating point raster with data coverage through 1/14/2019 has been uploaded to the google drive folder.

Best Regards

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**OPR_H355_KR_18_-January_13.pdf**
4742K

**Isadora Kratchman <izzy@etracinc.com>**

# H13160 DtoNs 01 - 04

**Briana Hillstrom - NOAA Federal** <Briana.Hillstrom@noaa.gov> Fri, Jan 18, 2019 at 11:25 AM
To: Isadora Kratchman <izzy@etracinc.com>
Cc: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, "'ahb.dton@noaa.gov' (ahb.dton@noaa.gov)" <ahb.dton@noaa.gov>, David Neff <dave@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>

Thank you for your email. For your records, this DTON submission won't be processed until after the partial Government Shudown ends.

On Thu, Jan 17, 2019 at 6:37 PM Isadora Kratchman <izzy@etracinc.com> wrote:

> **H13160_1m.tif**
>
> All,
>
> Please find attached the standard DtoN packages detailing H13160 DtoN 01_1-7, DtoN 02, DtoN 03, and DtoN 04.
>
> H13160 DtoN 01_1-7 is a cluster of rocks
> H13160 DtoN 02 is a sounding on an uncharted shoal
> H13160 DtoN 03 is a rock
> H13160 DtoN 04 is a rock
>
> Also attached is a 1m tiff of the area to mimic our delivery guidance of previous clusters.
>
> Best Regards,
>
> --
> **Isadora Kratchman**
> Hydrographic Surveyor
> Mobile: (301) 706-9246
> www.etracinc.com

--
CDR Briana Welton Hillstrom, NOAA
Office of Coast Survey
Chief, Atlantic Hydrographic Branch
439 W York St, Norfolk, VA 23510
office: 757-364-7460
cell: 520-227-9269

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-19 - Weekly Progress Report 1/14/2019 to 1/20/2019

**Isadora Kratchman** <izzy@etracinc.com> Sun, Jan 20, 2019 at 12:32 PM
To: Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>
Cc: David Neff <dave@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, progress.sketches@noaa.gov, Verena Kellner <verena@etracinc.com>

All,

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 1/20/2019. The associated floating point raster with data coverage through 1/20/2019 has been uploaded to the google drive folder.

Best Regards

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**OPR_H355_KR_18_-January_20.pdf**
400K


**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H355-KR-19 - Weekly Progress Report 1/21/2019 to 1/27/2019

**Isadora Kratchman** <izzy@etracinc.com> Mon, Jan 28, 2019 at 10:38 AM
To: Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>
Cc: David Neff <dave@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, progress.sketches@noaa.gov, Verena Kellner <verena@etracinc.com>

All,

Please find attached the weekly report detailing OPR-H355-KR-18 project completion through 1/27/2019. The associated floating point raster with data coverage through 1/27/2019 has been uploaded to the google drive folder.

Best Regards

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246
www.etracinc.com

**OPR_H355_KR_18_-January_27.pdf**
4703K

Isadora Kratchman <izzy@etracinc.com>

# H13160 DtoN #3 and #4 Submission to NDB

**OCS NDB - NOAA Service Account** <ocs.ndb@noaa.gov> Thu, Jan 31, 2019 at 1:07 PM
To: Castle E Parker <Castle.E.Parker@noaa.gov>
Cc: Briana Hillstrom - NOAA Federal <Briana.Hillstrom@noaa.gov>, Jacklyn James - NOAA Federal <Jacklyn.C.James@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, David Neff <dave@etracinc.com>, Isadora Kratchman <izzy@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>, _NOS OCS PBA Branch <ocs.pba@noaa.gov>, _NOS OCS PBB Branch <ocs.pbb@noaa.gov>, _NOS OCS PBC Branch <ocs.pbc@noaa.gov>, _NOS OCS PBD Branch <ocs.pbd@noaa.gov>, _NOS OCS PBE Branch <ocs.pbe@noaa.gov>, _NOS OCS PBG Branch <ocs.pbg@noaa.gov>, Charles Porter - NOAA Federal <charles.porter@noaa.gov>, Chris Libeau <Chris.Libeau@noaa.gov>, James M Crocker <James.M.Crocker@noaa.gov>, Ken Forster <Ken.Forster@noaa.gov>, Kevin Jett - NOAA Federal <kevin.jett@noaa.gov>, Matt Kroll <Matt.Kroll@noaa.gov>, Michael Gaeta <Michael.Gaeta@noaa.gov>, NSD Coast Pilot <coast.pilot@noaa.gov>, PHB Chief <PHB.Chief@noaa.gov>, Tara Wallace <Tara.Wallace@noaa.gov>

DD-30270 has been registered by the Nautical Data Branch and directed to Products Branch B for processing.

The DtoNs reported are two rocks 3 nautical miles east of Dry Tortugas, FL.

The following charts have been assigned to the record:
11439 kapp 356
11434 kapp 373
11420 kapp 374
4148 kapp 420
11006 kapp 44
11013 kapp 379
411 kapp 45

The following ENCs have been assigned to the record:
US4FL1EQ
US4FL92M
US3FL90M
US2GC09M
US1GC09M

References:
H13160
OPR-H355-KR-18

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/
Contact: ocs.ndb@noaa.gov


---------- Forwarded message ---------
From: **Castle Parker - NOAA Federal** <castle.e.parker@noaa.gov>
Date: Wed, Jan 30, 2019 at 11:53 AM
Subject: H13160 DtoN #3 and #4 Submission to NDB

To: OCS NDB - NOAA Service Account <ocs.ndb@noaa.gov>
Cc: Briana Hillstrom - NOAA Federal <Briana.Hillstrom@noaa.gov>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, David Neff <dave@etracinc.com>, Isadora Kratchman <izzy@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>

Good day,

Please find attached compressed file for H13160 DtoN Report #3 and #4 containing two soundings (43ft and 51ft) representative of coral reefs that are shoaler than the applicable depth range and seaward of the 60ft depth curve. The shoal depths are located approximately 2nm west of Rebecca Shoal. 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*

**H13160_DtoN_3-4.zip**
1785K

Isadora Kratchman <izzy@etracinc.com>

# H13160 DtoN #1, Feature #1, #5, and #7 Submission to NDB

**OCS NDB - NOAA Service Account** <ocs.ndb@noaa.gov> Thu, Jan 31, 2019 at 1:35 PM
To: Castle E Parker <Castle.E.Parker@noaa.gov>
Cc: Briana Hillstrom - NOAA Federal <Briana.Hillstrom@noaa.gov>, Jacklyn James - NOAA Federal <Jacklyn.C.James@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, David Neff <dave@etracinc.com>, Isadora Kratchman <izzy@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>, _NOS OCS PBA Branch <ocs.pba@noaa.gov>, _NOS OCS PBB Branch <ocs.pbb@noaa.gov>, _NOS OCS PBC Branch <ocs.pbc@noaa.gov>, _NOS OCS PBD Branch <ocs.pbd@noaa.gov>, _NOS OCS PBE Branch <ocs.pbe@noaa.gov>, _NOS OCS PBG Branch <ocs.pbg@noaa.gov>, Charles Porter - NOAA Federal <charles.porter@noaa.gov>, Chris Libeau <Chris.Libeau@noaa.gov>, James M Crocker <James.M.Crocker@noaa.gov>, Ken Forster <Ken.Forster@noaa.gov>, Kevin Jett - NOAA Federal <kevin.jett@noaa.gov>, Matt Kroll <Matt.Kroll@noaa.gov>, Michael Gaeta <Michael.Gaeta@noaa.gov>, NSD Coast Pilot <coast.pilot@noaa.gov>, PHB Chief <PHB.Chief@noaa.gov>, Tara Wallace <Tara.Wallace@noaa.gov>

DD-30271 has been registered by the Nautical Data Branch and directed to Products Branch B for processing.

The DtoNs reported are three rocks 3 nautical miles east of Dry Tortugas, FL.

The following charts have been assigned to the record:
11439 kapp 356
11434 kapp 373
11420 kapp 374
4148 kapp 420
11006 kapp 44
11013 kapp 379
411 kapp 45

The following ENCs have been assigned to the record:
US4FL1EQ
US4FL92M
US3FL90M
US2GC09M
US1GC09M

References:
H13160
OPR-H355-KR-18

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/
Contact: ocs.ndb@noaa.gov


---------- Forwarded message ---------
From: **Castle Parker - NOAA Federal** <castle.e.parker@noaa.gov>
Date: Wed, Jan 30, 2019 at 12:40 PM
Subject: H13160 DtoN #1, Feature #1, #5, and #7 Submission to NDB

To: OCS NDB - NOAA Service Account <ocs.ndb@noaa.gov>
Cc: <briana.welton@noaa.gov>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, David Neff <dave@etracinc.com>, Isadora Kratchman <izzy@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>

Good day,

Please find attached compressed file for H13160 DtoN Report #1 including features #1 (55ft), #5 (49ft), and #7 (48ft). The three soundings are representative of coral reefs that are shoaler than the applicable depth range and seaward of the 60ft depth curve. Recommend applying the depth values as soundings rather than a single point rock (UWTROC) to the applicable largest scale chart products. The shoal depths are located approximately 4nm WSW of Rebecca Shoal. 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*

**H13160_DtoN_1_1-5-7.zip**
2859K

**Isadora Kratchman <izzy@etracinc.com>**

# H13160 DtoNs 01 - 04

**Castle Parker - NOAA Federal** <castle.e.parker@noaa.gov> Fri, Feb 1, 2019 at 5:30 AM
To: Isadora Kratchman <izzy@etracinc.com>
Cc: David Neff <dave@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>

Good day Izzy,

You interpretation is correct; any natural feature is not to be included in the FFF unless it was submitted as a DtoN to NDB or it is a named feature (rk). If you did include the feature in the FFF place field unit comments in the remarks (remrks) attribute. The Onote is reserved for the Hydro Branch.

I'm still evaluating H13163 potential DtoNs and should send back the recommendations today.

Regards,

gp

*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:** Isadora Kratchman <izzy@etracinc.com>
**Sent:** Thursday, January 31, 2019 6:44 PM
**To:** Castle Parker - NOAA Federal <castle.e.parker@noaa.gov>
**Cc:** David Neff <dave@etracinc.com>; Lisa Diamond <lisa@etracinc.com>; Verena Kellner <verena@etracinc.com>; Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>; Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
**Subject:** Re: H13160 DtoNs 01 - 04

Gene,

Since the feature is natural and not a DtoN, does it need to be added to the survey FFF if it is appropriately represented in the surface? We have not included any new natural features in our FFF if they are not DtoNs, based on the instructions in HSSD 7.3.2. New Features, bullet point 2.

If we were to include this feature, should we make a note in the remarks or o-notes about why this natural feature was included?

Best regards,

Izzy

On Wed, Jan 30, 2019 at 12:42 PM Castle Parker - NOAA Federal <castle.e.parker@noaa.gov> wrote:

> FYI, H13160 DtoN #2 was not submitted to NDB/MCD based upon water depth and navigation AIS tracks. The depth value was not considered as a hazard to surface navigation and in consideration of the current chart notation. Ensure that the feature is added to the survey FFF and it will then get forwarded to MCD with the final SAR products.
>
> Thanks for your effort and charting consideration.
>
> Regards,
>
> gp
>
> *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:** ahb.dton@noaa.gov <ahb.dton@noaa.gov> **On Behalf Of** Isadora Kratchman
> **Sent:** Thursday, January 17, 2019 6:35 PM
> **To:** Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>; Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>; ahb.dton@noaa.gov
> **Cc:** David Neff <dave@etracinc.com>; Lisa Diamond <lisa@etracinc.com>; Verena Kellner <verena@etracinc.com>
> **Subject:** H13160 DtoNs 01 - 04
>
> All,
>
> Please find attached the standard DtoN packages detailing H13160 DtoN 01_1-7, DtoN 02, DtoN 03, and DtoN 04.
>
> H13160_1m.tif
>
> H13160 DtoN 01_1-7 is a cluster of rocks
>
> H13160 DtoN 02 is a sounding on an uncharted shoal

> H13160 DtoN 03 is a rock
>
> H13160 DtoN 04 is a rock
>
> Also attached is a 1m tiff of the area to mimic our delivery guidance of previous clusters.
>
> Best Regards,
>
> --
>
> **Isadora Kratchman**
>
> Hydrographic Surveyor
>
> Mobile: (301) 706-9246
>
> www.etracinc.com

--

**Isadora Kratchman**

Hydrographic Surveyor

Mobile: (301) 706-9246

www.etracinc.com

**Isadora Kratchman <izzy@etracinc.com>**

# OPR-H358-KR-17 Project VDatum Separation Model Missing *.csar0 file

**Isadora Kratchman** <izzy@etracinc.com> Fri, Feb 8, 2019 at 8:41 AM
To: Castle Parker - NOAA Federal <castle.e.parker@noaa.gov>
Cc: David Neff <dave@etracinc.com>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, AHB Chief - NOAA Service Account <ahb.chief@noaa.gov>, Sophie Alpert - NOAA Affiliate <sophie.alpert@noaa.gov>

Good Morning Gene,

Sorry about that. Attached is the NOAA_TO7_ITRF_to_MLLW_SEP.csar0 file.

Best,
Izzy

On Fri, Feb 8, 2019 at 6:14 AM Castle Parker - NOAA Federal <castle.e.parker@noaa.gov> wrote:

> Good day,
>
> During the SAR for H13080 AHB is required to generate a final grid based upon Ellipsoid datum. We found that the VDatum separation model is missing the NOAA_TO7_ITRF_to_MLLW_SEP.csar0 file. AHB did receive the NOAA_TO7_ITRF_to_MLLW_SEP.csar file, but need the *.csar0 to actual read the separation model.
>
> It is AHB's request submission of the NOAA_TO7_ITRF_to_MLLW_SEP.csar0 file. Submission can be via email depending on file size. If the file size is large, posting to Google drive like with grid *.tiff images will work as well.
>
> Thanks for your support and response,
>
> Gene
>
> PS: Since the file used for datum correction is the same for H13079 and H13081, AHB will copy the submitted file to the other two surveys.
>
> *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*

--
**Isadora Kratchman**
Hydrographic Surveyor
Mobile: (301) 706-9246

www.etracinc.com

**NOAA_TO7_ITRF_to_MLLW_SEP.csar0**
5661K

Isadora Kratchman <izzy@etracinc.com>

# H13160 DtoN #1, Feature #1, #5, and #7 Submission to NDB

**OCS NDB - NOAA Service Account** <ocs.ndb@noaa.gov> Thu, Jan 31, 2019 at 1:35 PM
To: Castle E Parker <Castle.E.Parker@noaa.gov>
Cc: Briana Hillstrom - NOAA Federal <Briana.Hillstrom@noaa.gov>, Jacklyn James - NOAA Federal <Jacklyn.C.James@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, David Neff <dave@etracinc.com>, Isadora Kratchman <izzy@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>, _NOS OCS PBA Branch <ocs.pba@noaa.gov>, _NOS OCS PBB Branch <ocs.pbb@noaa.gov>, _NOS OCS PBC Branch <ocs.pbc@noaa.gov>, _NOS OCS PBD Branch <ocs.pbd@noaa.gov>, _NOS OCS PBE Branch <ocs.pbe@noaa.gov>, _NOS OCS PBG Branch <ocs.pbg@noaa.gov>, Charles Porter - NOAA Federal <charles.porter@noaa.gov>, Chris Libeau <Chris.Libeau@noaa.gov>, James M Crocker <James.M.Crocker@noaa.gov>, Ken Forster <Ken.Forster@noaa.gov>, Kevin Jett - NOAA Federal <kevin.jett@noaa.gov>, Matt Kroll <Matt.Kroll@noaa.gov>, Michael Gaeta <Michael.Gaeta@noaa.gov>, NSD Coast Pilot <coast.pilot@noaa.gov>, PHB Chief <PHB.Chief@noaa.gov>, Tara Wallace <Tara.Wallace@noaa.gov>

DD-30271 has been registered by the Nautical Data Branch and directed to Products Branch B for processing.

The DtoNs reported are three rocks 3 nautical miles east of Dry Tortugas, FL.

The following charts have been assigned to the record:
11439 kapp 356
11434 kapp 373
11420 kapp 374
4148 kapp 420
11006 kapp 44
11013 kapp 379
411 kapp 45

The following ENCs have been assigned to the record:
US4FL1EQ
US4FL92M
US3FL90M
US2GC09M
US1GC09M

References:
H13160
OPR-H355-KR-18

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/
Contact: ocs.ndb@noaa.gov


---------- Forwarded message ---------
From: **Castle Parker - NOAA Federal** <castle.e.parker@noaa.gov>
Date: Wed, Jan 30, 2019 at 12:40 PM
Subject: H13160 DtoN #1, Feature #1, #5, and #7 Submission to NDB

To: OCS NDB - NOAA Service Account <ocs.ndb@noaa.gov>
Cc: <briana.welton@noaa.gov>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, David Neff <dave@etracinc.com>, Isadora Kratchman <izzy@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>

Good day,

Please find attached compressed file for H13160 DtoN Report #1 including features #1 (55ft), #5 (49ft), and #7 (48ft). The three soundings are representative of coral reefs that are shoaler than the applicable depth range and seaward of the 60ft depth curve. Recommend applying the depth values as soundings rather than a single point rock (UWTROC) to the applicable largest scale chart products. The shoal depths are located approximately 4nm WSW of Rebecca Shoal. 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*

**H13160_DtoN_1_1-5-7.zip**
2859K

Isadora Kratchman <izzy@etracinc.com>

# H13160 DtoN #3 and #4 Submission to NDB

**OCS NDB - NOAA Service Account** <ocs.ndb@noaa.gov> Thu, Jan 31, 2019 at 1:07 PM
To: Castle E Parker <Castle.E.Parker@noaa.gov>
Cc: Briana Hillstrom - NOAA Federal <Briana.Hillstrom@noaa.gov>, Jacklyn James - NOAA Federal <Jacklyn.C.James@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, David Neff <dave@etracinc.com>, Isadora Kratchman <izzy@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>, _NOS OCS PBA Branch <ocs.pba@noaa.gov>, _NOS OCS PBB Branch <ocs.pbb@noaa.gov>, _NOS OCS PBC Branch <ocs.pbc@noaa.gov>, _NOS OCS PBD Branch <ocs.pbd@noaa.gov>, _NOS OCS PBE Branch <ocs.pbe@noaa.gov>, _NOS OCS PBG Branch <ocs.pbg@noaa.gov>, Charles Porter - NOAA Federal <charles.porter@noaa.gov>, Chris Libeau <Chris.Libeau@noaa.gov>, James M Crocker <James.M.Crocker@noaa.gov>, Ken Forster <Ken.Forster@noaa.gov>, Kevin Jett - NOAA Federal <kevin.jett@noaa.gov>, Matt Kroll <Matt.Kroll@noaa.gov>, Michael Gaeta <Michael.Gaeta@noaa.gov>, NSD Coast Pilot <coast.pilot@noaa.gov>, PHB Chief <PHB.Chief@noaa.gov>, Tara Wallace <Tara.Wallace@noaa.gov>

DD-30270 has been registered by the Nautical Data Branch and directed to Products Branch B for processing.

The DtoNs reported are two rocks 3 nautical miles east of Dry Tortugas, FL.

The following charts have been assigned to the record:
11439 kapp 356
11434 kapp 373
11420 kapp 374
4148 kapp 420
11006 kapp 44
11013 kapp 379
411 kapp 45

The following ENCs have been assigned to the record:
US4FL1EQ
US4FL92M
US3FL90M
US2GC09M
US1GC09M

References:
H13160
OPR-H355-KR-18

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/
Contact: ocs.ndb@noaa.gov


---------- Forwarded message ---------
From: **Castle Parker - NOAA Federal** <castle.e.parker@noaa.gov>
Date: Wed, Jan 30, 2019 at 11:53 AM
Subject: H13160 DtoN #3 and #4 Submission to NDB

To: OCS NDB - NOAA Service Account <ocs.ndb@noaa.gov>
Cc: Briana Hillstrom - NOAA Federal <Briana.Hillstrom@noaa.gov>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, David Neff <dave@etracinc.com>, Isadora Kratchman <izzy@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>

Good day,

Please find attached compressed file for H13160 DtoN Report #3 and #4 containing two soundings (43ft and 51ft) representative of coral reefs that are shoaler than the applicable depth range and seaward of the 60ft depth curve. The shoal depths are located approximately 2nm west of Rebecca Shoal. 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*

**H13160_DtoN_3-4.zip**
1785K

**Isadora Kratchman <izzy@etracinc.com>**

# H13160 DtoNs 01 - 04

**Castle Parker - NOAA Federal** <castle.e.parker@noaa.gov> Fri, Feb 1, 2019 at 5:30 AM
To: Isadora Kratchman <izzy@etracinc.com>
Cc: David Neff <dave@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>

Good day Izzy,

You interpretation is correct; any natural feature is not to be included in the FFF unless it was submitted as a DtoN to NDB or it is a named feature (rk). If you did include the feature in the FFF place field unit comments in the remarks (remrks) attribute. The Onote is reserved for the Hydro Branch.

I'm still evaluating H13163 potential DtoNs and should send back the recommendations today.

Regards,

gp

*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:** Isadora Kratchman <izzy@etracinc.com>
**Sent:** Thursday, January 31, 2019 6:44 PM
**To:** Castle Parker - NOAA Federal <castle.e.parker@noaa.gov>
**Cc:** David Neff <dave@etracinc.com>; Lisa Diamond <lisa@etracinc.com>; Verena Kellner <verena@etracinc.com>; Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>; Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>
**Subject:** Re: H13160 DtoNs 01 - 04

Gene,

Since the feature is natural and not a DtoN, does it need to be added to the survey FFF if it is appropriately represented in the surface? We have not included any new natural features in our FFF if they are not DtoNs, based on the instructions in HSSD 7.3.2. New Features, bullet point 2.

If we were to include this feature, should we make a note in the remarks or o-notes about why this natural feature was included?

Best regards,

Izzy

On Wed, Jan 30, 2019 at 12:42 PM Castle Parker - NOAA Federal <castle.e.parker@noaa.gov> wrote:

> FYI, H13160 DtoN #2 was not submitted to NDB/MCD based upon water depth and navigation AIS tracks. The depth value was not considered as a hazard to surface navigation and in consideration of the current chart notation. Ensure that the feature is added to the survey FFF and it will then get forwarded to MCD with the final SAR products.
>
> Thanks for your effort and charting consideration.
>
> Regards,
>
> gp
>
> *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:** ahb.dton@noaa.gov <ahb.dton@noaa.gov> **On Behalf Of** Isadora Kratchman
> **Sent:** Thursday, January 17, 2019 6:35 PM
> **To:** Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>; Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>; ahb.dton@noaa.gov
> **Cc:** David Neff <dave@etracinc.com>; Lisa Diamond <lisa@etracinc.com>; Verena Kellner <verena@etracinc.com>
> **Subject:** H13160 DtoNs 01 - 04
>
> All,
>
> Please find attached the standard DtoN packages detailing H13160 DtoN 01_1-7, DtoN 02, DtoN 03, and DtoN 04.
>
> H13160_1m.tif
>
> H13160 DtoN 01_1-7 is a cluster of rocks
>
> H13160 DtoN 02 is a sounding on an uncharted shoal

> H13160 DtoN 03 is a rock
>
> H13160 DtoN 04 is a rock
>
> Also attached is a 1m tiff of the area to mimic our delivery guidance of previous clusters.
>
> Best Regards,
>
> --
>
> **Isadora Kratchman**
>
> Hydrographic Surveyor
>
> Mobile: (301) 706-9246
>
> www.etracinc.com

--

**Isadora Kratchman**

Hydrographic Surveyor

Mobile: (301) 706-9246

www.etracinc.com

Isadora Kratchman <izzy@etracinc.com>

# H13160 DtoN #1, Feature #1, #5, and #7 Submission to NDB

**OCS NDB - NOAA Service Account** <ocs.ndb@noaa.gov> Thu, Jan 31, 2019 at 1:35 PM
To: Castle E Parker <Castle.E.Parker@noaa.gov>
Cc: Briana Hillstrom - NOAA Federal <Briana.Hillstrom@noaa.gov>, Jacklyn James - NOAA Federal <Jacklyn.C.James@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, David Neff <dave@etracinc.com>, Isadora Kratchman <izzy@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>, _NOS OCS PBA Branch <ocs.pba@noaa.gov>, _NOS OCS PBB Branch <ocs.pbb@noaa.gov>, _NOS OCS PBC Branch <ocs.pbc@noaa.gov>, _NOS OCS PBD Branch <ocs.pbd@noaa.gov>, _NOS OCS PBE Branch <ocs.pbe@noaa.gov>, _NOS OCS PBG Branch <ocs.pbg@noaa.gov>, Charles Porter - NOAA Federal <charles.porter@noaa.gov>, Chris Libeau <Chris.Libeau@noaa.gov>, James M Crocker <James.M.Crocker@noaa.gov>, Ken Forster <Ken.Forster@noaa.gov>, Kevin Jett - NOAA Federal <kevin.jett@noaa.gov>, Matt Kroll <Matt.Kroll@noaa.gov>, Michael Gaeta <Michael.Gaeta@noaa.gov>, NSD Coast Pilot <coast.pilot@noaa.gov>, PHB Chief <PHB.Chief@noaa.gov>, Tara Wallace <Tara.Wallace@noaa.gov>

DD-30271 has been registered by the Nautical Data Branch and directed to Products Branch B for processing.

The DtoNs reported are three rocks 3 nautical miles east of Dry Tortugas, FL.

The following charts have been assigned to the record:
11439 kapp 356
11434 kapp 373
11420 kapp 374
4148 kapp 420
11006 kapp 44
11013 kapp 379
411 kapp 45

The following ENCs have been assigned to the record:
US4FL1EQ
US4FL92M
US3FL90M
US2GC09M
US1GC09M

References:
H13160
OPR-H355-KR-18

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/
Contact: ocs.ndb@noaa.gov


[Quoted text hidden]

**H13160_DtoN_1_1-5-7.zip**
2859K

Isadora Kratchman <izzy@etracinc.com>

# H13160 DtoN #3 and #4 Submission to NDB

**OCS NDB - NOAA Service Account** <ocs.ndb@noaa.gov> Thu, Jan 31, 2019 at 1:07 PM
To: Castle E Parker <Castle.E.Parker@noaa.gov>
Cc: Briana Hillstrom - NOAA Federal <Briana.Hillstrom@noaa.gov>, Jacklyn James - NOAA Federal <Jacklyn.C.James@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, David Neff <dave@etracinc.com>, Isadora Kratchman <izzy@etracinc.com>, Lisa Diamond <lisa@etracinc.com>, Verena Kellner <verena@etracinc.com>, _NOS OCS PBA Branch <ocs.pba@noaa.gov>, _NOS OCS PBB Branch <ocs.pbb@noaa.gov>, _NOS OCS PBC Branch <ocs.pbc@noaa.gov>, _NOS OCS PBD Branch <ocs.pbd@noaa.gov>, _NOS OCS PBE Branch <ocs.pbe@noaa.gov>, _NOS OCS PBG Branch <ocs.pbg@noaa.gov>, Charles Porter - NOAA Federal <charles.porter@noaa.gov>, Chris Libeau <Chris.Libeau@noaa.gov>, James M Crocker <James.M.Crocker@noaa.gov>, Ken Forster <Ken.Forster@noaa.gov>, Kevin Jett - NOAA Federal <kevin.jett@noaa.gov>, Matt Kroll <Matt.Kroll@noaa.gov>, Michael Gaeta <Michael.Gaeta@noaa.gov>, NSD Coast Pilot <coast.pilot@noaa.gov>, PHB Chief <PHB.Chief@noaa.gov>, Tara Wallace <Tara.Wallace@noaa.gov>

DD-30270 has been registered by the Nautical Data Branch and directed to Products Branch B for processing.

The DtoNs reported are two rocks 3 nautical miles east of Dry Tortugas, FL.

The following charts have been assigned to the record:
11439 kapp 356
11434 kapp 373
11420 kapp 374
4148 kapp 420
11006 kapp 44
11013 kapp 379
411 kapp 45

The following ENCs have been assigned to the record:
US4FL1EQ
US4FL92M
US3FL90M
US2GC09M
US1GC09M

References:
H13160
OPR-H355-KR-18

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/
Contact: ocs.ndb@noaa.gov


[Quoted text hidden]

**H13160_DtoN_3-4.zip**
1785K

APPROVAL PAGE

H13160

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
- GeoPDF of survey products
- Collection of Backscatter mosaics

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

Approved: Meghan McGovern Date: 2020.07.30 13:05:11 -04'00'

**Commander Meghan McGovern, NOAA**
Chief, Atlantic Hydrographic Branch