

**F00763**

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

**DESCRIPTIVE REPORT**

Type of Survey: Navigable Area

Registry Number: F00763

**LOCALITY**

State(s): Alaska

General Locality: Anchorage

Sub-locality: Vicinity of Anchorage

**2018**

CHIEF OF PARTY  
David Neff, ACSM C.H.

LIBRARY & ARCHIVES

Date:

**HYDROGRAPHIC TITLE SHEET**

**F00763**

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): **Alaska**

General Locality: **Anchorage**

Sub-Locality: **Vicinity of Anchorage**

Scale: **20000**

Dates of Survey: **12/08/2018 to 12/22/2018**

Instructions Dated: **12/11/2018**

Project Number: **S-P958-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: **Pacific Hydrographic Branch**

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

Remarks:

*The purpose of this survey is to provide contemporary surveys to update National Ocean Service (NOS) nautical charts. All separates are filed with the hydrographic data. Any revisions to the Descriptive Report (DR) generated during office processing are shown in bold red italic text. The processing branch maintains the DR as a field unit product, therefore, all information and recommendations within the body of the DR are considered preliminary unless otherwise noted. The final disposition of surveyed features is represented in the OCS nautical chart update products. All pertinent records for this survey, including the DR, are archived at the National Centers for Environmental Information (NCEI) and can be retrieved via <http://www.ncei.noaa.gov/>.*

# Table of Contents

<u>A. Area Surveyed</u> .....	<u>1</u>
<u>A.1 Survey Limits</u> .....	<u>1</u>
<u>A.2 Survey Purpose</u> .....	<u>1</u>
<u>A.3 Survey Quality</u> .....	<u>2</u>
<u>A.4 Survey Coverage</u> .....	<u>2</u>
<u>A.5 Survey Statistics</u> .....	<u>6</u>
<u>B. Data Acquisition and Processing</u> .....	<u>8</u>
<u>B.1 Equipment and Vessels</u> .....	<u>8</u>
<u>B.1.1 Vessels</u> .....	<u>8</u>
<u>B.1.2 Equipment</u> .....	<u>9</u>
<u>B.2 Quality Control</u> .....	<u>9</u>
<u>B.2.1 Crosslines</u> .....	<u>9</u>
<u>B.2.2 Uncertainty</u> .....	<u>12</u>
<u>B.2.3 Junctions</u> .....	<u>19</u>
<u>B.2.4 Sonar QC Checks</u> .....	<u>19</u>
<u>B.2.5 Equipment Effectiveness</u> .....	<u>20</u>
<u>B.2.6 Factors Affecting Soundings</u> .....	<u>20</u>
<u>B.2.7 Sound Speed Methods</u> .....	<u>20</u>
<u>B.2.8 Coverage Equipment and Methods</u> .....	<u>20</u>
<u>B.2.9 Data Density Evaluation</u> .....	<u>20</u>
<u>B.3 Echo Sounding Corrections</u> .....	<u>24</u>
<u>B.3.1 Corrections to Echo Soundings</u> .....	<u>24</u>
<u>B.3.2 Calibrations</u> .....	<u>24</u>
<u>B.4 Backscatter</u> .....	<u>24</u>
<u>B.5 Data Processing</u> .....	<u>27</u>
<u>B.5.1 Software Updates</u> .....	<u>27</u>
<u>B.5.2 Surfaces</u> .....	<u>28</u>
<u>C. Vertical and Horizontal Control</u> .....	<u>34</u>
<u>C.1 Vertical Control</u> .....	<u>34</u>
<u>C.2 Horizontal Control</u> .....	<u>35</u>
<u>D. Results and Recommendations</u> .....	<u>35</u>
<u>D.1 Chart Comparison</u> .....	<u>35</u>
<u>D.1.1 Electronic Navigational Charts</u> .....	<u>35</u>
<u>D.1.2 AWOIS Items</u> .....	<u>42</u>
<u>D.1.3 Maritime Boundary Points</u> .....	<u>42</u>
<u>D.1.4 Charted Features</u> .....	<u>42</u>
<u>D.1.5 Uncharted Features</u> .....	<u>43</u>
<u>D.1.6 Dangers to Navigation</u> .....	<u>43</u>
<u>D.1.7 Shoal and Hazardous Features</u> .....	<u>43</u>
<u>D.1.8 Channels</u> .....	<u>43</u>
<u>D.1.9 Bottom Samples</u> .....	<u>43</u>
<u>D.2 Additional Results</u> .....	<u>44</u>
<u>D.2.1 Shoreline</u> .....	<u>44</u>

<a href="#">D.2.2 Prior Surveys.....</a>	<a href="#">44</a>
<a href="#">D.2.3 Aids to Navigation.....</a>	<a href="#">45</a>
<a href="#">D.2.4 Overhead Features.....</a>	<a href="#">45</a>
<a href="#">D.2.5 Submarine Features.....</a>	<a href="#">45</a>
<a href="#">D.2.6 Ferry Routes and Terminals.....</a>	<a href="#">46</a>
<a href="#">D.2.7 Platforms.....</a>	<a href="#">46</a>
<a href="#">D.2.8 Significant Features.....</a>	<a href="#">46</a>
<a href="#">D.2.9 Construction and Dredging.....</a>	<a href="#">46</a>
<a href="#">D.2.10 New Survey Recommendation.....</a>	<a href="#">46</a>
<a href="#">D.2.11 Inset Recommendation.....</a>	<a href="#">46</a>
<a href="#">E. Approval Sheet.....</a>	<a href="#">47</a>

## List of Tables

<a href="#">Table 1: Survey Limits.....</a>	<a href="#">1</a>
<a href="#">Table 2: Hydrographic Survey Statistics.....</a>	<a href="#">7</a>
<a href="#">Table 3: Dates of Hydrography.....</a>	<a href="#">8</a>
<a href="#">Table 4: Vessels Used.....</a>	<a href="#">8</a>
<a href="#">Table 5: Major Systems Used.....</a>	<a href="#">9</a>
<a href="#">Table 6: Survey Specific Sound Speed TPU Values.....</a>	<a href="#">12</a>
<a href="#">Table 7: Submitted Surfaces.....</a>	<a href="#">28</a>
<a href="#">Table 8: Largest Scale ENC's.....</a>	<a href="#">35</a>
<a href="#">Table 9: DTON Reports.....</a>	<a href="#">43</a>

## List of Figures

<a href="#">Figure 1: Survey Coverage of F00763 (scale in meters).....</a>	<a href="#">2</a>
<a href="#">Figure 2: Survey Coverage of Area A - Complete Coverage (scale in meters).....</a>	<a href="#">3</a>
<a href="#">Figure 3: Survey Coverage of Area B - Object Detection (scale in meters).....</a>	<a href="#">4</a>
<a href="#">Figure 4: Survey Coverage of Area C - Complete Coverage (scale in meters).....</a>	<a href="#">5</a>
<a href="#">Figure 5: Survey Coverage Gap within Area B - Object Detection (scale in meters).....</a>	<a href="#">6</a>
<a href="#">Figure 6: F00763 Crossline Comparison - Area A (1m).....</a>	<a href="#">10</a>
<a href="#">Figure 7: F00763 Crossline Comparison - Area B (1m).....</a>	<a href="#">10</a>
<a href="#">Figure 8: F00763 Crossline Comparison - Area C (1m).....</a>	<a href="#">11</a>
<a href="#">Figure 9: Small Sandwave Movement between Mainscheme and Crosslines.....</a>	<a href="#">11</a>
<a href="#">Figure 10: Large Sandwave Movement between Mainscheme and Crosslines.....</a>	<a href="#">11</a>
<a href="#">Figure 11: Areas with No Sandwave show Excellent Agreement between Mainscheme and Crosslines.....</a>	<a href="#">12</a>
<a href="#">Figure 12: Cross section of sandwaves and no sandwaves between Mainscheme and Crosslines.....</a>	<a href="#">12</a>
<a href="#">Figure 13: Area A of F00763 Finalized 1m Complete Coverage MBES TPU Statistics (NOAA QC Tools).....</a>	<a href="#">14</a>
<a href="#">Figure 14: Area A of F00763 Finalized 2m Complete Coverage MBES TPU Statistics (NOAA QC Tools).....</a>	<a href="#">15</a>
<a href="#">Figure 15: Area B of F00763 Finalized 50cm Object Detection MBES TPU Statistics (NOAA QC Tools).....</a>	<a href="#">16</a>

<a href="#">Figure 16: Area B of F00763 Finalized 1m Object Detection MBES TPU Statistics (NOAA QC Tools).....</a>	<a href="#">17</a>
<a href="#">Figure 17: Area C of F00763 Finalized 1m Complete Coverage MBES TPU Statistics (NOAA QC Tools).....</a>	<a href="#">18</a>
<a href="#">Figure 18: Area C of F00763 Finalized 2m Complete Coverage MBES TPU Statistics (NOAA QC Tools).....</a>	<a href="#">19</a>
<a href="#">Figure 19: Area A of F00763 - Finalized 1m Complete Coverage MBES Density Distribution.....</a>	<a href="#">21</a>
<a href="#">Figure 20: Area A of F00763 - Finalized 2m Complete Coverage MBES Density Distribution.....</a>	<a href="#">22</a>
<a href="#">Figure 21: Area B of F00763 - Finalized 50cm Object Detection MBES Density Distribution.....</a>	<a href="#">22</a>
<a href="#">Figure 22: Area B of F00763 - Finalized 1m Object Detection MBES Density Distribution.....</a>	<a href="#">23</a>
<a href="#">Figure 23: Area C of F00763 - Finalized 1m Complete Coverage MBES Density Distribution.....</a>	<a href="#">23</a>
<a href="#">Figure 24: Area C of F00763 - Finalized 2m Complete Coverage MBES Density Distribution.....</a>	<a href="#">24</a>
<a href="#">Figure 25: Raw backscatter from Area A of F00763.....</a>	<a href="#">25</a>
<a href="#">Figure 26: Raw backscatter from Area B of F00763.....</a>	<a href="#">26</a>
<a href="#">Figure 27: Raw backscatter from Area C of F00763.....</a>	<a href="#">27</a>
<a href="#">Figure 28: Area A of F00763 Delivered CUBE weighted Dynamic Surface Coverage - 1m (scale in meters).....</a>	<a href="#">29</a>
<a href="#">Figure 29: Area A of F00763 Delivered CUBE weighted Dynamic Surface Coverage - 2m (scale in meters).....</a>	<a href="#">30</a>
<a href="#">Figure 30: Area B of F00763 Delivered CUBE weighted Dynamic Surface Coverage - 50cm (scale in meters).....</a>	<a href="#">31</a>
<a href="#">Figure 31: Area B of F00763 Delivered CUBE weighted Dynamic Surface Coverage - 1m (scale in meters).....</a>	<a href="#">32</a>
<a href="#">Figure 32: Area C of F00763 Delivered CUBE weighted Dynamic Surface Coverage - 1m (scale in meters).....</a>	<a href="#">33</a>
<a href="#">Figure 33: Area C of F00763 Delivered CUBE weighted Dynamic Surface Coverage - 2m (scale in meters).....</a>	<a href="#">34</a>
<a href="#">Figure 34: Area A of F00763 Contour Comparison (US5AK16M).....</a>	<a href="#">37</a>
<a href="#">Figure 35: Area B of F00763 Contour Comparison (US5AK16M).....</a>	<a href="#">38</a>
<a href="#">Figure 36: Area C of F00763 Contour Comparison (US5AK16M).....</a>	<a href="#">39</a>
<a href="#">Figure 37: Area A of F00763 Sounding Comparison (US5AK16M).....</a>	<a href="#">40</a>
<a href="#">Figure 38: Area B of F00763 Sounding Comparison (US5AK16M).....</a>	<a href="#">41</a>
<a href="#">Figure 39: Area C of F00763 Sounding Comparison (US5AK16M).....</a>	<a href="#">42</a>
<a href="#">Figure 40: October 2018 versus December 2018.....</a>	<a href="#">44</a>
<a href="#">Figure 41: Cross Section 1 over hard material.....</a>	<a href="#">45</a>
<a href="#">Figure 42: Cross section 2 over soft material.....</a>	<a href="#">45</a>

## Descriptive Report to Accompany Survey F00763

Project: S-P958-KR-18

Locality: Anchorage

Sublocality: Vicinity of Anchorage

Scale: 1:20000

December 2018 - December 2018

**eTrac Inc.**

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

### A. Area Surveyed

eTrac Inc. conducted hydrographic survey operations near the Port of Alaska and the vicinity of Anchorage, AK. F00763 covers approximately 4 square nautical miles of survey area. 191 linear nautical miles were acquired during the survey.

Survey was conducted within these limits between December 8, 2018 (DN342) and December 22, 2018 (DN356).

#### A.1 Survey Limits

Data were acquired within the following survey limits:

Northwest Limit	Southeast Limit
61° 15' 21.2" N 150° 13' 56.28" W	61° 9' 40.93" N 149° 55' 56.28" W

*Table 1: Survey Limits*

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 F00763 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. Area A and area C of F00763 were surveyed to Complete Coverage with backscatter standards set forth in the HSSD 2018. Area B of F00763 was surveyed to Object Detection Coverage with backscatter standards set forth in the HSSD 2018.

Note: There is a small coverage gap at the southeast corner of area B due to a sonar blowout. The coverage gap was not able to be retrieved due to ice impeding survey operations in the Cook Inlet.

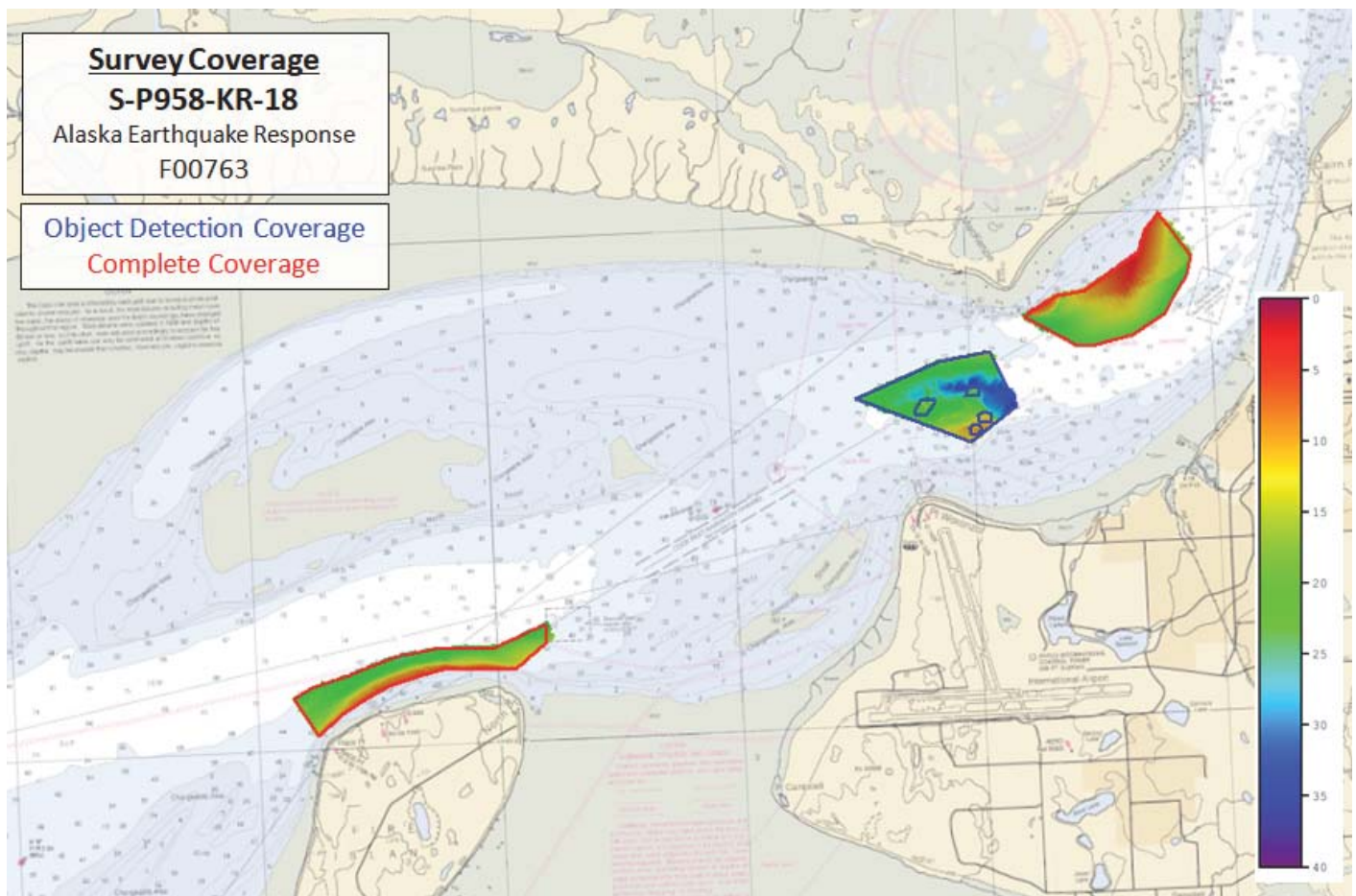


Figure 1: Survey Coverage of F00763 (scale in meters)



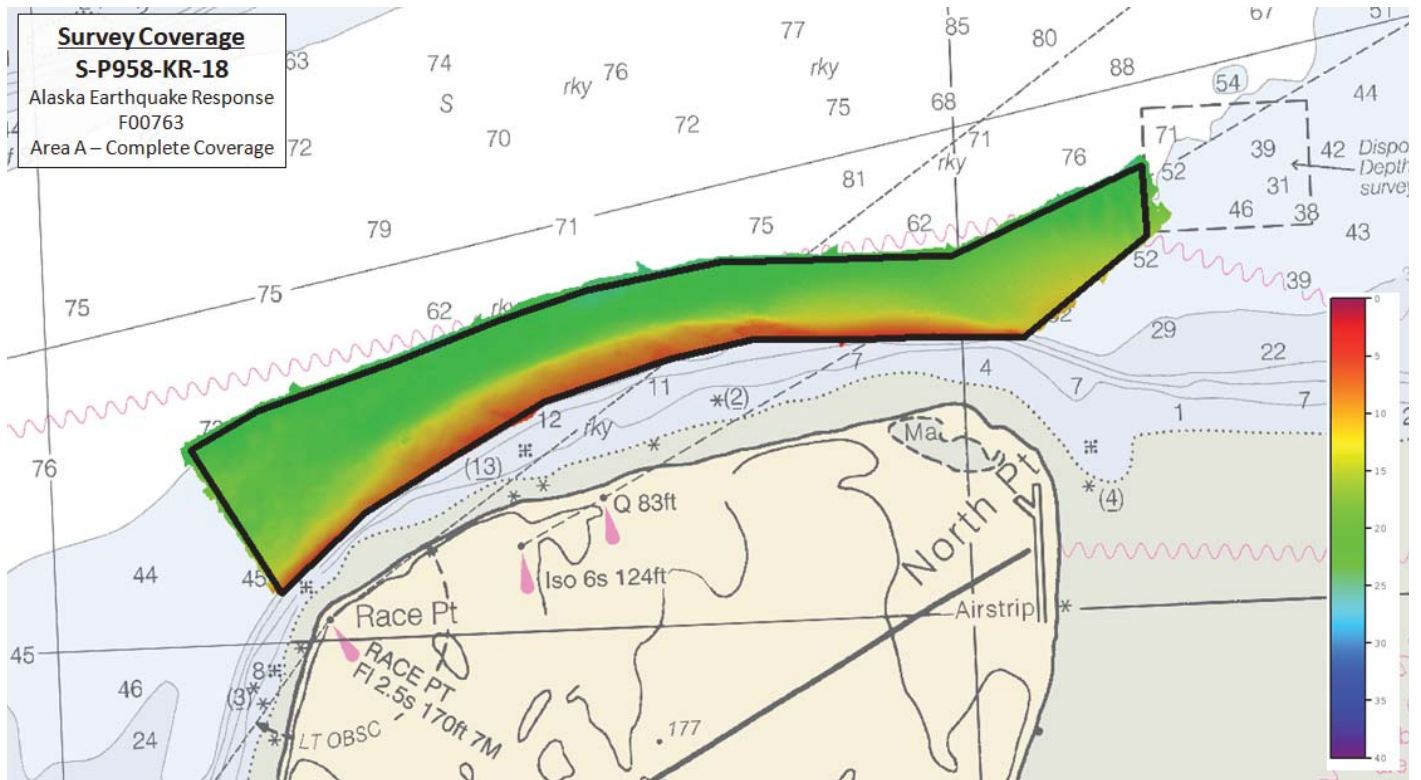


Figure 2: Survey Coverage of Area A - Complete Coverage (scale in meters)



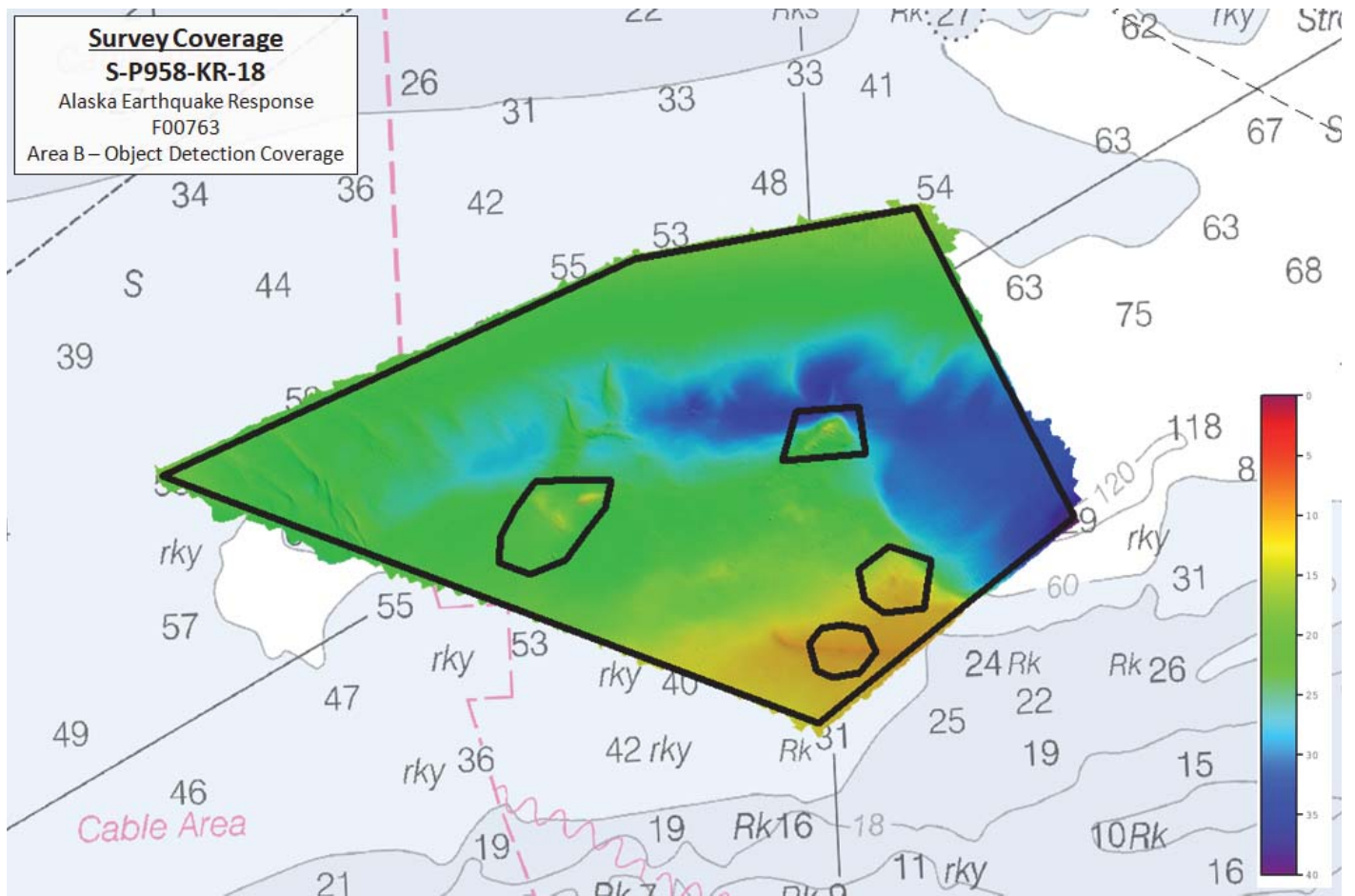


Figure 3: Survey Coverage of Area B - Object Detection (scale in meters)

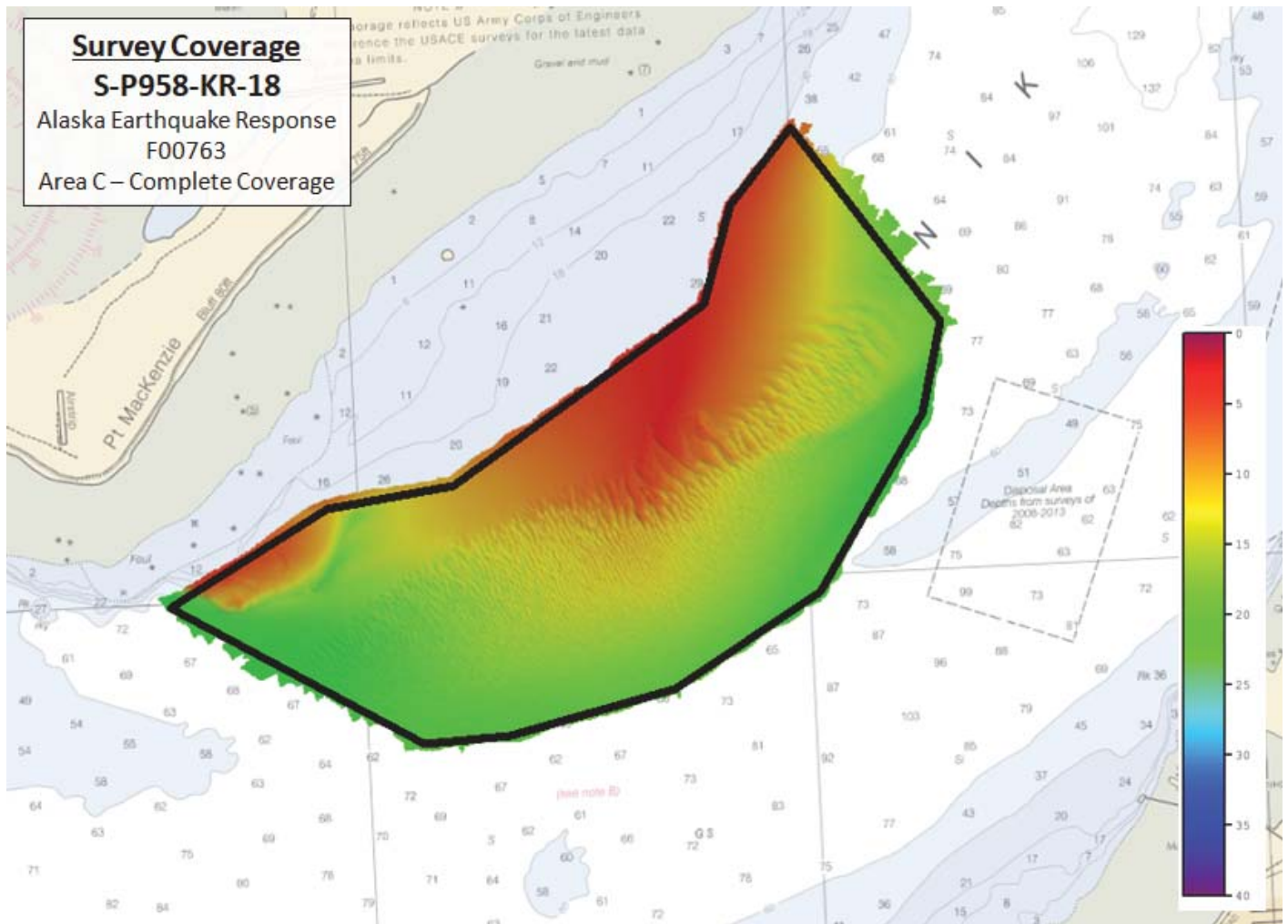


Figure 4: Survey Coverage of Area C - Complete Coverage (scale in meters)

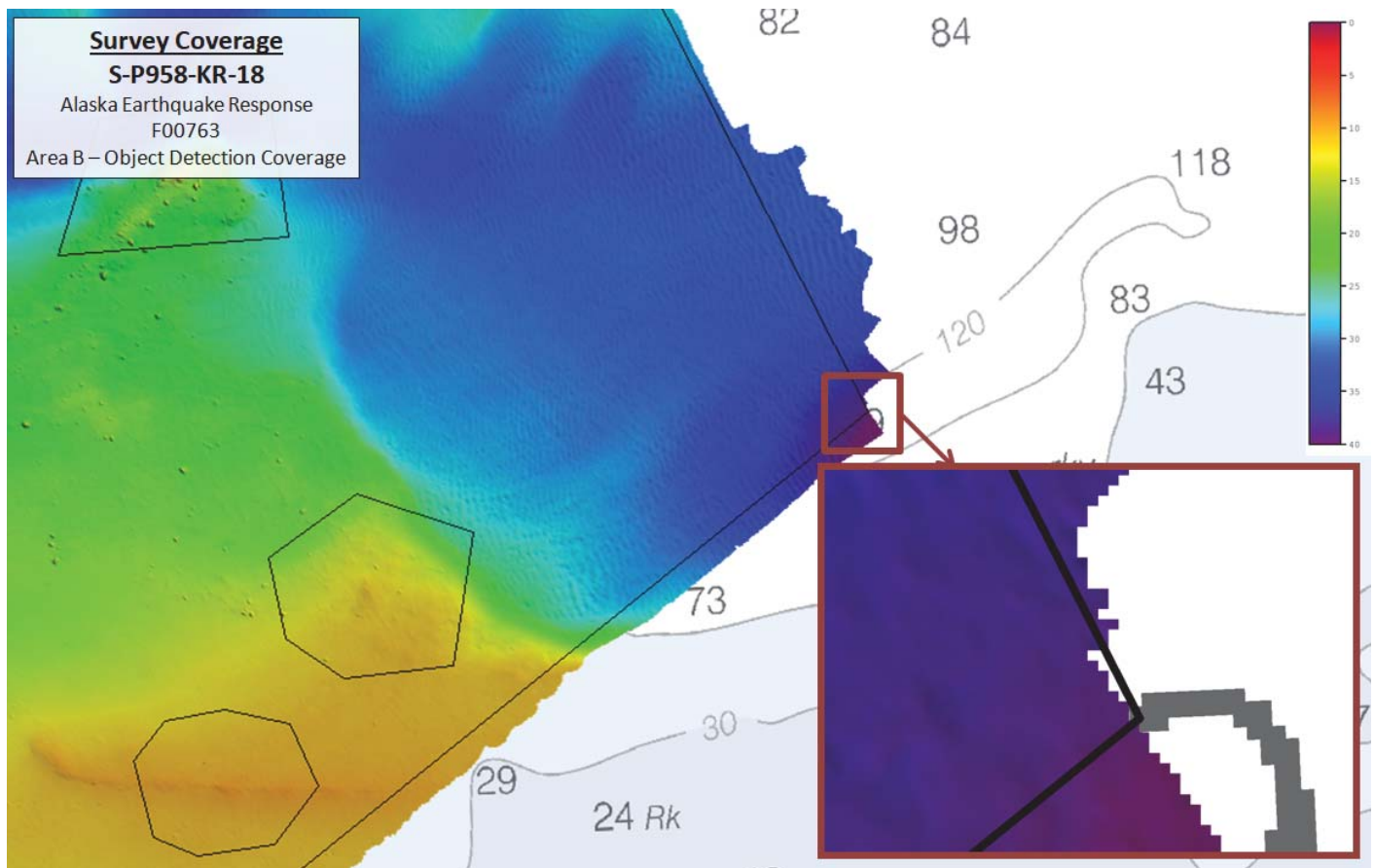


Figure 5: Survey Coverage Gap within Area B - Object Detection (scale in meters)

## A.5 Survey Statistics

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

	<b>HULL ID</b>	<i>Glacier Wind</i>	<i>Resolution</i>	<i>Total</i>
<b>LNM</b>	<b>SBES Mainscheme</b>	0	0	0
	<b>MBES Mainscheme</b>	15	161	176
	<b>Lidar Mainscheme</b>	0	0	0
	<b>SSS Mainscheme</b>	0	0	0
	<b>SBES/SSS Mainscheme</b>	0	0	0
	<b>MBES/SSS Mainscheme</b>	0	0	0
	<b>SBES/MBES Crosslines</b>	0	14	14
	<b>Lidar Crosslines</b>	0	0	0
<b>Number of Bottom Samples</b>				0
<b>Number of AWOIS Items Investigated</b>				0
<b>Number Maritime Boundary Points Investigated</b>				0
<b>Number of DPs</b>				0
<b>Number of Items Investigated by Dive Ops</b>				0
<b>Total SNM</b>				4

*Table 2: Hydrographic Survey Statistics*

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

<b>Survey Dates</b>	<b>Day of the Year</b>
12/08/2018	342
12/09/2018	343
12/10/2018	344
12/22/2018	356

*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, and any deviations from the DAPR are discussed in the following sections.

#### **B.1.1 Vessels**

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

<b>Hull ID</b>	<b><i>Glacier Wind</i></b>	<b><i>Resolution</i></b>
<b>LOA</b>	19.8 meters	8.5 meters
<b>Draft</b>	3.7 meters	0.9 meters

*Table 4: Vessels Used*

The R/V Glacier Wind is a 19.8 meter steel tractor tug equipped with a custom in-haul multibeam pole mount.

The R/V Resolution is a 8.5 meter aluminum catamaran equipped with a custom over-the-side (starboard) multibeam pole mount.

## B.1.2 Equipment

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

<b>Manufacturer</b>	<b>Model</b>	<b>Type</b>
R2Sonic	2022	MBES
R2Sonic	2020	MBES
R2Sonic	I2NS	Positioning and Attitude System
Applanix	POSMV 320 V5	Positioning and Attitude System
AML	Base.X	Sound Speed System

*Table 5: Major Systems Used*

Note: R/V Glacier Wind utilized a R2Sonic 2020 multibeam echosounder system, an AML Base.X for the sound speed system and an I2NS for the positioning system. R/V Resolution utilized a R2Sonic 2022 multibeam echosounder system, an AML Base.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 8% of mainscheme acquisition.

A comparison of crossline mileage to mainscheme mileage yields a crossline percentage of 6.4% for area A, 8.14% for area B and 9.44% for area C; This is noted to be above the required 4%.

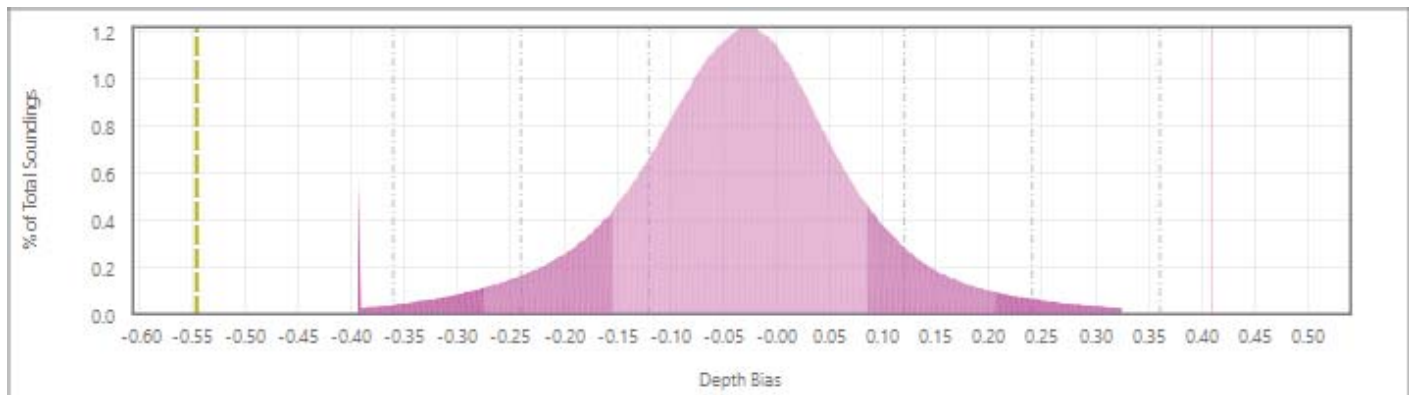
A beam-to-beam statistical analysis was performed using the Cross Check tool in Qimera. A 1 meter Combined Uncertainty and Bathymetric Estimator (CUBE) weighted dynamic surface was created incorporating only the mainscheme lines and excluded crosslines. The Cross Check tool was used to perform the beam-by-beam comparison of the crossline data to the mainscheme surface. Comparisons showed excellent agreement, well above 95% of the allowable TVU for areas A and B. For area C, the comparison between crosslines and mainscheme lines yielded a 85.2% for the beam-to-beam statistical analysis. The reason the percentage is lower is do to migrating sandwaves in the region. Mainschene lines were collected on DN342 and DN343 and crosslines were collected on DN344. Areas with large and small sandwaves show movement between days. Areas with no sandwaves show excellent agreement between days. Following images of the histograms for the beam-to-beam analysis of each area, there are images of the small migrating sandwaves, large migrating andwaves, and an area with no sandwaves to show the comparison between days in area C. Lastly there is an image with all three types of seafloor within one cross section. Crossline 2018RE3440651 is the crossline imaged in all four images.



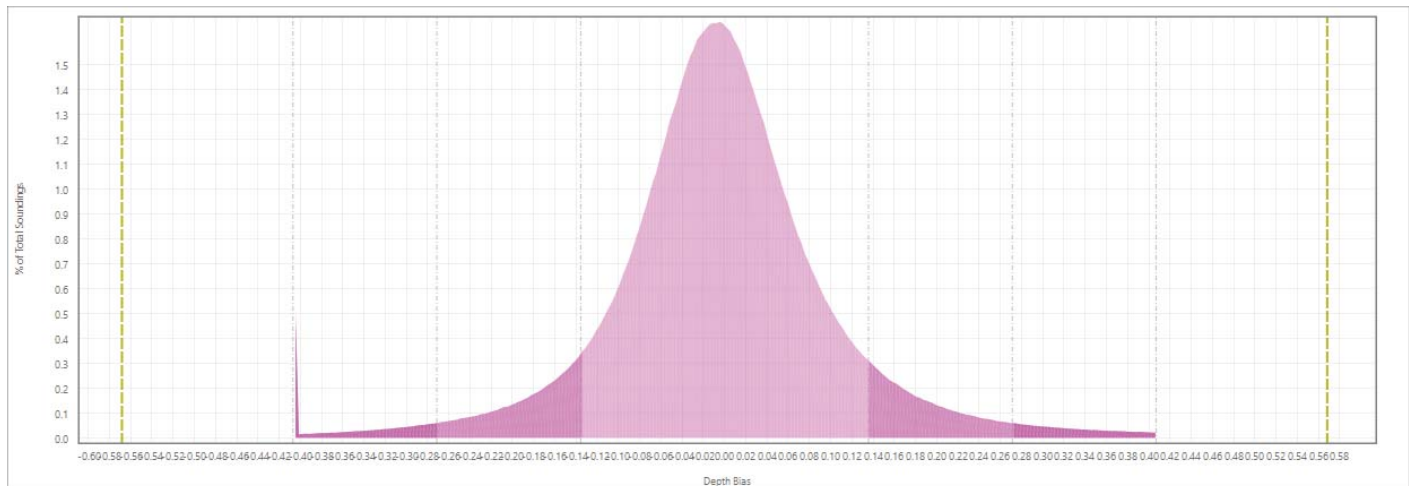
Note: These surfaces were created for QC only and is not submitted as a surface deliverable.

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

Below are histograms of the crossline comparison statistics showing IHO Order 1a compliance per beam.



*Figure 6: F00763 Crossline Comparison - Area A (1m)*



*Figure 7: F00763 Crossline Comparison - Area B (1m)*



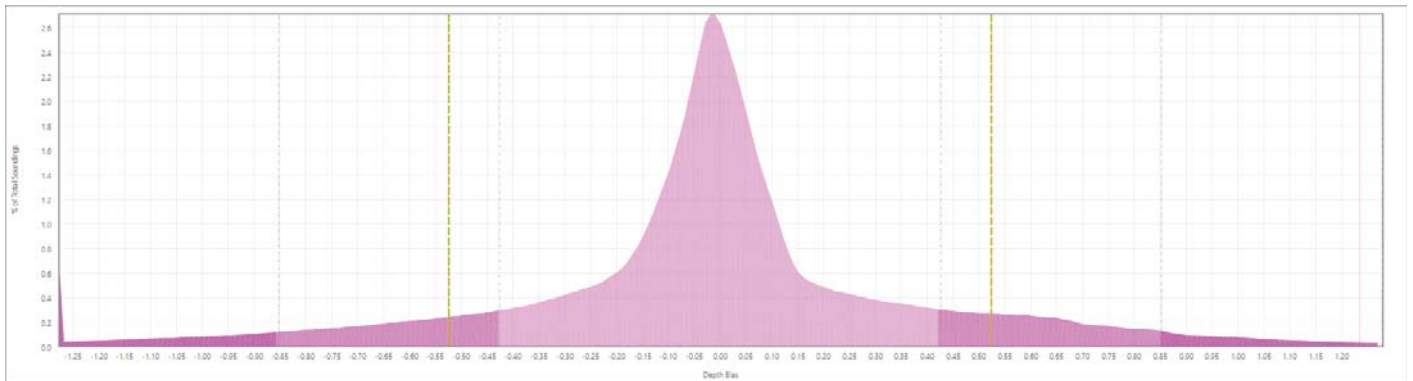


Figure 8: F00763 Crossline Comparison - Area C (1m)

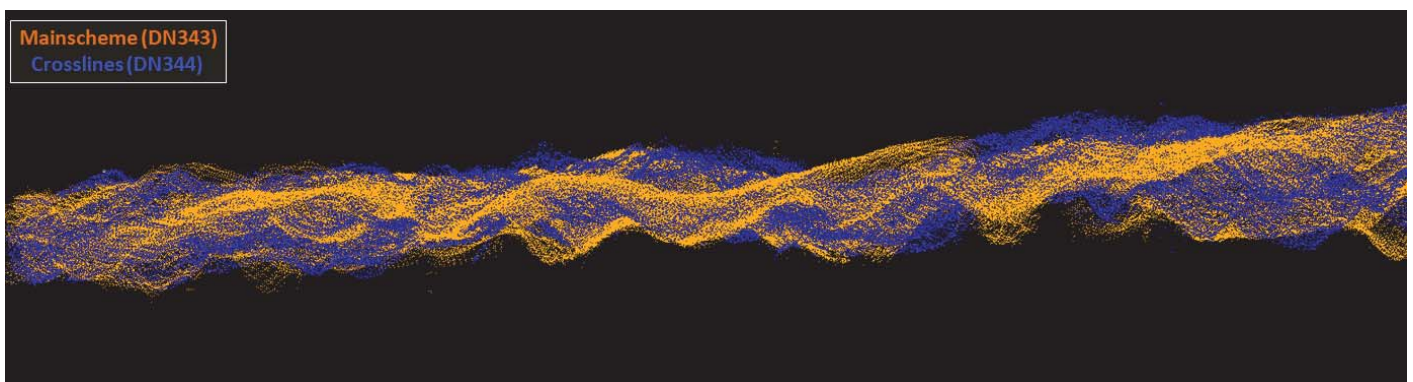


Figure 9: Small Sandwave Movement between Mainscheme and Crosslines

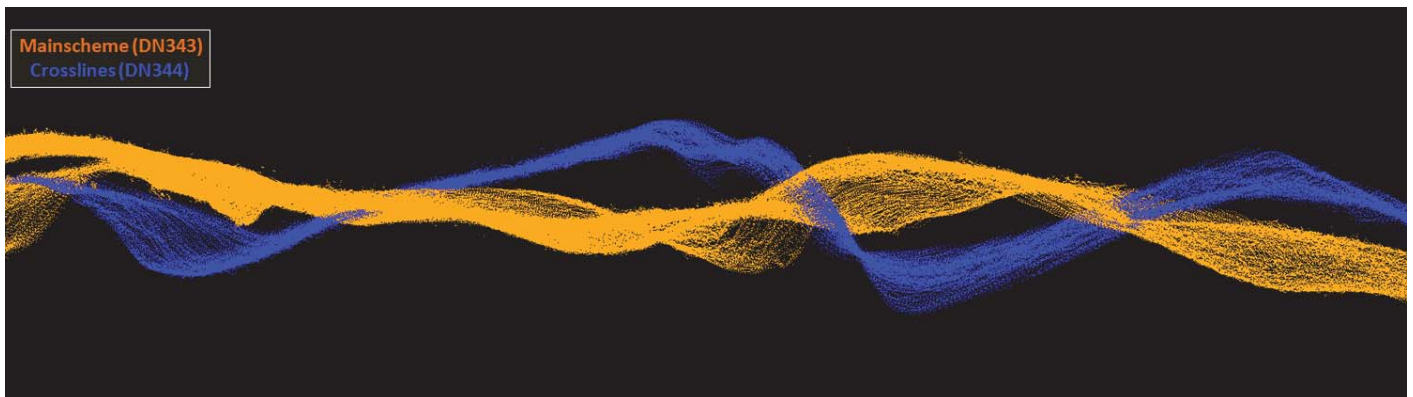


Figure 10: Large Sandwave Movement between Mainscheme and Crosslines

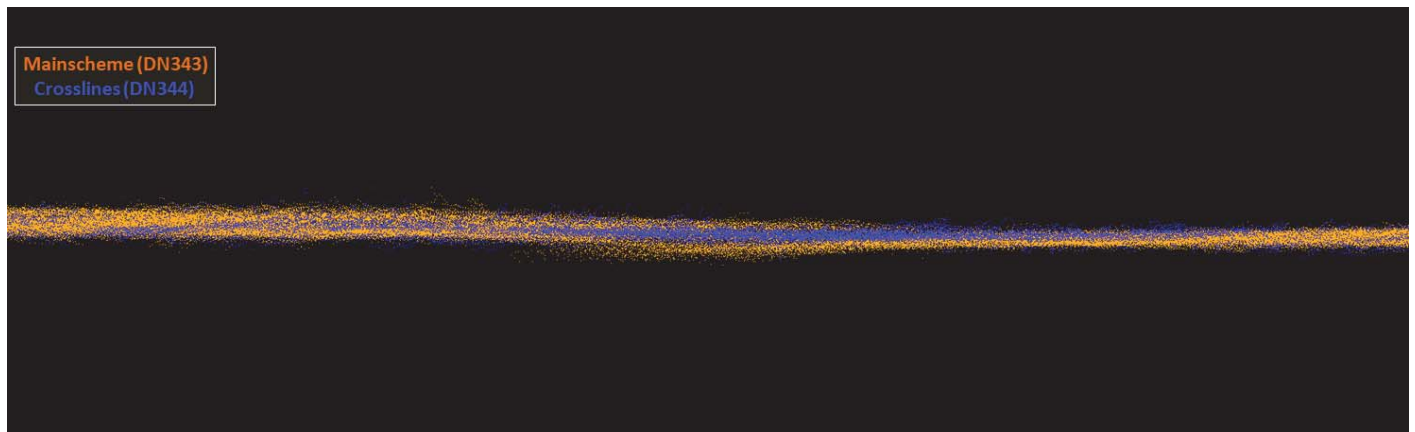


Figure 11: Areas with No Sandwave show Excellent Agreement between Mainscheme and Crosslines

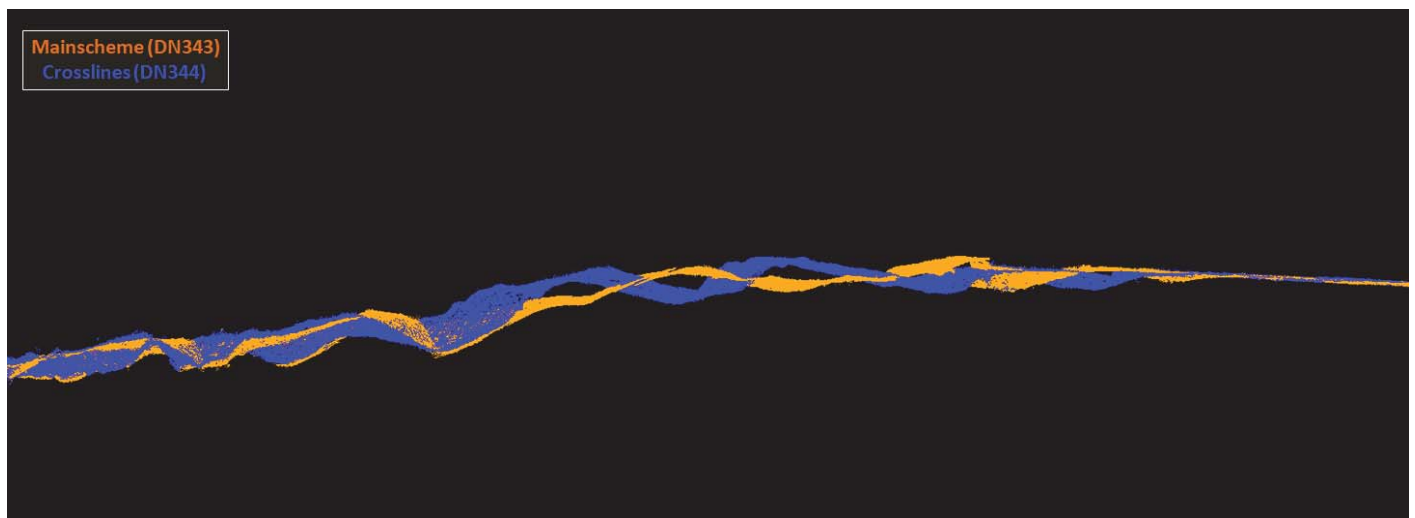


Figure 12: Cross section of sandwaves and no sandwaves between Mainscheme and Crosslines

## B.2.2 Uncertainty

Hull ID	Measured - CTD	Measured - MVP	Surface
Glacier Wind	0.5 meters/second	0 meters/second	0.025 meters/second
Resolution	0.5 meters/second	0 meters/second	0.025 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) surfaces' uncertainty was generated through the NOAA QC Tools and an image of the results is located below.

For Area A of F00763 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.

For Area B of F00763 the following percentages represent the results of the TPU testing:

Object Detection Coverage (Finalized 50cm CUBE weighted Dynamic Surface in NOAA QC Tools) = 98% of nodes are within the allowable TPU.

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

For Area C of F00763 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.

## Uncertainty Standards

Grid source: A\_1m\_Clipped

99.5+% pass (1,862,334 of 1,863,386 nodes), min=0.00, mode=0.11, max=2.87

Percentiles: 2.5%=0.06, Q1=0.11, median=0.16, Q3=0.24, 97.5%=0.49

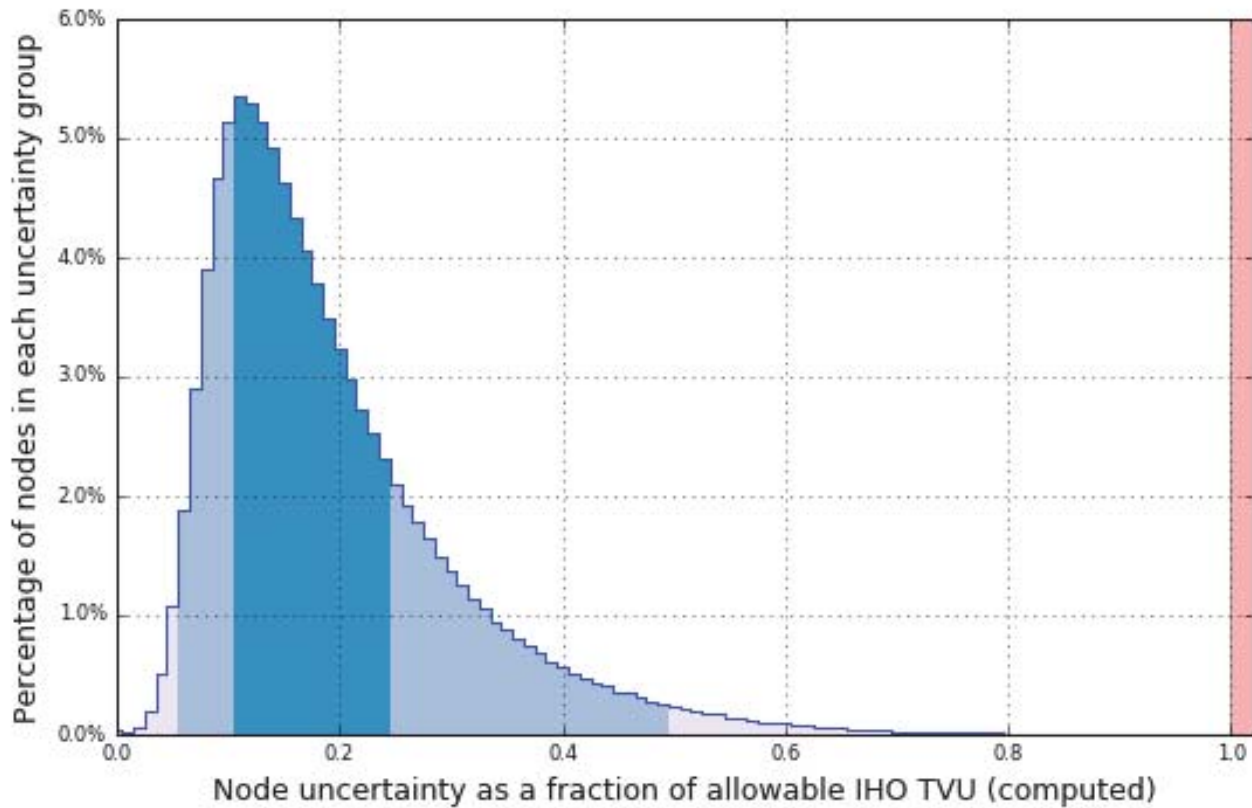


Figure 13: Area A of F00763 Finalized 1m Complete Coverage MBES TPU Statistics (NOAA QC Tools)

## Uncertainty Standards

Grid source: A\_2m\_Clipped

99.5+% pass (285,775 of 285,785 nodes), min=0.00, mode=0.12, max=1.61

Percentiles: 2.5%=0.07, Q1=0.12, median=0.16, Q3=0.25, 97.5%=0.47

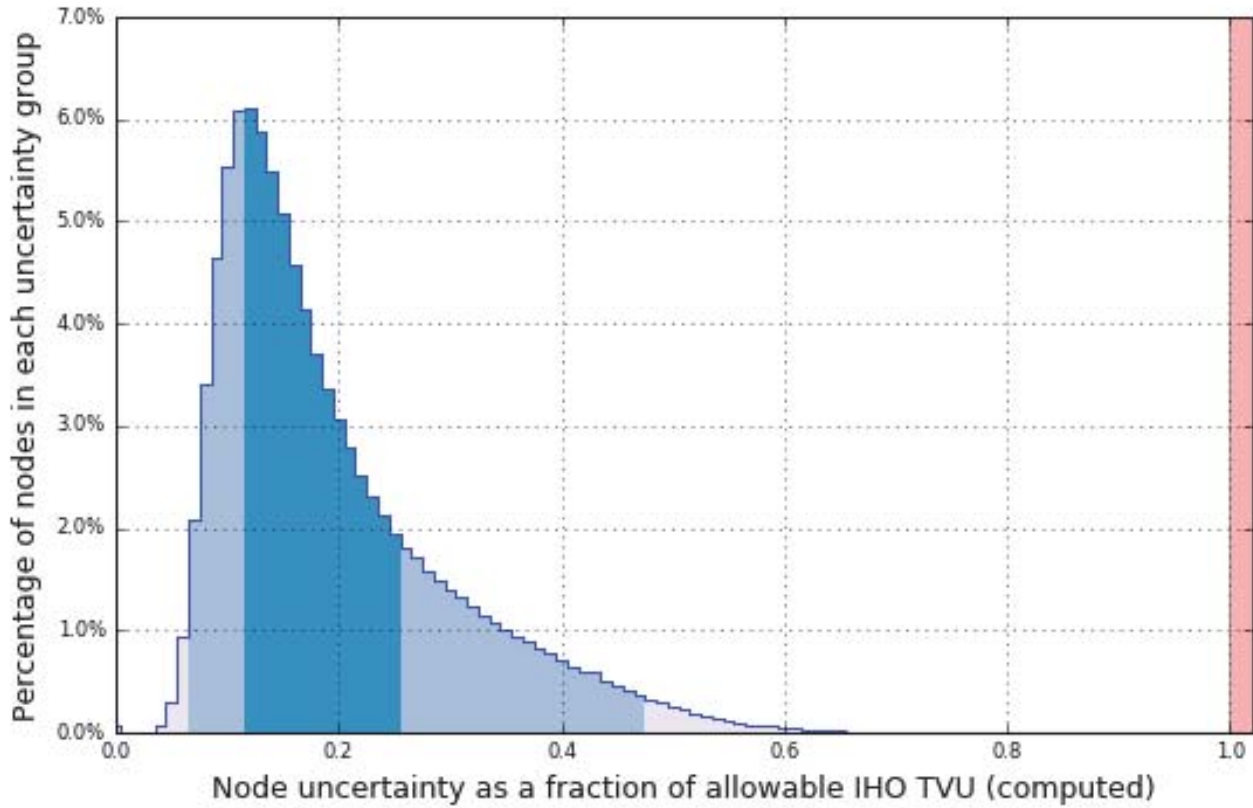


Figure 14: Area A of F00763 Finalized 2m Complete Coverage MBES TPU Statistics (NOAA QC Tools)

## Uncertainty Standards

Grid source: B\_50cm\_Clipped

98% pass (4,330,630 of 4,407,491 nodes), min=0.00, mode=0.14, max=8.32

Percentiles: 2.5%=0.07, Q1=0.13, median=0.19, Q3=0.29, 97.5%=0.87

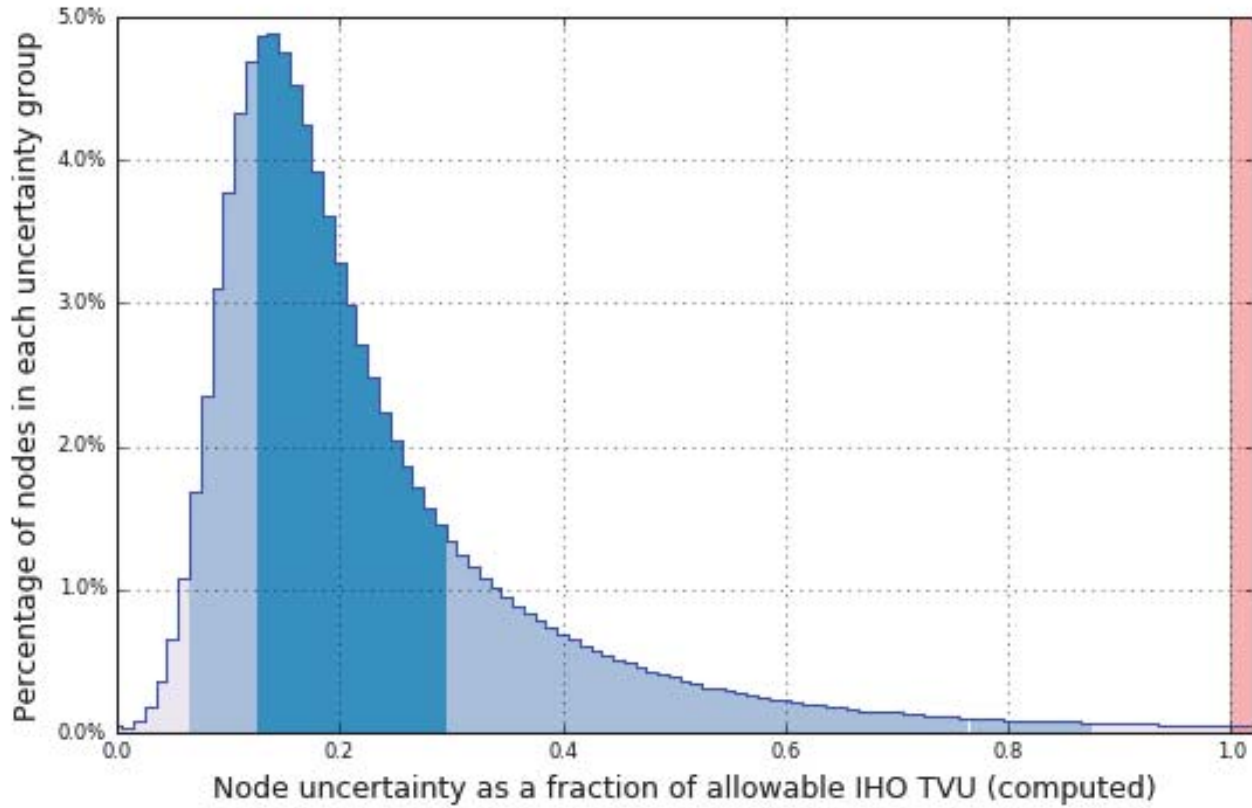


Figure 15: Area B of F00763 Finalized 50cm Object Detection MBES TPU Statistics (NOAA QC Tools)



## Uncertainty Standards

Grid source: B\_1m\_Clipped

99.5+% pass (2,225,693 of 2,233,603 nodes), min=0.00, mode=0.16, max=5.38

Percentiles: 2.5%=0.07, Q1=0.15, median=0.22, Q3=0.32, 97.5%=0.55

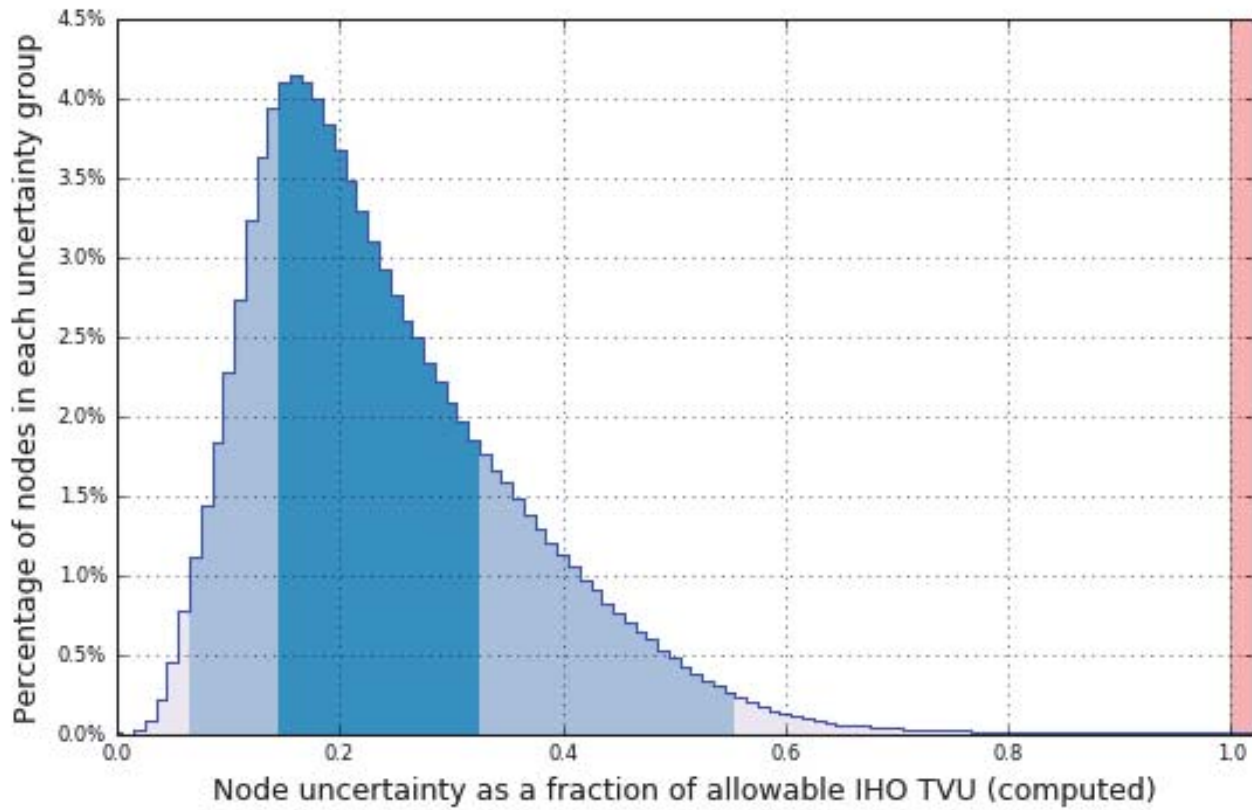


Figure 16: Area B of F00763 Finalized 1m Object Detection MBES TPU Statistics (NOAA QC Tools)



## Uncertainty Standards

Grid source: C\_1m\_Clipped

99.5+% pass (3,392,820 of 3,393,400 nodes), min=0.00, mode=0.10, max=2.00

Percentiles: 2.5%=0.05, Q1=0.11, median=0.18, Q3=0.29, 97.5%=0.57

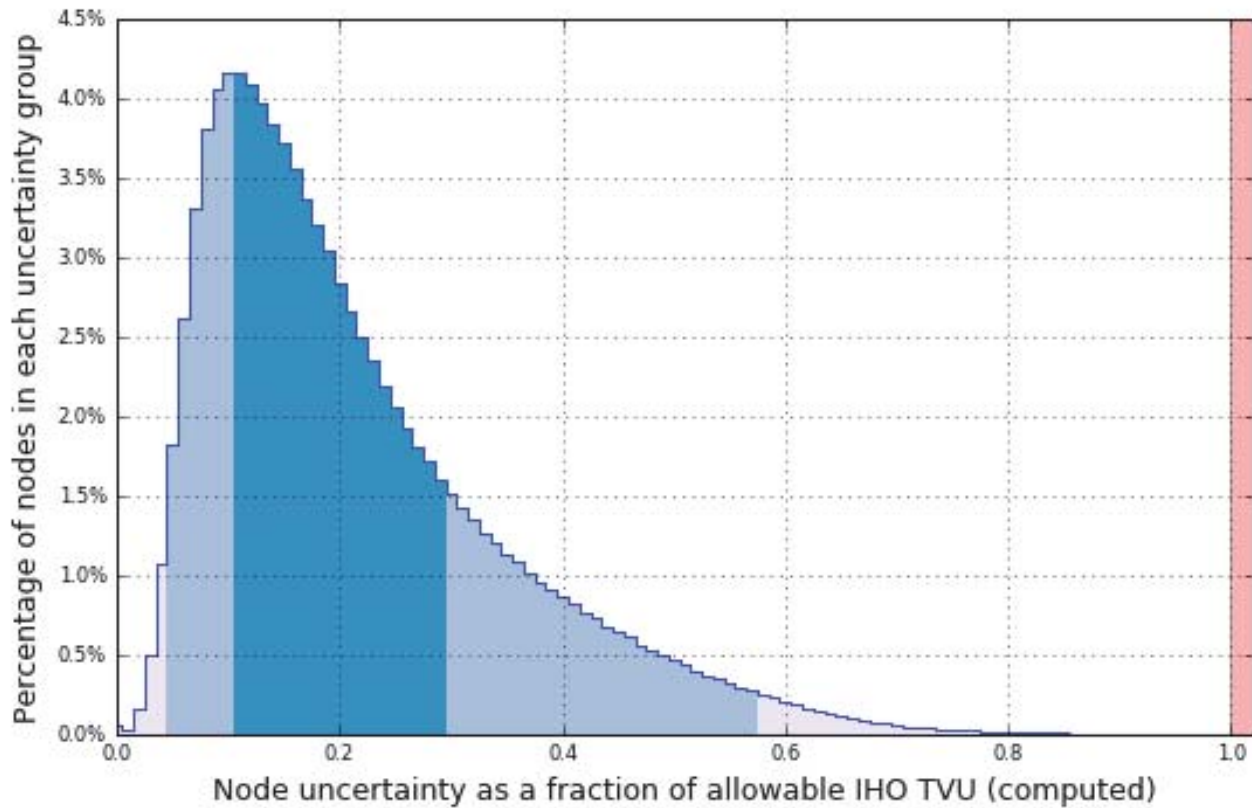


Figure 17: Area C of F00763 Finalized 1m Complete Coverage MBES TPU Statistics (NOAA QC Tools)

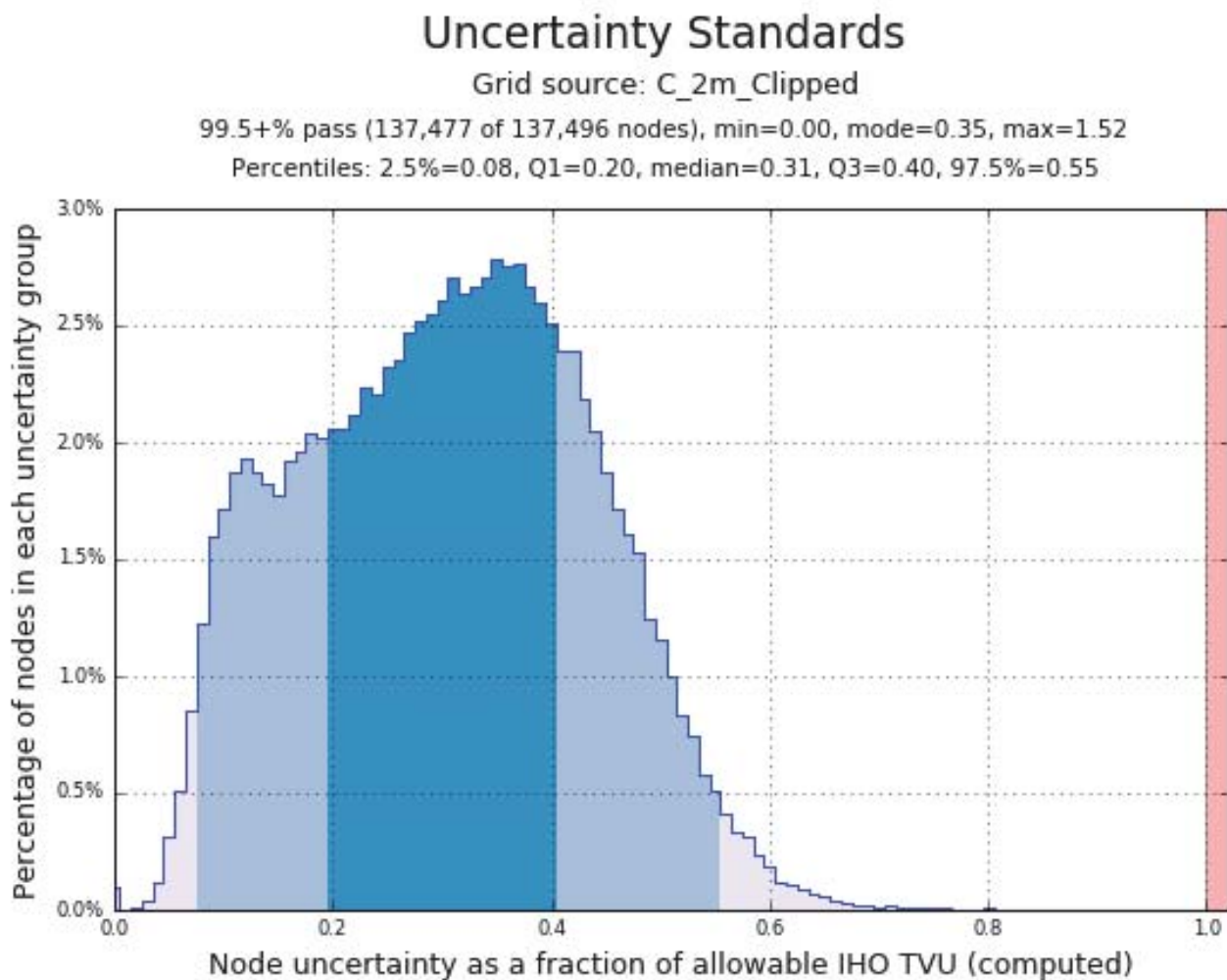


Figure 18: Area C of F00763 Finalized 2m Complete Coverage MBES TPU Statistics (NOAA QC Tools)

### B.2.3 Junctions

There are no contemporary surveys that junction with this survey.

### B.2.4 Sonar QC Checks

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

### **B.2.5 Equipment Effectiveness**

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

### **B.2.6 Factors Affecting Soundings**

There were no other factors that affected corrections to soundings.

### **B.2.7 Sound Speed Methods**

Sound Speed Cast Frequency: SVP casts were generally taken every 2 hours. Occasionally casts would exceed a 2 hour frequency, however would never exceed a 4 hour frequency. On R/V Glacier Wind and R/V Resolution 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 F00763 the following percentages represent the results of the density query:

Area A - Complete Coverage MBES (Finalized 1m CUBE weighted Dynamic Surface ) = 98.8102% of nodes are composed from at least 5 soundings.

Area A - Complete Coverage MBES (Finalized 2m CUBE weighted Dynamic Surface ) = 99.7178% of nodes are composed from at least 5 soundings.

Area B - Object Detection Coverage MBES (Finalized 50cm CUBE weighted Dynamic Surface ) = 98.6938% of nodes are composed from at least 5 soundings.

Area B - Object Detection Coverage MBES (Finalized 1m CUBE weighted Dynamic Surface ) = 99.5475% of nodes are composed from at least 5 soundings.

Area C - Complete Coverage MBES (Finalized 1m CUBE weighted Dynamic Surface ) = 98.5096% of nodes are composed from at least 5 soundings.

Area C - Complete Coverage MBES (Finalized 2m CUBE weighted Dynamic Surface ) = 99.4595% of nodes are composed from at least 5 soundings

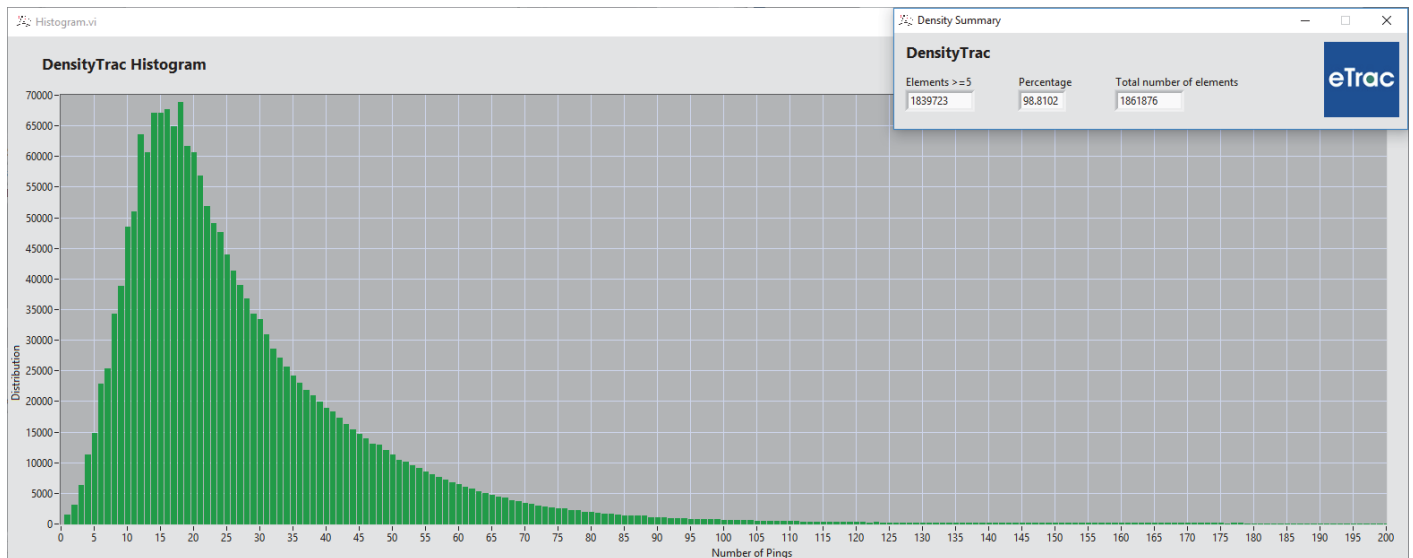


Figure 19: Area A of F00763 - Finalized 1m Complete Coverage MBES Density Distribution

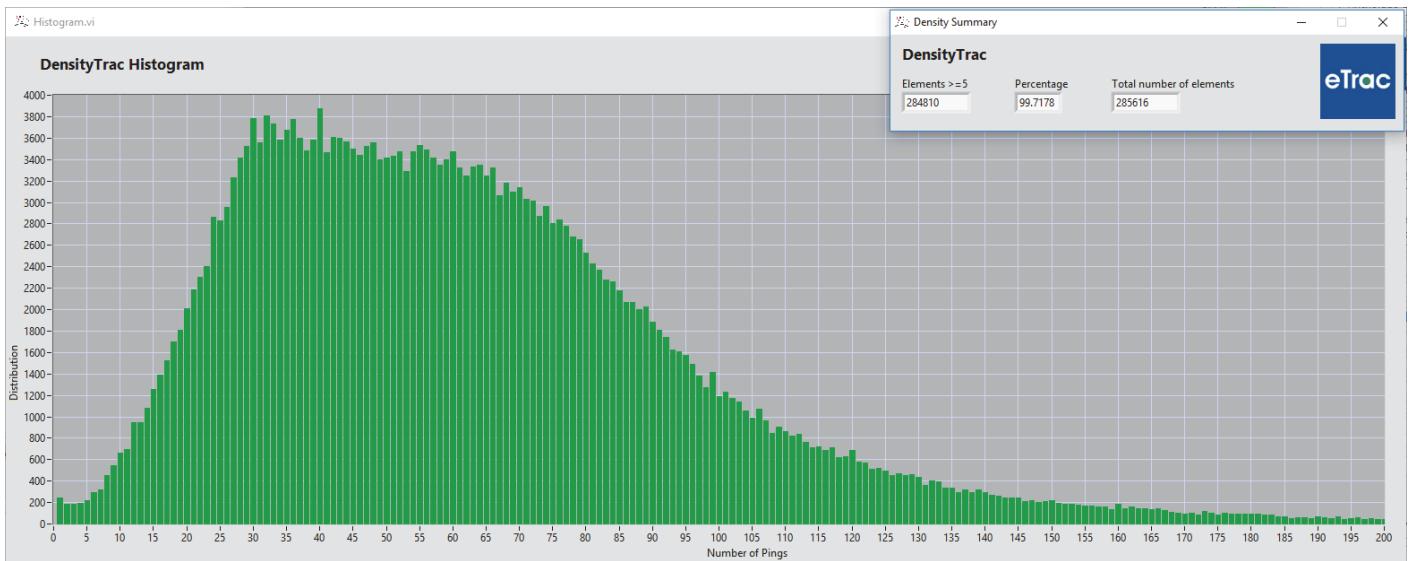


Figure 20: Area A of F00763 - Finalized 2m Complete Coverage MBES Density Distribution

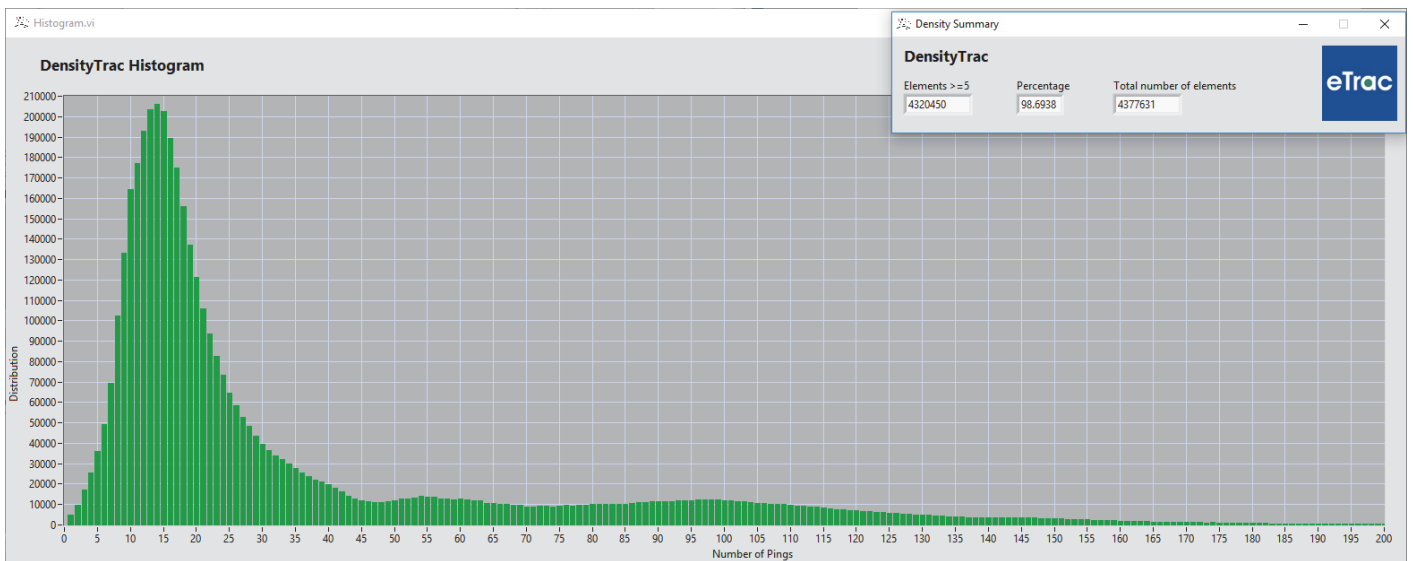


Figure 21: Area B of F00763 - Finalized 50cm Object Detection MBES Density Distribution

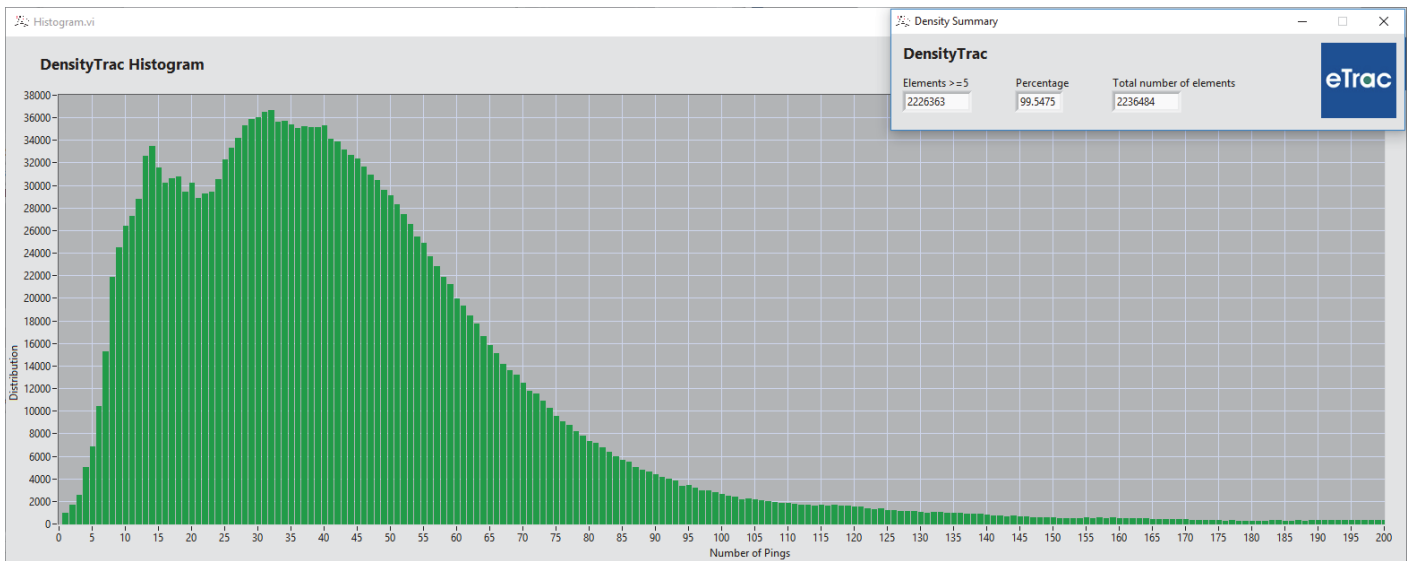


Figure 22: Area B of F00763 - Finalized 1m Object Detection MBES Density Distribution

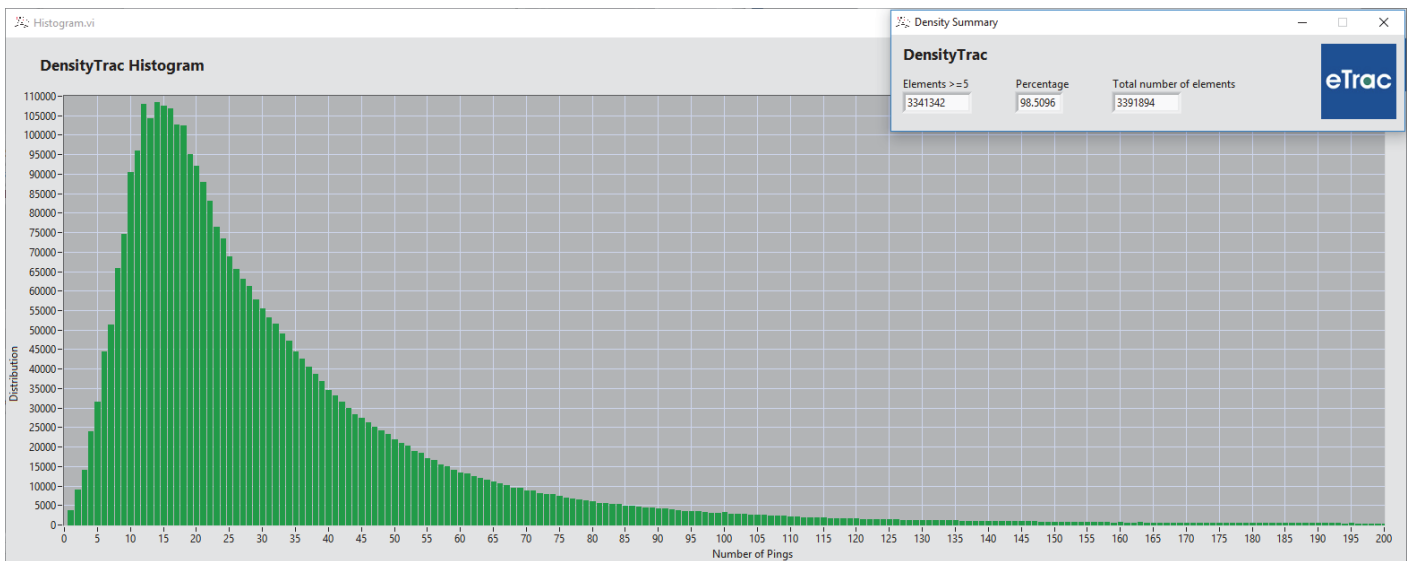
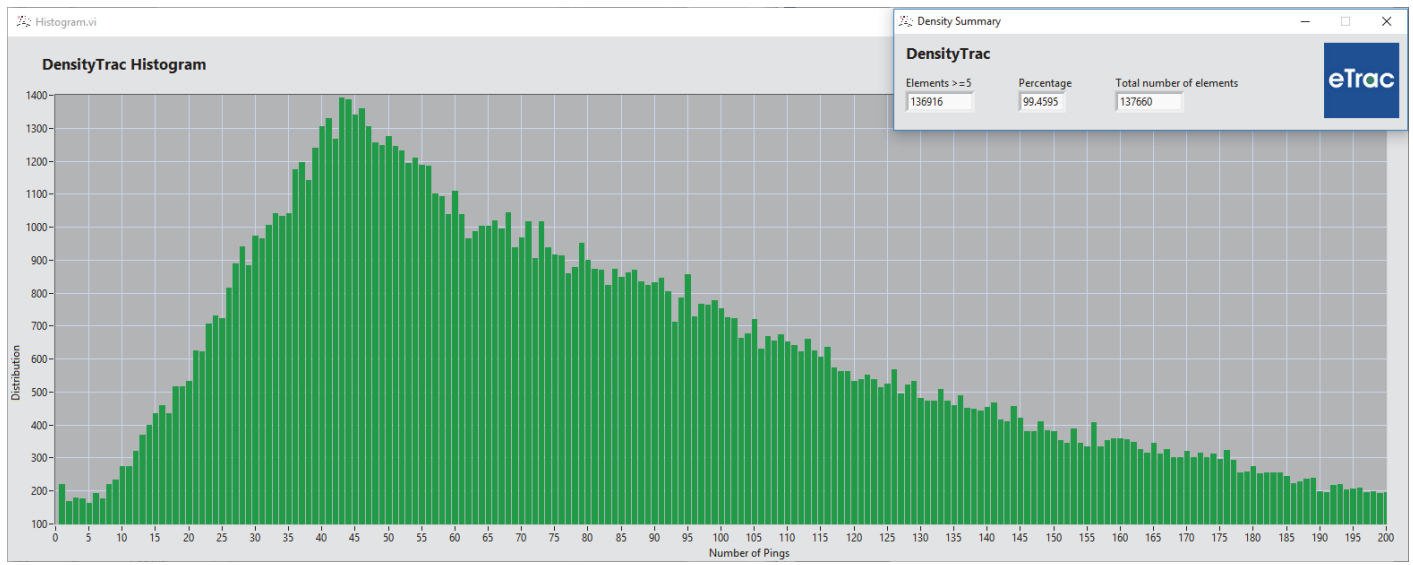


Figure 23: Area C of F00763 - Finalized 1m Complete Coverage MBES Density Distribution



*Figure 24: Area C of F00763 - Finalized 2m Complete Coverage MBES Density Distribution*

## B.3 Echo Sounding Corrections

### B.3.1 Corrections to Echo Soundings

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

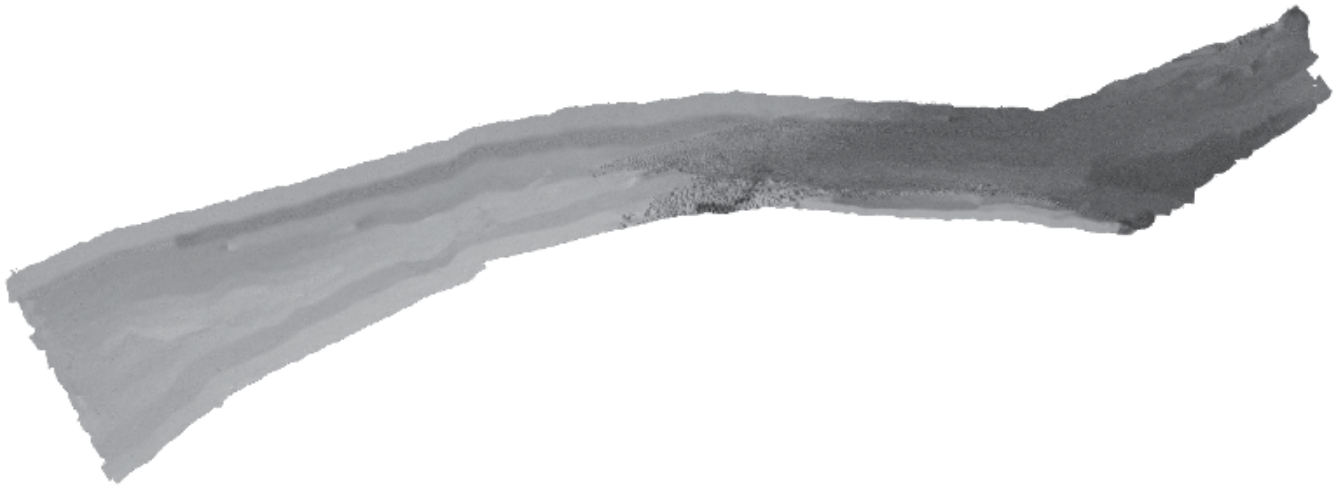
### B.3.2 Calibrations

All sounding systems were calibrated as detailed in the DAPR.

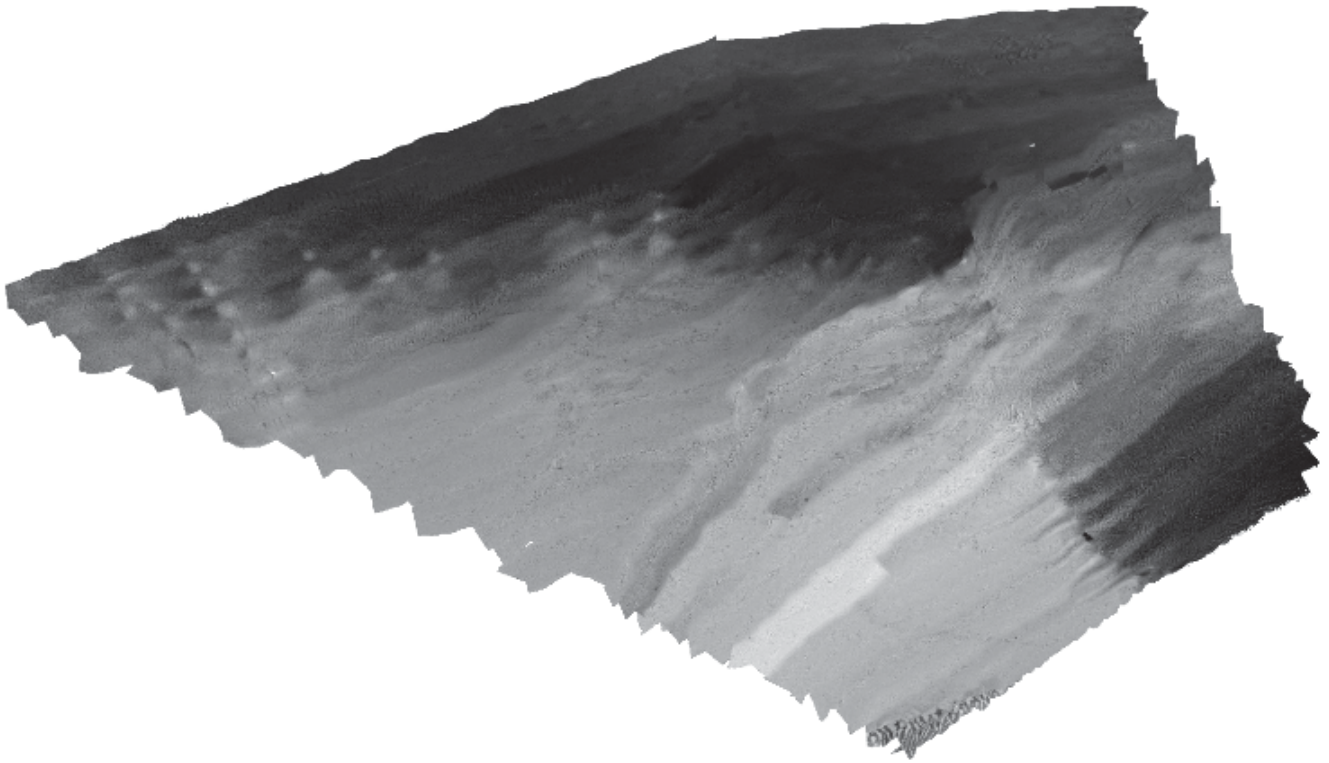
## B.4 Backscatter

Backscatter data were collected throughout the survey and are retained in the raw 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 acquisition 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 F00763 area A, area B and area C.

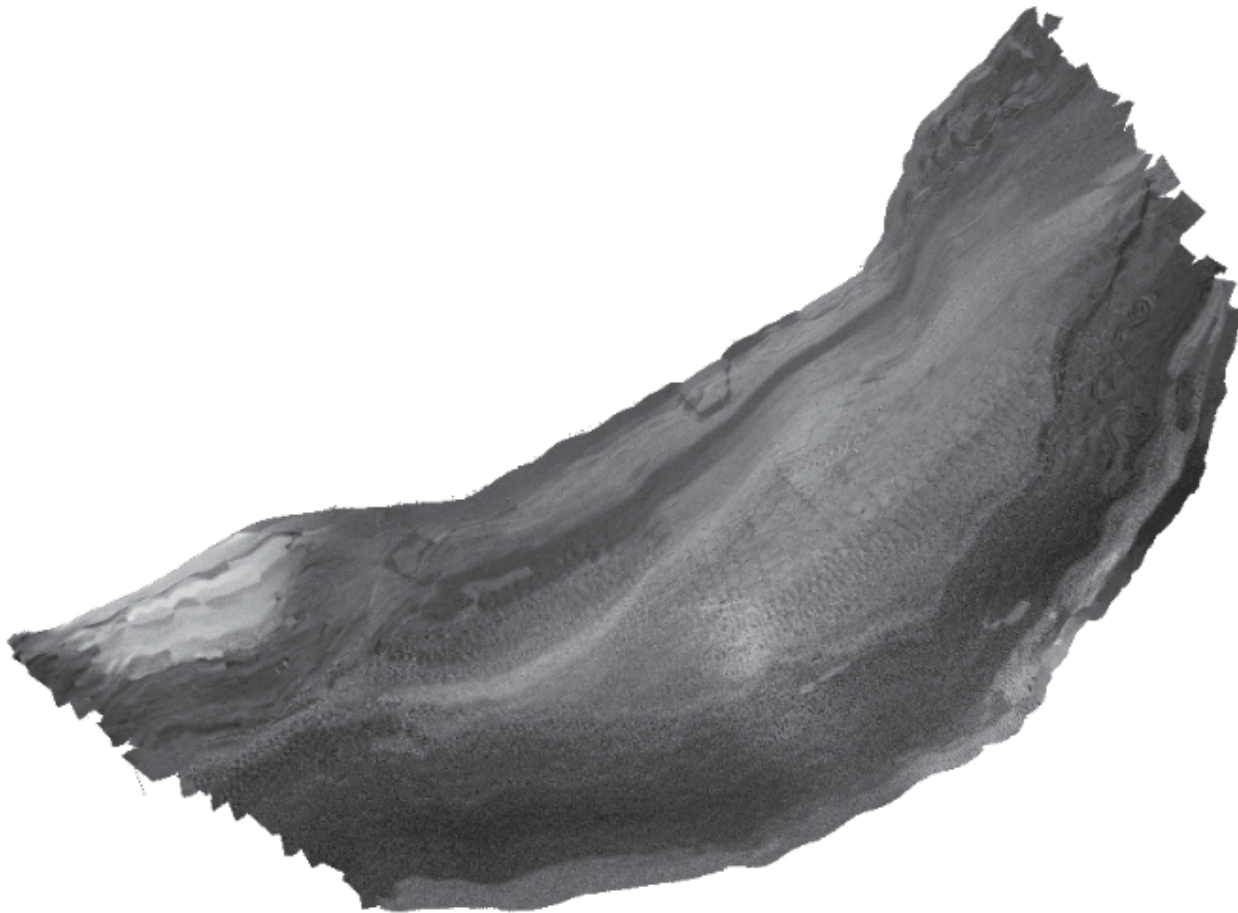




*Figure 25: Raw backscatter from Area A of F00763*



*Figure 26: Raw backscatter from Area B of F00763*



*Figure 27: Raw backscatter from Area C of F00763*

## **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 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
F00763_A_MB_1m_MLLW_Final	CUBE	1 meters	2.3 meters - 20 meters	NOAA_1m	Complete MBES
F00763_A_MB_2m_MLLW_Final	CUBE	2 meters	18 meters - 25 meters	NOAA_2m	Complete MBES
F00763_B_MB_50cm_MLLW_Final	CUBE	50 centimeters	9.2 meters - 20 meters	NOAA_0.5m	Object Detection
F00763_B_MB_1m_MLLW_Final	CUBE	1 meters	18 meters - 41.3 meters	NOAA_1m	Object Detection
F00763_C_MB_1m_MLLW_Final	CUBE	1 meters	3 meters - 20 meters	NOAA_1m	Complete MBES
F00763_C_MB_2m_MLLW_Final	CUBE	2 meters	18 meters - 23.3 meters	NOAA_2m	Complete MBES

*Table 7: Submitted Surfaces*



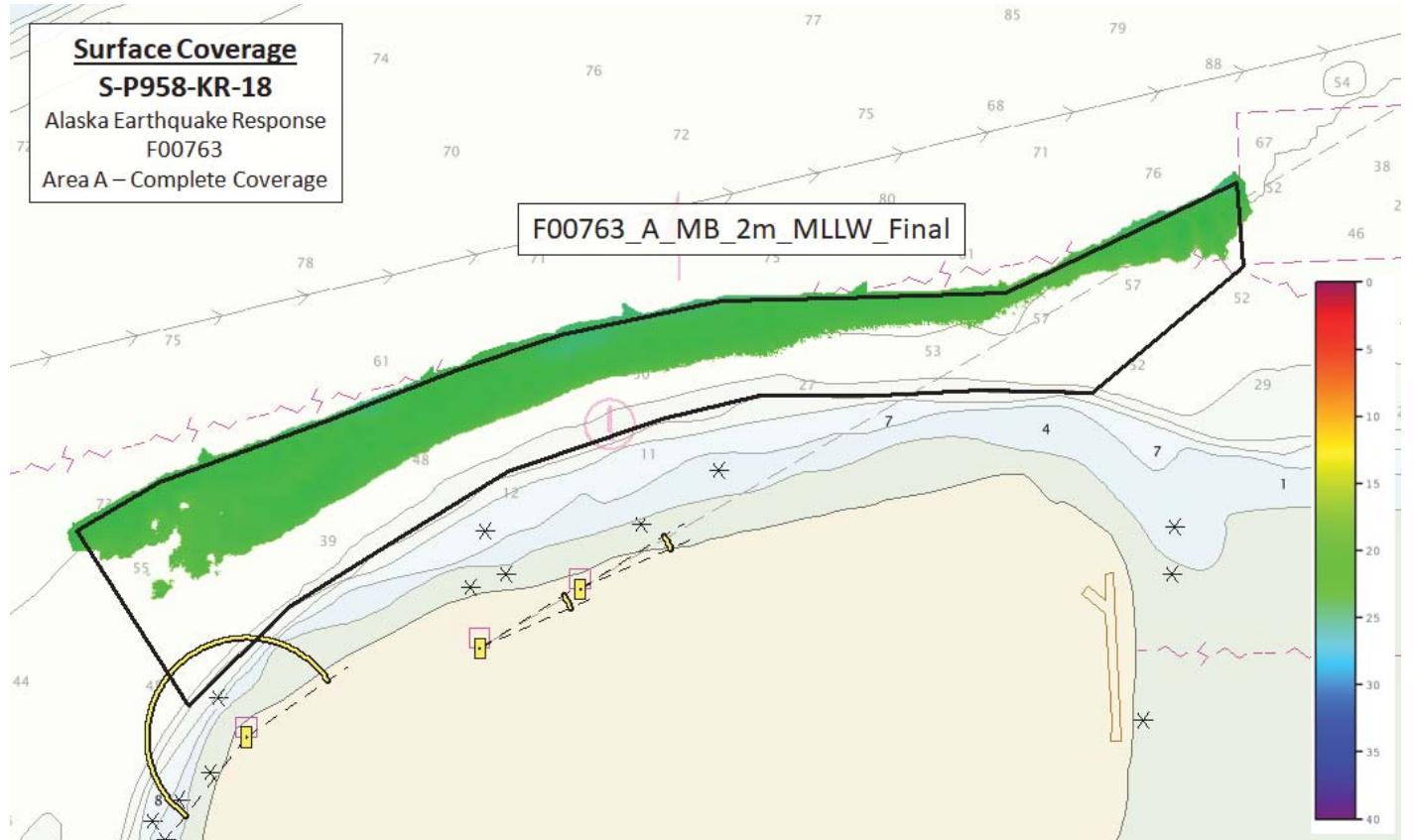


Figure 29: Area A of F00763 Delivered CUBE weighted Dynamic Surface Coverage - 2m (scale in meters)



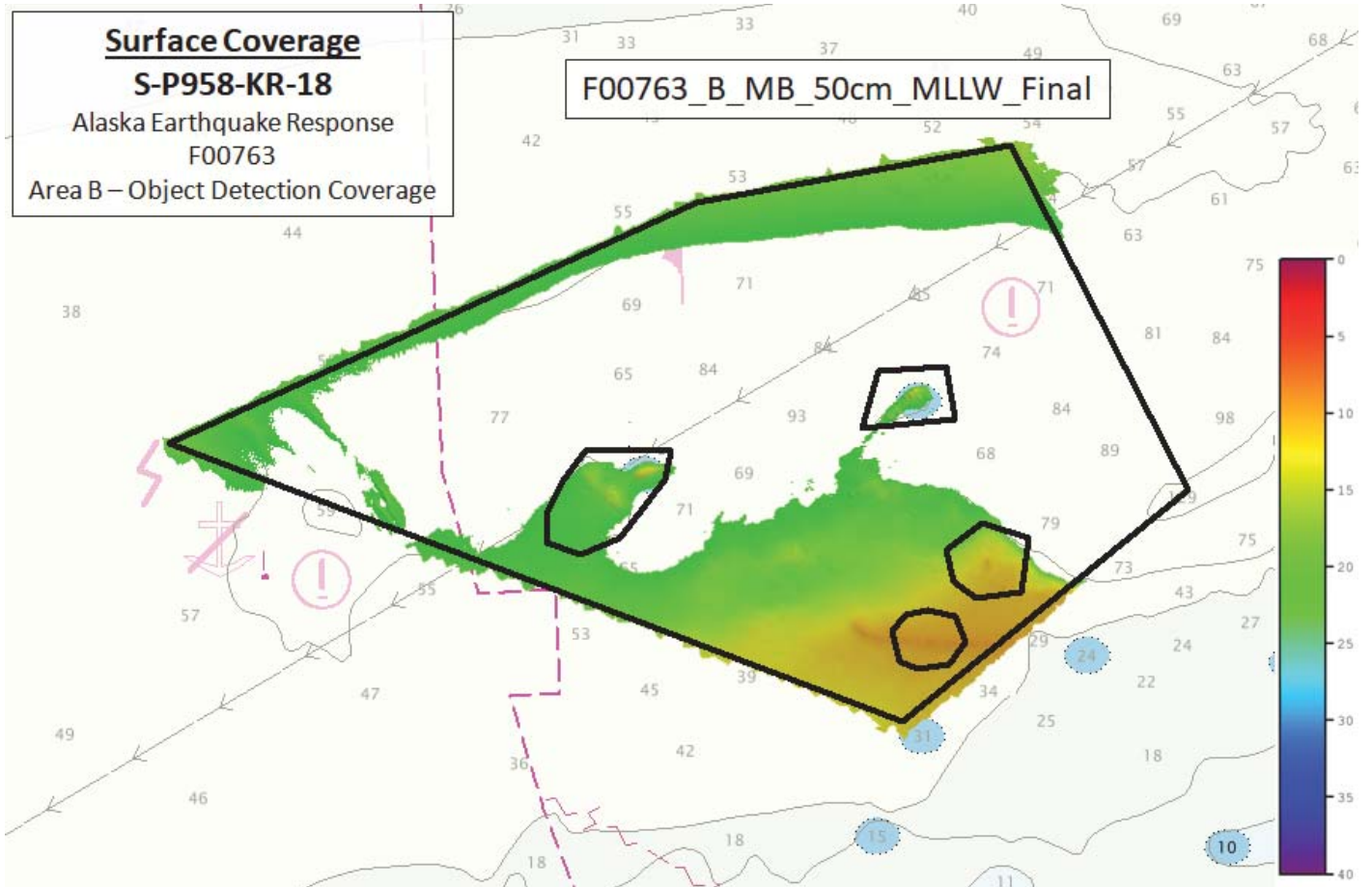


Figure 30: Area B of F00763 Delivered CUBE weighted Dynamic Surface Coverage - 50cm (scale in meters)



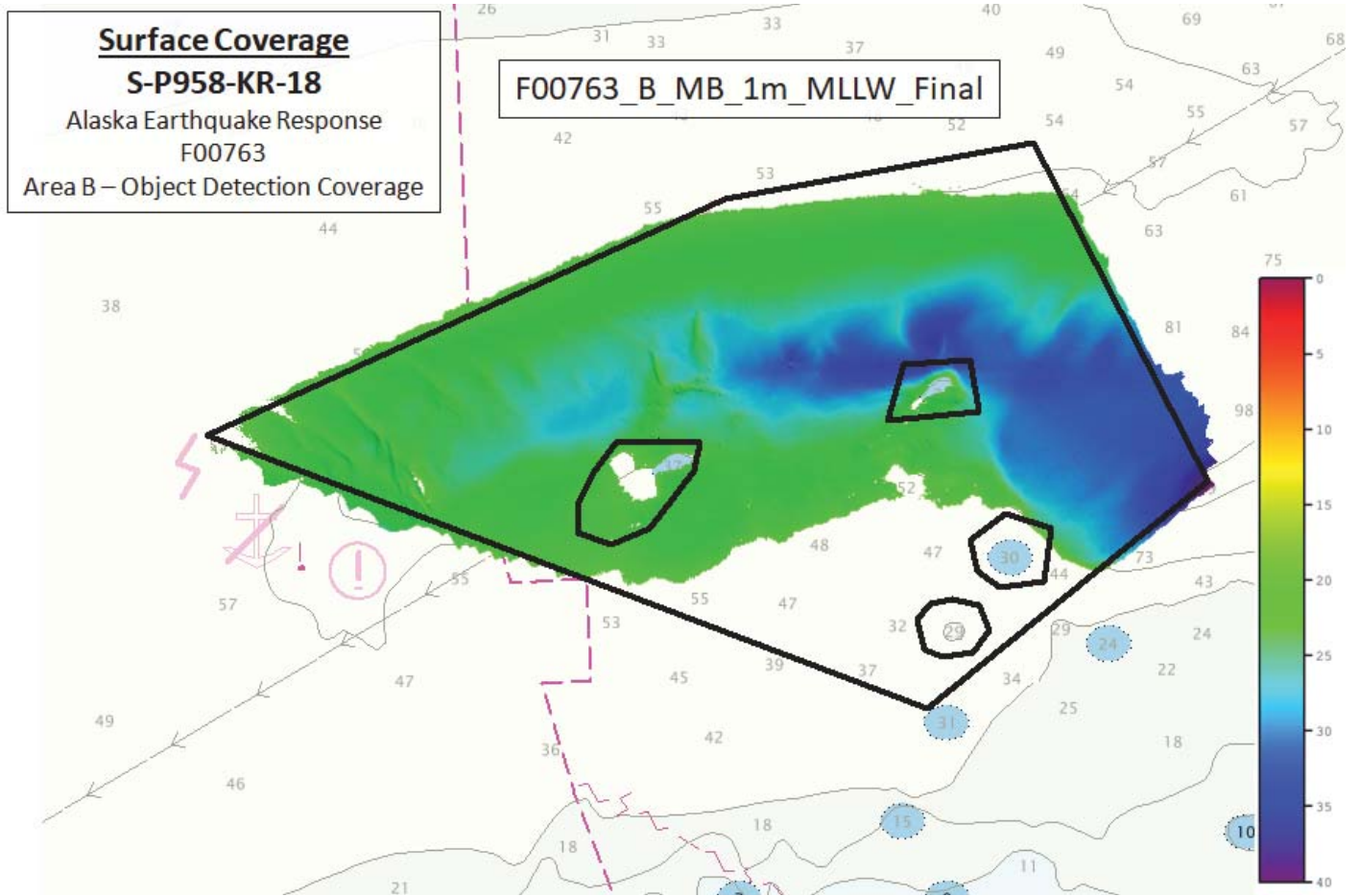


Figure 31: Area B of F00763 Delivered CUBE weighted Dynamic Surface Coverage - 1m (scale in meters)

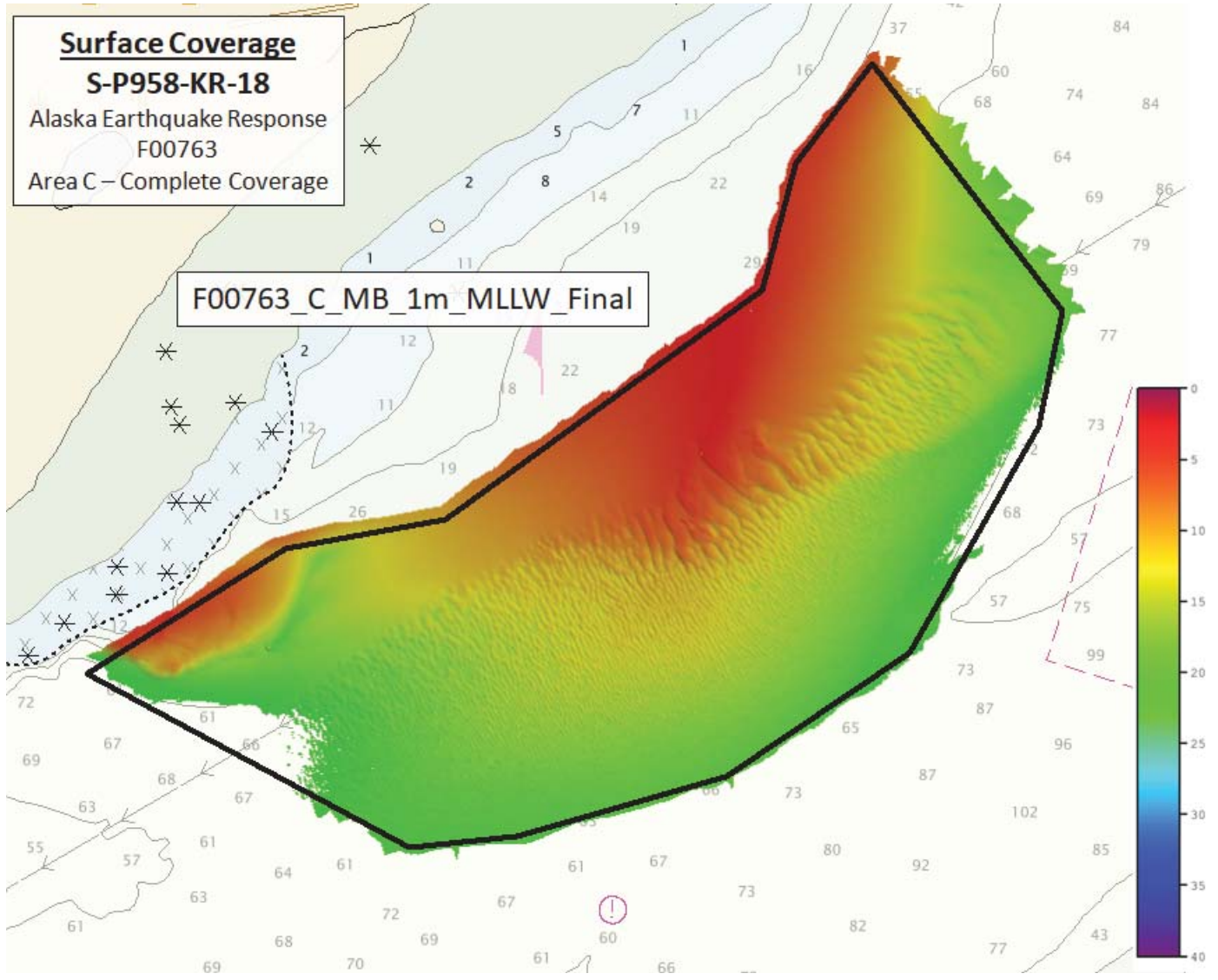


Figure 32: Area C of F00763 Delivered CUBE weighted Dynamic Surface Coverage - 1m (scale in meters)

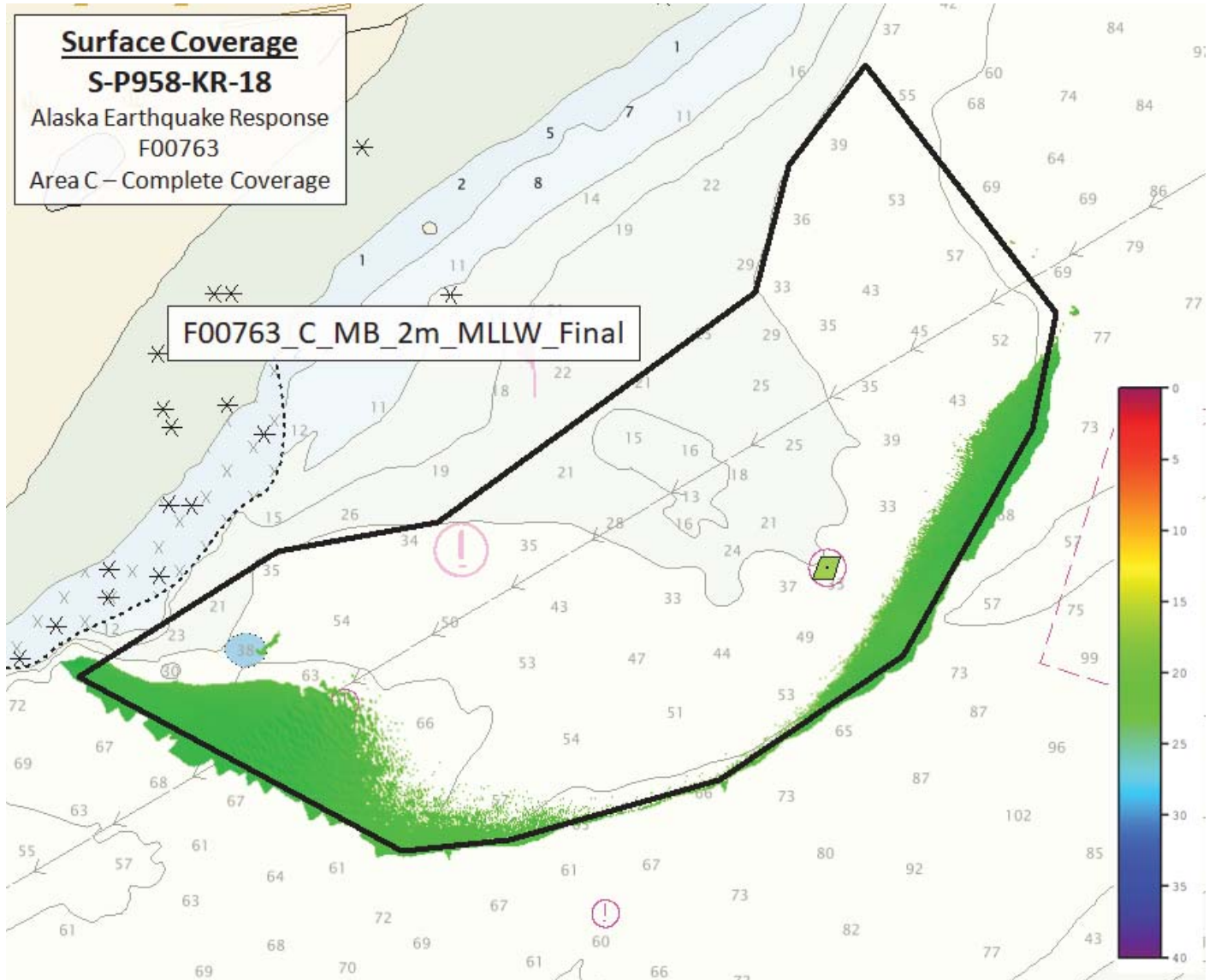


Figure 33: Area C of F00763 Delivered CUBE weighted Dynamic Surface Coverage - 2m (scale in meters)

## C. Vertical and Horizontal Control

### C.1 Vertical Control

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

## 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 5N.

The following PPK methods were used for horizontal control:

Single Base

## D. Results and Recommendations

### D.1 Chart Comparison

A chart comparison was conducted for F00763 using Qimera and Caris HIPS and SIPS. Contours and soundings were compared against the largest scale ENC, US5AK16M, to accomplish the chart comparison.

Contour Comparison Method: Using the 1 meter CUBE weighted Dynamic Surface for areas A and C and the 50 centimeter CUBE weighed Dynamic Surface for area B, the 12 foot, 18 foot, 30 foot and 60 foot contours were generated in Qimera and displayed against the charted contour. Additionally, the CUBE weighted Dynamic Surfaces were viewed by a custom color band range based on the contour intervals (12ft, 18ft, 30ft, 60ft). The results of the comparison are described below, followed by 1-2 images of each area.

Sounding Comparison Method: Using the same 1m and 50cm 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 each area.

#### 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?
US5AK16M	1:50000	25	11/06/2018	11/06/2018	NO

*Table 8: Largest Scale ENCs*



US5AK16M

## Area A - Contour Comparison Results:

The 18 foot contour on the southern edge of F00763 has excellent agreement with the charted contour and differs approximately 0 to 70 feet shoreward and seaward. The 30 foot contour has excellent agreement with the charted contour and has receded shoreward approximately 0 to 90 feet. In the western region of the survey boundary, the 60 foot contour has receded shoreward approximately 70 to 700 feet. In the center region of the survey boundary, the 60 foot contour has receded shoreward 280 to 330 feet. In the eastern region of the survey boundary, the 60 foot contour generally agrees with the charted contour, except for the very eastern region where the 60 foot contour has receded approximately 365 feet from the charted contour.

## Area B - Contour Comparison Results:

The 30 foot contour no longer exists within the survey boundary. The 60 foot contour in the southern region of the survey boundary generally agrees with the charted contours and has receded shoreward approximately 50 to 220 feet. There are two shoals distinguished by a 60 foot contour in the center region of the survey boundary. The eastern one typically agrees with the charted contour. The western one disagrees with the charted contour because it is charted as connecting with the southern 60 foot contour. There are two additional smaller shoals distinguished by a 60 foot contour on the western edge of the survey boundary. This disagrees with the charted contour in that region which shows a larger shoal that is located 175 feet west. The 60 foot contour on the northern edge of the survey boundary has progressed north approximately 5 to 580 feet, except near the eastern edge where the 60 foot contour has receded south approximately 30 to 350 feet.

## Area C - Contour Comparison Results:

There is a 12 foot contour by the northern edge of the survey that does not exist on the chart and is part of a shoal within the survey area. The 18 foot contour has expanded north approximately 300 to 1700 feet. The 30 foot contour in the western corner generally agrees with the charted contour. The 30 foot contour in the northern region has receded north along its eastern and southern edge approximately 500 to 1000 feet. Along the eastern edge of that 30 foot contour, it has progressed south approximately 900 feet. The 60 foot contour along the southern edge of the survey boundary has progressed north approximately 150 to 350 feet from the charted contour. The 60 foot contour along the western edge of the survey boundary had moved west approximately 250 to 1900 feet from the charted contour.

## Area A - Sounding Comparison Results:

In areas where the contours have changed, as noted above, and where a feature was detected, soundings differ from the charted depths. In area A of F00763, soundings are generally in agreement within 1 to 5 feet of each other. Various soundings differ up to 15 feet, however these are typically areas with dynamic sandwaves. Depth differences are not biased in any particular direction to support a systematic error.

## Area B - Sounding Comparison Results:

In areas where the contours have changed, as noted above, and where a feature was detected, soundings differ from the charted depths. In area B of F00763, soundings are generally in agreement within 1 to 5 feet of each other. Various soundings differ up to 15 feet, however these are typically areas with dynamic sandwaves. Depth differences are not biased in any particular direction to support a systematic error.

## Area C - Sounding Comparison Results:

In areas where the contours have changed, as noted above, and where a feature was detected, soundings differ from the charted depths. In area C of F00763, soundings are generally in agreement within 1 to 5 feet of each other. Various soundings differ up to 15 feet, however these are typically areas with dynamic sandwaves. Depth differences are not biased in any particular direction to support a systematic error.

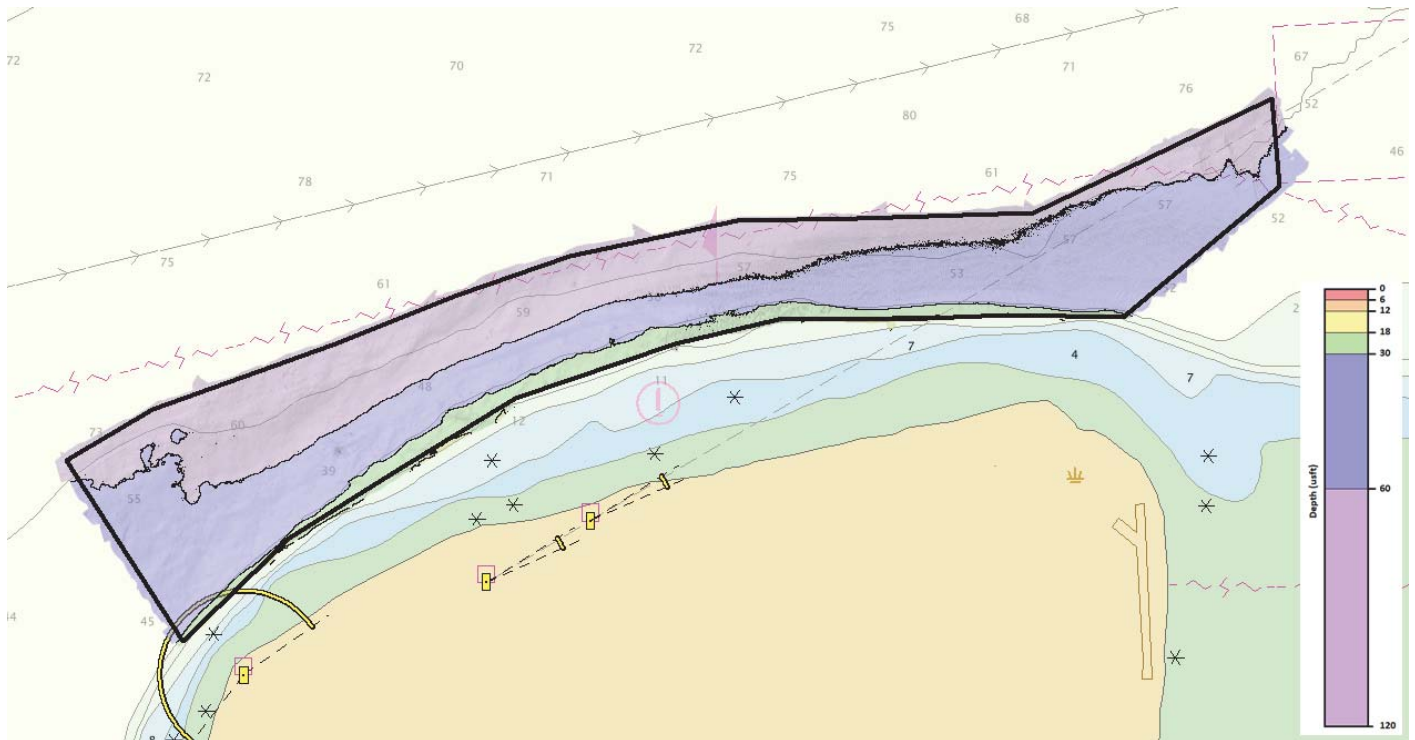


Figure 34: Area A of F00763 Contour Comparison (US5AK16M)

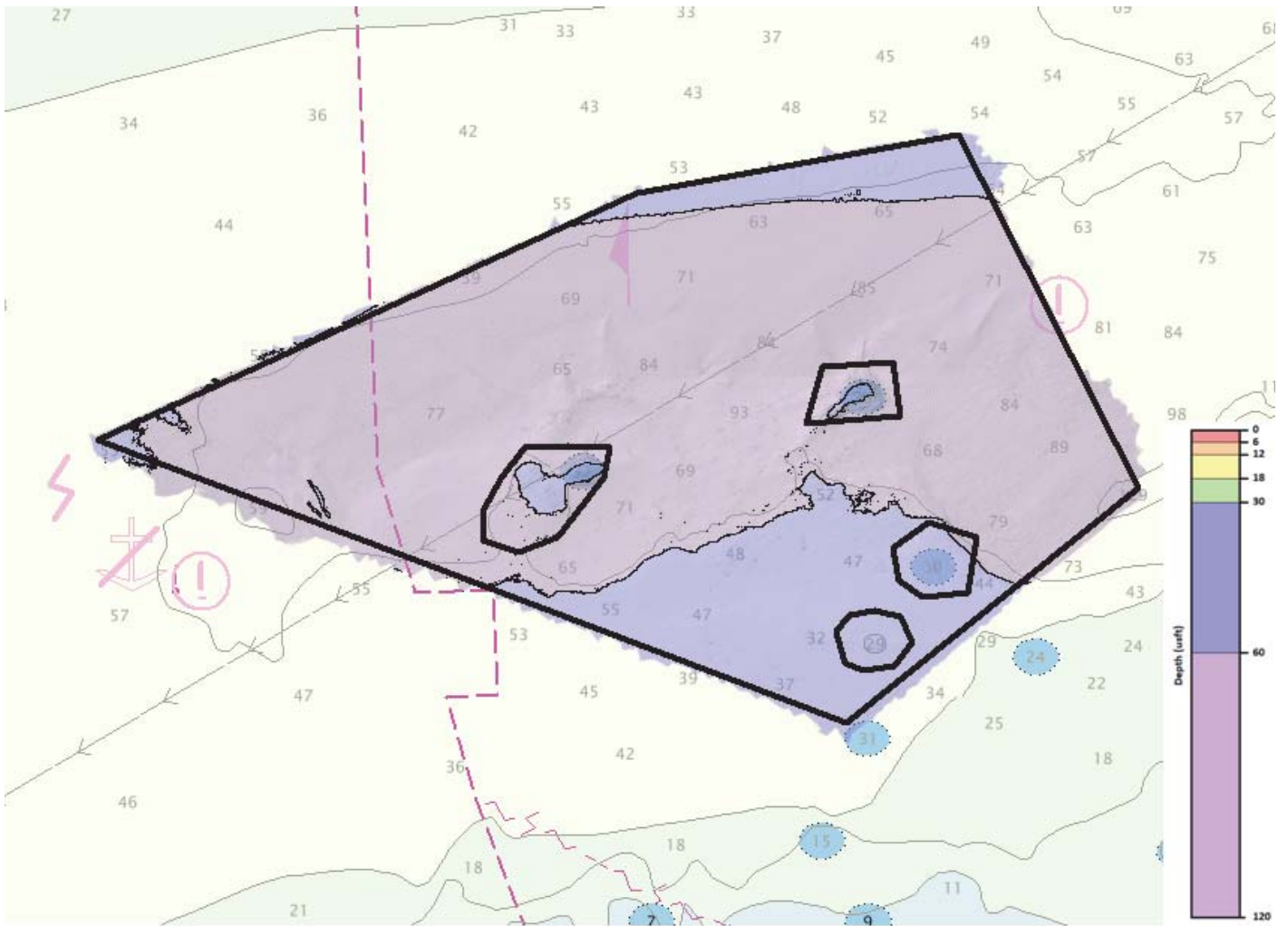


Figure 35: Area B of F00763 Contour Comparison (US5AK16M)



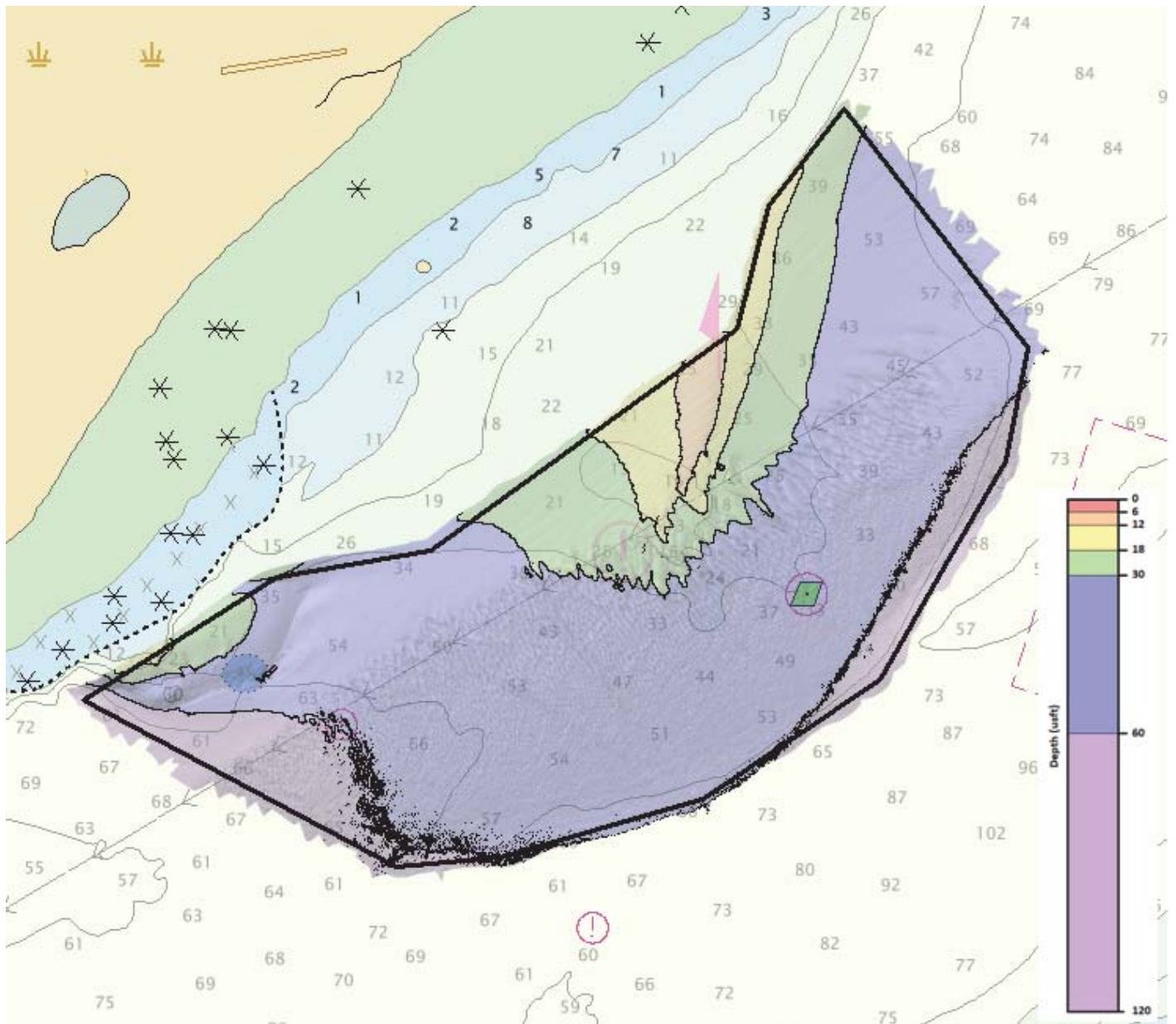


Figure 36: Area C of F00763 Contour Comparison (US5AK16M)

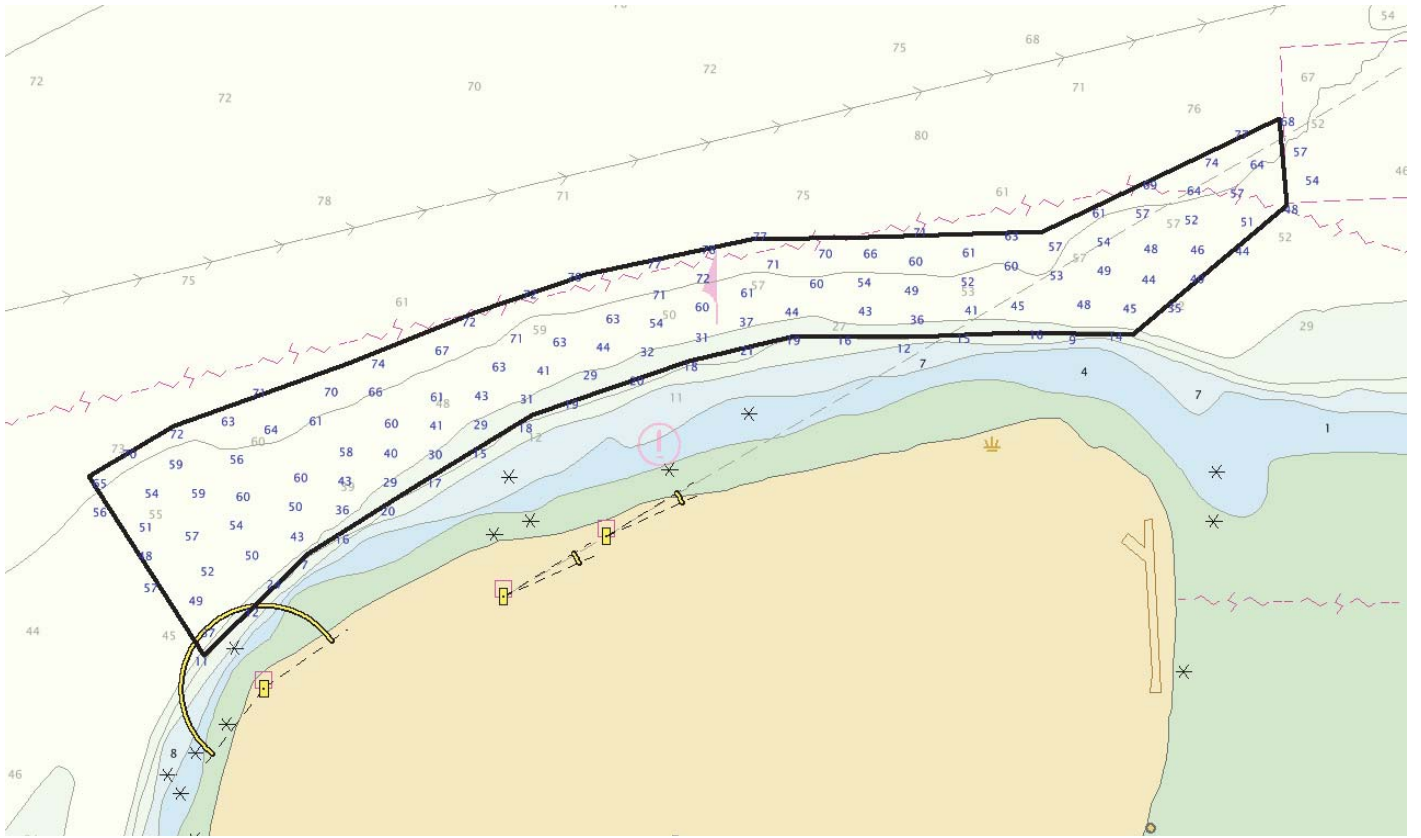
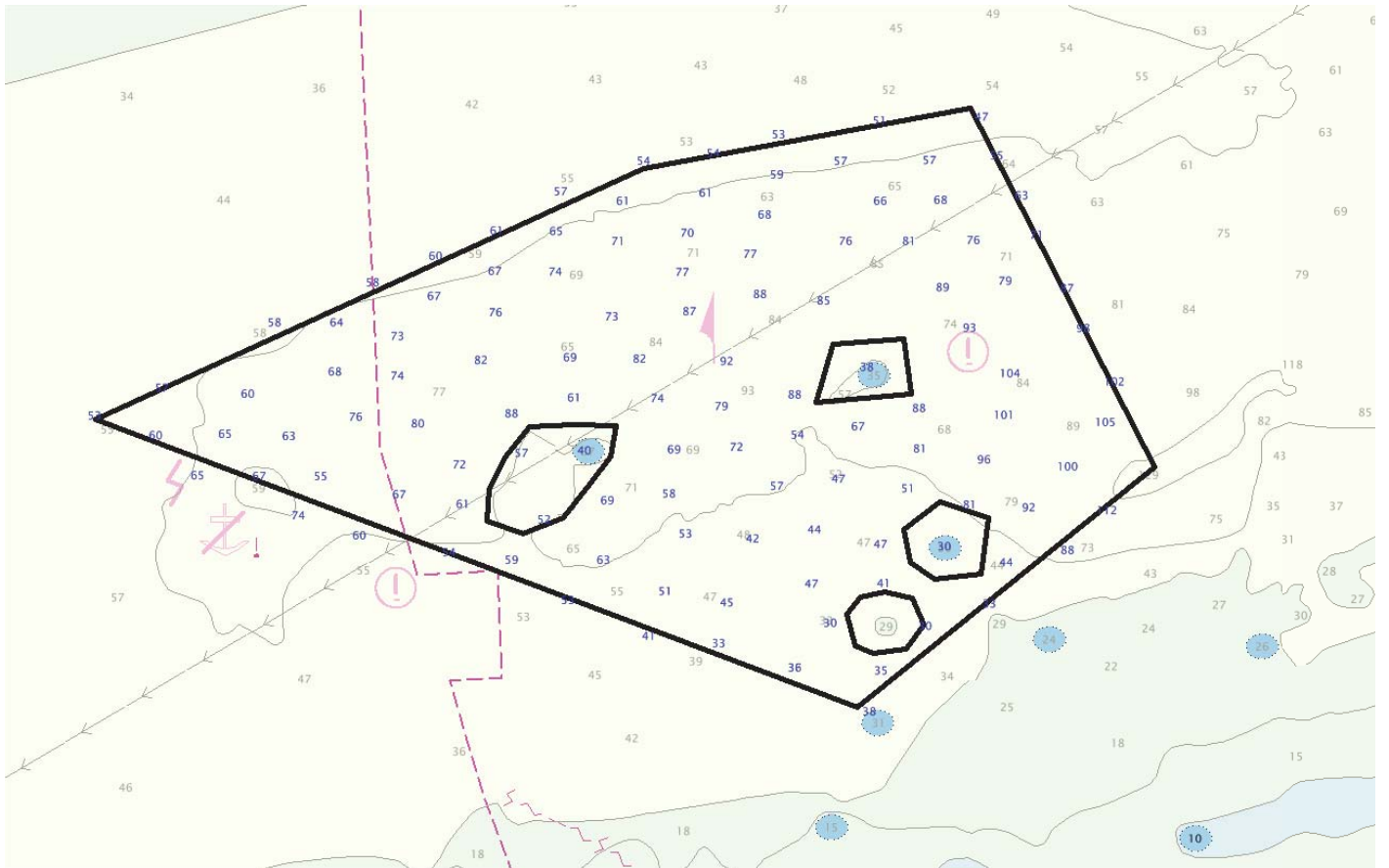


Figure 37: Area A of F00763 Sounding Comparison (US5AK16M)



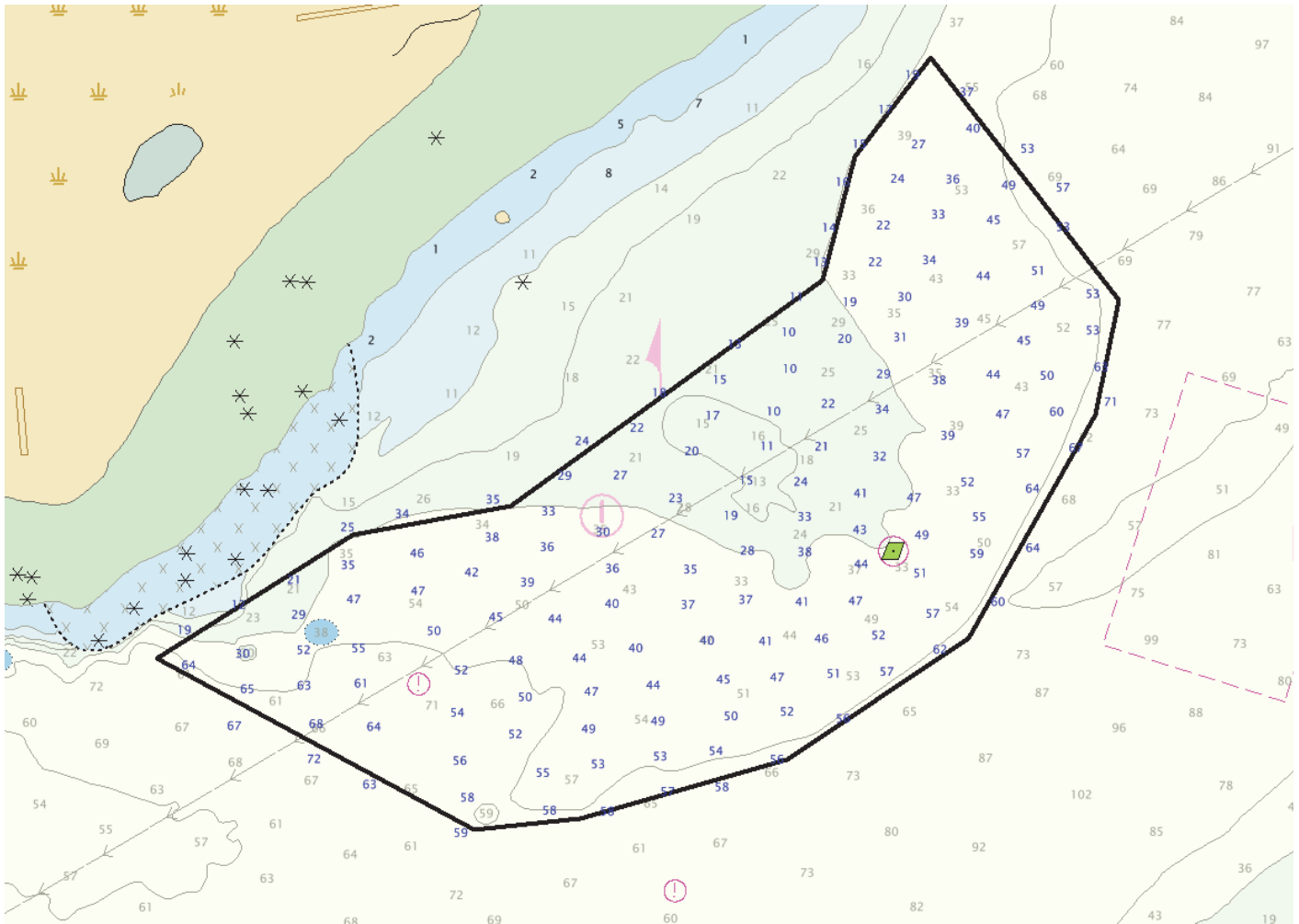


Figure 39: Area C of F00763 Sounding Comparison (US5AK16M)

### 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 were 4 charted features and 1 charted sounding assigned to F00763. The assigned features are retained in the Final Feature File (FFF). The assigned sounding was not included in the FFF per the investigation requirements listed in the CSF. Each feature in the FFF has been given a unique identifier in the "userid"

field of the .000 S-57 file (format 3XXX). Refer to the FFF for determinations and recommendations of each feature.

### **D.1.5 Uncharted Features**

There were 5 new, uncharted features found in F00763, 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 3XXX). 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:

<b>DTON Report Name</b>	<b>Date Submitted</b>
F00763_DtoN_01	2018-12-20
F00763_DtoN_02	2018-12-20
F00763_DtoN_03	2018-12-20
F00763_DtoN_05	2018-12-20
F00763_DtoN_06	2018-12-20

*Table 9: DTON Reports*

There were 5 DtoNs found in F00763, and added to 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 F00763\_DtoN\_XX). Refer to the FFF for determinations and recommendations 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**

No bottom samples were assigned to this survey.



## D.2 Additional Results

### D.2.1 Shoreline

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

### D.2.2 Prior Surveys

eTrac was contracted by USACE to perform a hydrographic survey in October 2018 in the vicinity of area C of F00763. A comparison was made between datasets in Qimera. An image of the difference surface between the October dataset and area C of F00763 is located below. In the difference surface, red represents accretion, blue represents erosion, and white represents agreement between the two surfaces. Example cross sections are provided following the surface images. The first cross section across the two areas is over hard material and bedrock, which shows excellent repeatability and agreement. The second cross section across the two areas is over soft transient material. Significant accretion can be seen in the McKenzie Pt. area. The material in this section of the survey area has been observed to change significantly within a single tide cycle.

*Pacific Hydrographic Branch notes that the hydrographic survey referenced in D.2.2 has not been through an NOS approved review process and the quality of the survey has not been determined.*

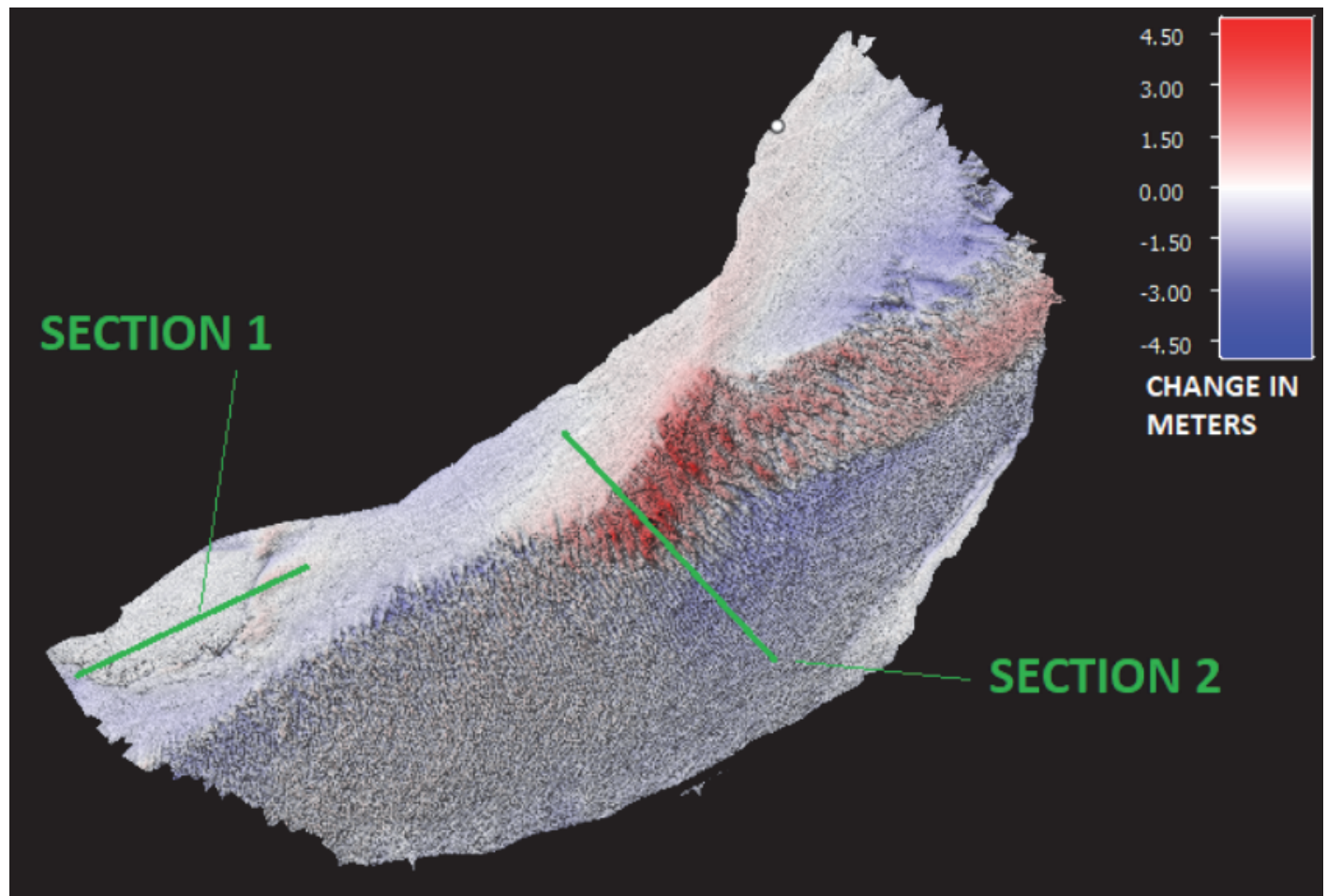
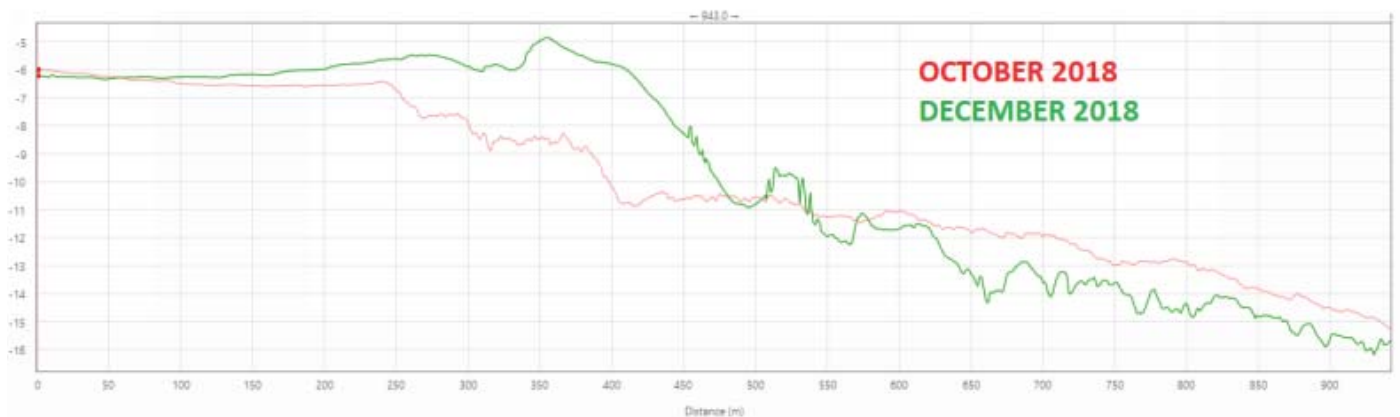


Figure 40: October 2018 versus December 2018



*Figure 41: Cross Section 1 over hard material*



*Figure 42: Cross section 2 over soft material*

### **D.2.3 Aids to Navigation**

No Aids to navigation (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**

No ferry routes or terminals exist for this survey.

**D.2.7 Platforms**

No platforms exist for this survey.

**D.2.8 Significant Features**

No significant features exist for this survey.

**D.2.9 Construction and Dredging**

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

**D.2.10 New Survey Recommendation**

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

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

Approver Name	Approver Title	Approval Date	Signature
David R. Neff, C.H.	VP of Survey, eTrac Inc.	02/05/2018	 



Isadora Kratchman &lt;izzy@etracinc.com&gt;

---

**S-P958-KR-18 Weekly Progress Report 12/10/2018 to 12/16/2018**

---

Isadora Kratchman &lt;izzy@etracinc.com&gt;

Mon, Dec 17, 2018 at 11:41 AM

To: meredith.payne@noaa.gov

Cc: Kathryn Pridgen - NOAA Federal &lt;kathryn.pridgen@noaa.gov&gt;, progress.sketches@noaa.gov, David Neff &lt;dave@etracinc.com&gt;, Lisa Diamond &lt;lisa@etracinc.com&gt;

Uploading to the google drive folder now

-Izzy

On Mon, Dec 17, 2018 at 11:37 AM Meredith Payne - NOAA Federal &lt;meredith.payne@noaa.gov&gt; wrote:

Please use the existing folder.

Thank you!

Meredith

On Mon, Dec 17, 2018 at 2:34 PM Isadora Kratchman &lt;izzy@etracinc.com&gt; wrote:

All,

Please find attached the weekly report detailing S-P958-KR-18 project completion through 12/16/2018. Also attached is a floating point raster of the data coverage.

Should we upload the report and floating point raster to the eTrac google drive folder that we have using for OPR-H355-KR-18 or will a new eTrac folder be created?

Best regards,

--

**Isadora Kratchman**

Hydrographic Surveyor

Mobile: (301) 706-9246

[www.etracinc.com](http://www.etracinc.com)

--

**Meredith C. Payne**

Physical Scientist,

Hydrographic Surveys Division Operations Branch

National Oceanic &amp; 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**

Hydrographic Surveyor

Mobile: (301) 706-9246

[www.etracinc.com](http://www.etracinc.com)



Isadora Kratchman &lt;izzy@etracinc.com&gt;

---

**F00763 DtoN 01 - 06**

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**Castle Parker - NOAA Federal** <castle.e.parker@noaa.gov>

Fri, Dec 21, 2018 at 9:42 AM

To: Grant Froelich - NOAA Federal &lt;grant.froelich@noaa.gov&gt;, Isadora Kratchman &lt;izzy@etracinc.com&gt;

Cc: Briana Hillstrom - NOAA Federal &lt;Briana.Hillstrom@noaa.gov&gt;

FYI, F00763 should be going to PHB rather than AHB. I have already processed the first DtoN submission. Reference Katy's response below.

Merry Christmas!

gp

*Castle Eugene Parker*

*NOAA Office of Coast Survey*

*Atlantic Hydrographic Branch*

*Hydrographic Team Lead / Physical Scientist*

[castle.e.parker@noaa.gov](mailto:castle.e.parker@noaa.gov)

*office (757) 364-7472*

**From:** Kathryn Pridgen - NOAA Federal <[kathryn.pridgen@noaa.gov](mailto:kathryn.pridgen@noaa.gov)>

**Sent:** Friday, December 21, 2018 12:34 PM

**To:** Castle Parker - NOAA Federal <[castle.e.parker@noaa.gov](mailto:castle.e.parker@noaa.gov)>

**Subject:** Re: FW: F00763 DtoN 01 - 06

Gene

This project is slated for PHB, survey tracker was wrong and has since been updated. I have also uploaded the Project Instructions to the FTP site.

katy

---

Kathryn "Katy" Pridgen

Physical Scientist

NOAA-HSD OPS

240-533-0033

[kathryn.pridgen@noaa.gov](mailto:kathryn.pridgen@noaa.gov)

On Fri, Dec 21, 2018 at 12:27 PM Castle Parker - NOAA Federal <[castle.e.parker@noaa.gov](mailto:castle.e.parker@noaa.gov)> wrote:

Hello again,

I searched for the Project Instructions and didn't find it, so will have to reach out to Katy P for a copy. Odd that PI lists PHB, but Survey Tracker lists AHB.

The space issue with images has been ongoing this year or since eTrac has been using Qimera. The number of features has been low so I just fixed it while review and generating reports. Understand about the delay factor with QPS ticket. Today I decided to tell you as it have been ongoing issue, not a show stopper, but requires a bit of manual manipulation.

On another note, have a joyous Holiday Season!

gp

*Castle Eugene Parker*

*NOAA Office of Coast Survey*

*Atlantic Hydrographic Branch*

*Hydrographic Team Lead / Physical Scientist*

[castle.e.parker@noaa.gov](mailto:castle.e.parker@noaa.gov)

*office (757) 364-7472*

**From:** Isadora Kratchman <[izzy@etracinc.com](mailto:izzy@etracinc.com)>

**Sent:** Friday, December 21, 2018 12:10 PM

**To:** Castle Parker - NOAA Federal <[castle.e.parker@noaa.gov](mailto:castle.e.parker@noaa.gov)>

**Cc:** David Neff <[dave@etracinc.com](mailto:dave@etracinc.com)>; Kathryn Pridgen - NOAA Federal <[kathryn.pridgen@noaa.gov](mailto:kathryn.pridgen@noaa.gov)>; Matthew Wilson <[matthew.wilson@qps-us.com](mailto:matthew.wilson@qps-us.com)>

**Subject:** Re: FW: F00763 DtoN 01 - 06

Gene,

Sorry about that. Our project instructions list PHB for the Assigned Processing Branch and for DtoN submission. I will send any future dangers to AHB.

I will put in a ticket with qimera about the space between the semi-colons. Has this been an issue with all of our submitted DtoN reports or just with this last one?

Best,

Izzy

On Fri, Dec 21, 2018 at 5:10 AM Castle Parker - NOAA Federal <[castle.e.parker@noaa.gov](mailto:castle.e.parker@noaa.gov)> wrote:

Good day,

I wanted to let you know that F00763 is slated for AHB submission, rather than PHB. I looked at Survey Tracker and the FE is assigned to AHB.

Related to the DtoN feature files, wanted to let you know that the image linking within the 'image' extended attribute is placing a space after the semi-colon (;) separating the multiple image files. The first image displays, but the additional images won't display due to the space in front of the image file name. Not sure where this is coming from, but would suspect related to Qimera attribution. To remedy this, all features are imported to a CARIS hob file so that I can attribute the 'onotes' and 'hsdrec,' and delete the space, then all images display.

Will be forwarding the DtoNs submission a bit later after completing the report generation.

Regards,

Gene

*Castle Eugene Parker*

*NOAA Office of Coast Survey*

*Atlantic Hydrographic Branch*

*Hydrographic Team Lead / Physical Scientist*

[castle.e.parker@noaa.gov](mailto:castle.e.parker@noaa.gov)

*office (757) 364-7472*

---

**From:** Grant Froelich <[grant.froelich@noaa.gov](mailto:grant.froelich@noaa.gov)>

**Sent:** Thursday, December 20, 2018 4:21 PM

**To:** \_NOS OCS HSD AHB Danger to Navigation <[ahb.dton@noaa.gov](mailto:ahb.dton@noaa.gov)>

**Subject:** Fwd: F00763 DtoN 01 - 06

Gene,

I think this email is meant for AHB.

grant

--

## Grant Froelich

Hydrographic Team Lead  
NOAA's National Ocean Service  
Office of Coast Survey, Hydrographic Surveys Division  
Pacific Hydrographic Branch, N/CS34  
7600 Sand Point Way N.E.  
Seattle, WA 98115-6349

w: (206)526-4374 | [grant.froelich@noaa.gov](mailto:grant.froelich@noaa.gov)

From: Isadora Kratchman <[izzy@etracinc.com](mailto:izzy@etracinc.com)>

Date: December 20, 2018 at 4:13:34 PM

To: Kathryn Pridgen - NOAA Federal <[kathryn.pridgen@noaa.gov](mailto:kathryn.pridgen@noaa.gov)>, [phb.dton@noaa.gov](mailto:phb.dton@noaa.gov) <[phb.dton@noaa.gov](mailto:phb.dton@noaa.gov)>

CC: David Neff <[dave@etracinc.com](mailto:dave@etracinc.com)>, Lisa Diamond <[lisa@etracinc.com](mailto:lisa@etracinc.com)>

Subject: F00763 DtoN 01 - 06

All,

Please find attached the standard DtoN package detailing F00763 DtoN 01, 02, 03, 04, 05, and 06.

All six DtoNs are rocks.

Best regards,

--

**Isadora Kratchman**

Hydrographic Surveyor

Mobile: (301) 706-9246

[www.etracinc.com](http://www.etracinc.com)

--

**Isadora Kratchman**

Hydrographic Surveyor

Mobile: (301) 706-9246

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---

**2 attachments**

 **F00763\_DtoNs\_1-6.zip**  
4970K

 **F00763 DtoNs #1 - #5 Submission to NDB email 12-21-18.pdf**  
5017K



Isadora Kratchman &lt;izzy@etracinc.com&gt;

---

**F00763 DtoNs #1 - #5 Submission to NDB**

---

**OCS NDB - NOAA Service Account** <ocs.ndb@noaa.gov>

Fri, Dec 21, 2018 at 12:24 PM

To: Castle E Parker &lt;Castle.E.Parker@noaa.gov&gt;

Cc: Briana Hillstrom - NOAA Federal &lt;Briana.Hillstrom@noaa.gov&gt;, Kathryn Pridgen - NOAA Federal &lt;kathryn.pridgen@noaa.gov&gt;, Jacklyn James - NOAA Federal &lt;Jacklyn.C.James@noaa.gov&gt;, David Neff &lt;dave@etracinc.com&gt;, Isadora Kratchman &lt;izzy@etracinc.com&gt;, Lisa Diamond &lt;lisa@etracinc.com&gt;, \_NOS OCS PBA Branch &lt;ocs.pba@noaa.gov&gt;, \_NOS OCS PBB Branch &lt;ocs.pbb@noaa.gov&gt;, \_NOS OCS PBC Branch &lt;ocs.pbc@noaa.gov&gt;, \_NOS OCS PBD Branch &lt;ocs.pbd@noaa.gov&gt;, \_NOS OCS PBE Branch &lt;ocs.pbe@noaa.gov&gt;, \_NOS OCS PBG Branch &lt;ocs.pbg@noaa.gov&gt;, Charles Porter - NOAA Federal &lt;charles.porter@noaa.gov&gt;, Chris Libeau &lt;Chris.Libeau@noaa.gov&gt;, James M Crocker &lt;James.M.Crocker@noaa.gov&gt;, Ken Forster &lt;Ken.Forster@noaa.gov&gt;, Kevin Jett - NOAA Federal &lt;kevin.jett@noaa.gov&gt;, Matt Kroll &lt;Matt.Kroll@noaa.gov&gt;, Michael Gaeta &lt;Michael.Gaeta@noaa.gov&gt;, NSD Coast Pilot &lt;coast.pilot@noaa.gov&gt;, PHB Chief &lt;PHB.Chief@noaa.gov&gt;, Tara Wallace &lt;Tara.Wallace@noaa.gov&gt;

DD-30258 has been registered by the Nautical Data Branch and directed to Products Branch A for processing.

The DtoNs reported are several rocks located in the vicinity of Anchorage, AK.

The following charts have been assigned to the record:

16665 kapp 2856  
16665 kapp 2857  
16663 kapp 2855  
16660 kapp 2579

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

US5AK16M  
US4AK15M  
US3AK1DM

References:

F00763  
S-OPR-P958-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: Fri, Dec 21, 2018 at 10:19 AM

Subject: F00763 DtoNs #1 - #5 Submission to NDB

To: OCS NDB - NOAA Service Account <ocs.ndb@noaa.gov>

Cc: Briana Hillstrom - NOAA Federal <Briana.Hillstrom@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, David Neff <dave@etracinc.com>, Isadora Kratchman <izzy@etracinc.com>, Lisa Diamond <lisa@etracinc.com>

Good day,

Please find attached compressed file for F00763 DtoN Report #1 - #6, containing five rocks (UWTROC) that are shoaler than the current charted depths. 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](mailto:castle.e.parker@noaa.gov)

*office (757) 364-7472*

---

 **F00763\_DtoNs\_1-6.zip**

4970K



Isadora Kratchman &lt;izzy@etracinc.com&gt;

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## S-P958-KR-18 Weekly Progress Report 12/17/2018 to 12/23//2018

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**Lisa Diamond** <lisa@etracinc.com>

Mon, Dec 31, 2018 at 3:57 PM

To: Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>

Cc: progress.sketches@noaa.gov, Isadora Kratchman <izzy@etracinc.com>, David Neff <david@etracinc.com>, Verena Kellner <verena@etracinc.com>

All,

Please find attached the weekly report detailing S-P958-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.

--

**Lisa Diamond**

Hydrographic Surveyor

Mobile: (847) 414-6783

[www.etracinc.com](http://www.etracinc.com)



**S\_P958\_KR\_18\_-December\_23.pdf**

937K



Isadora Kratchman &lt;izzy@etracinc.com&gt;

---

## S-P958-KR-18 December monthly Report

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

Mon, Jan 7, 2019 at 5:22 PM

To: Kathryn Pridgen - NOAA Federal &lt;kathryn.pridgen@noaa.gov&gt;

Cc: David Neff &lt;david@etracinc.com&gt;, Lisa Diamond &lt;lisa@etracinc.com&gt;

Kathryn,

Attached is our December monthly report for S-P958-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](http://www.etracinc.com)**eTrac\_Productivity Report\_S\_P958\_KR\_18\_December\_2018.xlsx**

106K



Isadora Kratchman &lt;izzy@etracinc.com&gt;

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**F00763 DtoN 07**

---

**Olivia Hauser - NOAA Federal** <olivia.hauser@noaa.gov>

Thu, Jan 17, 2019 at 3:03 PM

To: Isadora Kratchman &lt;izzy@etracinc.com&gt;

Cc: Kathryn Pridgen - NOAA Federal &lt;kathryn.pridgen@noaa.gov&gt;, \_NOS OCS HSD PHB Danger to Navigation &lt;phb.dton@noaa.gov&gt;, Lisa Diamond &lt;lisa@etracinc.com&gt;, David Neff &lt;david@etracinc.com&gt;

Thank you for your submission, Isadora. On closer review, the feature in question is not an immediate DTON and will be processed when the funding has been appropriated and the government has been re-opened. Thank you for submitting this as soon as it was identified. Have a good evening.

V/R, Olivia

On Wed, Jan 16, 2019 at 3:14 PM Isadora Kratchman &lt;izzy@etracinc.com&gt; wrote:

All,

Please find attached the standard DtoN package detailing F00763 DtoN 07.

F00763 DtoN 07 is an uncharted rock.

Best regards,

--

**Isadora Kratchman**

Hydrographic Surveyor

Mobile: (301) 706-9246

[www.etracinc.com](http://www.etracinc.com)

--

-----  
CDR Olivia Hauser, NOAA  
Chief, Pacific Hydrographic Branch  
Office: 206-526-6835  
Cell: 302-229-3368  
NOAA/NOS/OCS/HSD/PHB  
[olivia.hauser@noaa.gov](mailto:olivia.hauser@noaa.gov)



Isadora Kratchman &lt;izzy@etracinc.com&gt;

---

**F00763 DtoN 08 and DtoN 09**

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**Olivia Hauser - NOAA Federal** <olivia.hauser@noaa.gov>

Thu, Jan 24, 2019 at 2:39 PM

To: Isadora Kratchman &lt;izzy@etracinc.com&gt;

Cc: Kathryn Pridgen - NOAA Federal &lt;kathryn.pridgen@noaa.gov&gt;, \_NOS OCS HSD PHB Danger to Navigation &lt;phb.dton@noaa.gov&gt;, Lisa Diamond &lt;lisa@etracinc.com&gt;, David Neff &lt;dave@etracinc.com&gt;

Thank you for your submission, Isadora. On closer review, the feature in question is not an immediate DTON and will be processed when the funding has been appropriated and the government has been re-opened. Thank you for submitting this as soon as it was identified. Have a good evening.

V/R, Olivia

On Wed, Jan 23, 2019 at 1:55 PM Isadora Kratchman &lt;izzy@etracinc.com&gt; wrote:

All,

Please find attached the standard DtoN package detailing F00763 DtoN 08 and DtoN 09.

Both DtoN 08 and DtoN 09 are soundings.

Best regards,

--

**Isadora Kratchman**

Hydrographic Surveyor

Mobile: (301) 706-9246

[www.etracinc.com](http://www.etracinc.com)

--

-----  
CDR Olivia Hauser, NOAA  
Chief, Pacific Hydrographic Branch  
Office: 206-526-6835  
Cell: 302-229-3368  
NOAA/NOS/OCS/HSD/PHB  
[olivia.hauser@noaa.gov](mailto:olivia.hauser@noaa.gov)





Isadora Kratchman &lt;izzy@etracinc.com&gt;

---

**F00763 DtoN 07**

---

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

Fri, Feb 1, 2019 at 2:59 PM

To: Olivia Hauser - NOAA Federal &lt;olivia.hauser@noaa.gov&gt;

Cc: Kathryn Pridgen - NOAA Federal &lt;kathryn.pridgen@noaa.gov&gt;, \_NOS OCS HSD PHB Danger to Navigation &lt;phb.dton@noaa.gov&gt;, Lisa Diamond &lt;lisa@etracinc.com&gt;, David Neff &lt;david@etracinc.com&gt;

Olivia,

It was great to talk with you today. Just to clarify, F00763 DtoN 07, DtoN 08, and DtoN 09, that were not immediate, have been further reviewed by PHB, and declared not to be dangers. Correct?

If so, because they are natural features we will not include them in our FFF. In reference to HSSD 7.3.2 New Features bullet point 2.

Best Regards,  
Izzy

On Thu, Jan 17, 2019 at 3:03 PM Olivia Hauser - NOAA Federal <olivia.hauser@noaa.gov> wrote:

Thank you for your submission, Isadora. On closer review, the feature in question is not an immediate DTON and will be processed when the funding has been appropriated and the government has been re-opened. Thank you for submitting this as soon as it was identified. Have a good evening.

V/R, Olivia

On Wed, Jan 16, 2019 at 3:14 PM Isadora Kratchman <izzy@etracinc.com> wrote:

All,

Please find attached the standard DtoN package detailing F00763 DtoN 07.

F00763 DtoN 07 is an uncharted rock.

Best regards,

--

**Isadora Kratchman**

Hydrographic Surveyor

Mobile: (301) 706-9246

[www.etracinc.com](http://www.etracinc.com)

--

-----  
CDR Olivia Hauser, NOAA  
Chief, Pacific Hydrographic Branch  
Office: 206-526-6835  
Cell: 302-229-3368  
NOAA/NOS/OCS/HSD/PHB  
[olivia.hauser@noaa.gov](mailto:olivia.hauser@noaa.gov)

--

**Isadora Kratchman**

Hydrographic Surveyor

Mobile: (301) 706-9246

[www.etracinc.com](http://www.etracinc.com)



Isadora Kratchman &lt;izzy@etracinc.com&gt;

---

## F00764 DtoN 01 and DtoN 02

---

**Grant Froelich** <grant.froelich@noaa.gov>

Fri, Feb 1, 2019 at 9:41 AM

To: Isadora Kratchman &lt;izzy@etracinc.com&gt;, Kathryn Pridgen &lt;kathryn.pridgen@noaa.gov&gt;, phb.dton@noaa.gov

Cc: lisa@etracinc.com, David Neff &lt;david@etracinc.com&gt;

Thank you for your submission. After review of these features it is determined that, when evaluated in the context of the largest scale chart, they do not pose an imminent threat to surface navigation . They will be corrected on the chart through the standard chart update process when the survey is submitted to PHB.

thanks  
grant

--  
**Grant Froelich**

Hydrographic Team Lead  
NOAA's National Ocean Service  
Office of Coast Survey, Hydrographic Surveys Division  
Pacific Hydrographic Branch, N/CS34  
7600 Sand Point Way N.E.  
Seattle, WA 98115-6349

w: (206)526-4374 | grant.froelich@noaa.gov

On 2/1/2019 9:21:05 AM, Isadora Kratchman <izzy@etracinc.com> wrote:

All,

Please find attached the standard DtoN package detailing F00764 DtoN 01 and DtoN 02.

Both DtoN 01 and DtoN 02 are rocks

Best regards,

--

**Isadora Kratchman**

Hydrographic Surveyor  
Mobile: (301) 706-9246  
[www.etracinc.com](http://www.etracinc.com)



Isadora Kratchman &lt;izzy@etracinc.com&gt;

---

## Data Artifact Cleaning

---

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

Mon, Feb 4, 2019 at 12:13 PM

To: Lisa Diamond &lt;lisa@etracinc.com&gt;, Isadora Kratchman &lt;izzy@etracinc.com&gt;

Correspondence about the artifacts.

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

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

Date: Mon, Feb 4, 2019 at 12:12 PM

Subject: Re: Data Artifact Cleaning

To: Kathryn Pridgen - NOAA Federal &lt;kathryn.pridgen@noaa.gov&gt;

Understood Kathryn, we will proceed with cleaning the artifacts out of the data.

Dave

On Mon, Feb 4, 2019 at 12:10 PM Kathryn Pridgen - NOAA Federal &lt;kathryn.pridgen@noaa.gov&gt; wrote:

Dave,

Please clean all data artifacts from the surface and deliver as is (with holidays). I will figure out how to waive the holiday requirement for this sheet.

Katy

---

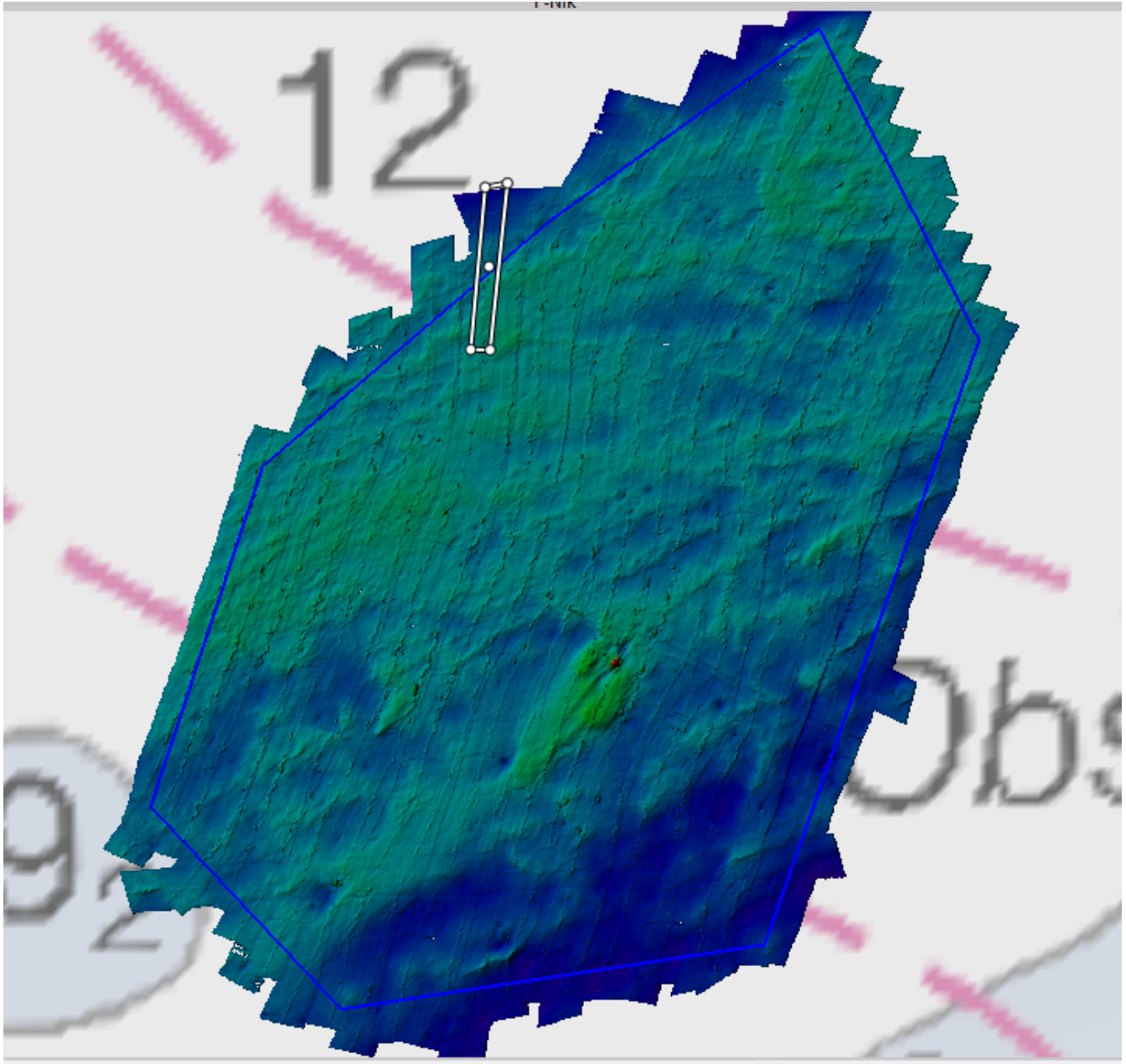
Kathryn "Katy" Pridgen  
Physical Scientist  
NOAA-HSD OPS  
240-533-0033  
[kathryn.pridgen@noaa.gov](mailto:kathryn.pridgen@noaa.gov)

On Mon, Feb 4, 2019 at 11:45 AM David Neff &lt;david@etracinc.com&gt; wrote:

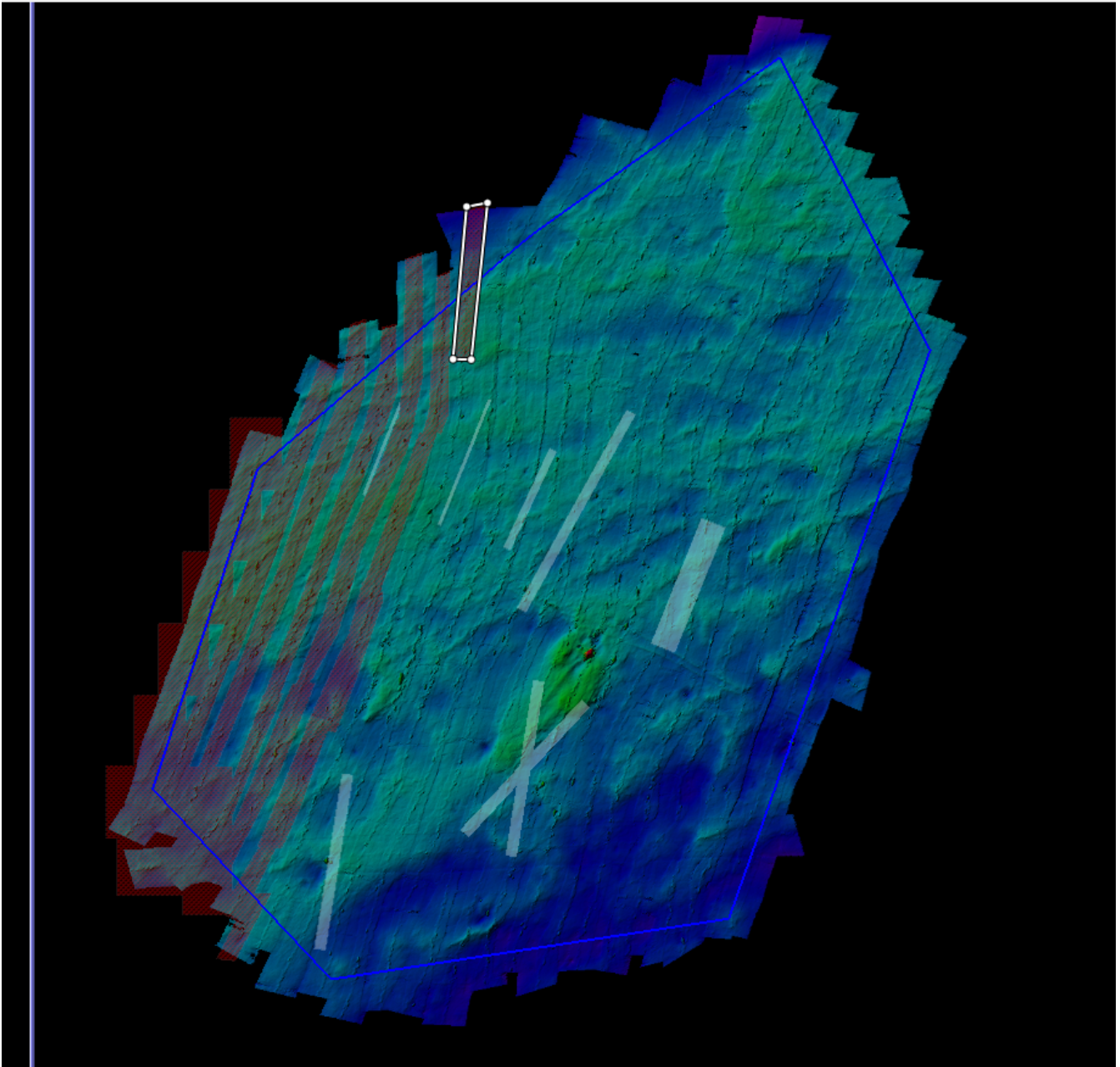
Hi Kathryn,

To follow up on your request in our meeting on Friday to quantify the amount of time necessary to clean out the data artifact present in a portion of our Nikiski data.

Surface Before Cleaning

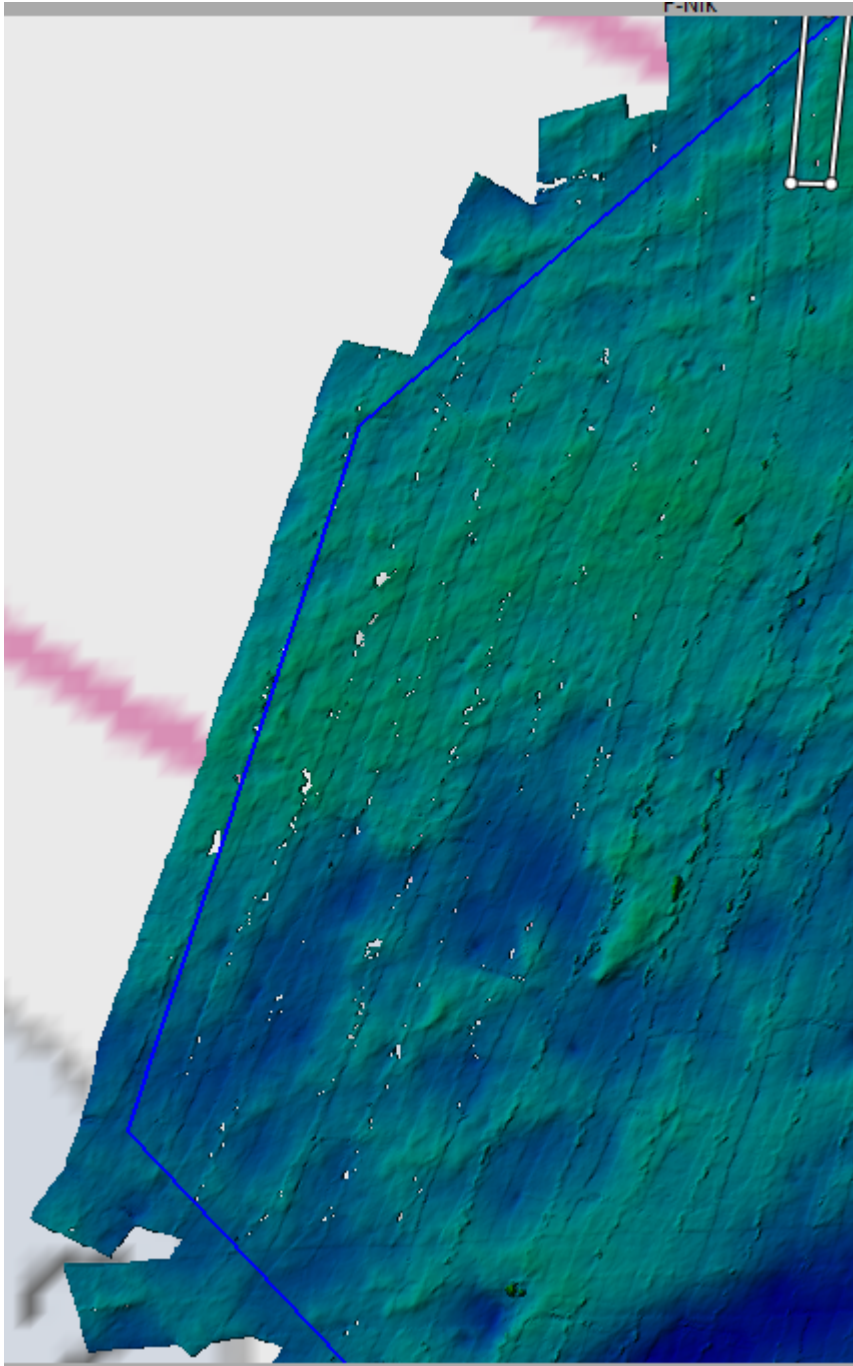


Cleaning completed after 1 hour of cleaning (Red Areas)



Updated surface after 1 hour of cleaning





We believe we would be able to clean out this artifact within 3 days. Not a significant undertaking.

--

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

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

Mobile: (415) 517-0020

[www.etracinc.com](http://www.etracinc.com)



Isadora Kratchman &lt;izzy@etracinc.com&gt;

---

**F00763 DtoN 01 - 06**

---

**Castle Parker - NOAA Federal** <castle.e.parker@noaa.gov>

Fri, Dec 21, 2018 at 9:42 AM

To: Grant Froelich - NOAA Federal &lt;grant.froelich@noaa.gov&gt;, Isadora Kratchman &lt;izzy@etracinc.com&gt;

Cc: Briana Hillstrom - NOAA Federal &lt;Briana.Hillstrom@noaa.gov&gt;

FYI, F00763 should be going to PHB rather than AHB. I have already processed the first DtoN submission. Reference Katy's response below.

Merry Christmas!

gp

*Castle Eugene Parker*

*NOAA Office of Coast Survey*

*Atlantic Hydrographic Branch*

*Hydrographic Team Lead / Physical Scientist*

[castle.e.parker@noaa.gov](mailto:castle.e.parker@noaa.gov)

*office (757) 364-7472*

**From:** Kathryn Pridgen - NOAA Federal <[kathryn.pridgen@noaa.gov](mailto:kathryn.pridgen@noaa.gov)>

**Sent:** Friday, December 21, 2018 12:34 PM

**To:** Castle Parker - NOAA Federal <[castle.e.parker@noaa.gov](mailto:castle.e.parker@noaa.gov)>

**Subject:** Re: FW: F00763 DtoN 01 - 06

Gene

This project is slated for PHB, survey tracker was wrong and has since been updated. I have also uploaded the Project Instructions to the FTP site.

katy

---

Kathryn "Katy" Pridgen

Physical Scientist

NOAA-HSD OPS

240-533-0033



[kathryn.pridgen@noaa.gov](mailto:kathryn.pridgen@noaa.gov)

On Fri, Dec 21, 2018 at 12:27 PM Castle Parker - NOAA Federal <[castle.e.parker@noaa.gov](mailto:castle.e.parker@noaa.gov)> wrote:

Hello again,

I searched for the Project Instructions and didn't find it, so will have to reach out to Katy P for a copy. Odd that PI lists PHB, but Survey Tracker lists AHB.

The space issue with images has been ongoing this year or since eTrac has been using Qimera. The number of features has been low so I just fixed it while review and generating reports. Understand about the delay factor with QPS ticket. Today I decided to tell you as it have been ongoing issue, not a show stopper, but requires a bit of manual manipulation.

On another note, have a joyous Holiday Season!

gp

*Castle Eugene Parker*

*NOAA Office of Coast Survey*

*Atlantic Hydrographic Branch*

*Hydrographic Team Lead / Physical Scientist*

[castle.e.parker@noaa.gov](mailto:castle.e.parker@noaa.gov)

*office (757) 364-7472*

**From:** Isadora Kratchman <[izzy@etracinc.com](mailto:izzy@etracinc.com)>

**Sent:** Friday, December 21, 2018 12:10 PM

**To:** Castle Parker - NOAA Federal <[castle.e.parker@noaa.gov](mailto:castle.e.parker@noaa.gov)>

**Cc:** David Neff <[dave@etracinc.com](mailto:dave@etracinc.com)>; Kathryn Pridgen - NOAA Federal <[kathryn.pridgen@noaa.gov](mailto:kathryn.pridgen@noaa.gov)>; Matthew Wilson <[matthew.wilson@qps-us.com](mailto:matthew.wilson@qps-us.com)>

**Subject:** Re: FW: F00763 DtoN 01 - 06

Gene,

Sorry about that. Our project instructions list PHB for the Assigned Processing Branch and for DtoN submission. I will send any future dangers to AHB.

I will put in a ticket with qimera about the space between the semi-colons. Has this been an issue with all of our submitted DtoN reports or just with this last one?

Best,

Izzy

On Fri, Dec 21, 2018 at 5:10 AM Castle Parker - NOAA Federal <[castle.e.parker@noaa.gov](mailto:castle.e.parker@noaa.gov)> wrote:

Good day,

I wanted to let you know that F00763 is slated for AHB submission, rather than PHB. I looked at Survey Tracker and the FE is assigned to AHB.

Related to the DtoN feature files, wanted to let you know that the image linking within the 'image' extended attribute is placing a space after the semi-colon (;) separating the multiple image files. The first image displays, but the additional images won't display due to the space in front of the image file name. Not sure where this is coming from, but would suspect related to Qimera attribution. To remedy this, all features are imported to a CARIS hob file so that I can attribute the 'onotes' and 'hsdrec,' and delete the space, then all images display.

Will be forwarding the DtoNs submission a bit later after completing the report generation.

Regards,

Gene

*Castle Eugene Parker*

*NOAA Office of Coast Survey*

*Atlantic Hydrographic Branch*

*Hydrographic Team Lead / Physical Scientist*

[castle.e.parker@noaa.gov](mailto:castle.e.parker@noaa.gov)

*office (757) 364-7472*

---

**From:** Grant Froelich <[grant.froelich@noaa.gov](mailto:grant.froelich@noaa.gov)>

**Sent:** Thursday, December 20, 2018 4:21 PM

**To:** \_NOS OCS HSD AHB Danger to Navigation <[ahb.dton@noaa.gov](mailto:ahb.dton@noaa.gov)>

**Subject:** Fwd: F00763 DtoN 01 - 06

Gene,

I think this email is meant for AHB.

grant

--

## Grant Froelich

Hydrographic Team Lead  
NOAA's National Ocean Service  
Office of Coast Survey, Hydrographic Surveys Division  
Pacific Hydrographic Branch, N/CS34  
7600 Sand Point Way N.E.  
Seattle, WA 98115-6349

w: (206)526-4374 | [grant.froelich@noaa.gov](mailto:grant.froelich@noaa.gov)

From: Isadora Kratchman <[izzy@etracinc.com](mailto:izzy@etracinc.com)>

Date: December 20, 2018 at 4:13:34 PM

To: Kathryn Pridgen - NOAA Federal <[kathryn.pridgen@noaa.gov](mailto:kathryn.pridgen@noaa.gov)>, [phb.dton@noaa.gov](mailto:phb.dton@noaa.gov) <[phb.dton@noaa.gov](mailto:phb.dton@noaa.gov)>

CC: David Neff <[dave@etracinc.com](mailto:dave@etracinc.com)>, Lisa Diamond <[lisa@etracinc.com](mailto:lisa@etracinc.com)>

Subject: F00763 DtoN 01 - 06

All,

Please find attached the standard DtoN package detailing F00763 DtoN 01, 02, 03, 04, 05, and 06.

All six DtoNs are rocks.

Best regards,

--

**Isadora Kratchman**

Hydrographic Surveyor

Mobile: (301) 706-9246

[www.etracinc.com](http://www.etracinc.com)

--

**Isadora Kratchman**

Hydrographic Surveyor

Mobile: (301) 706-9246

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---

**2 attachments**

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 **F00763 DtoNs #1 - #5 Submission to NDB email 12-21-18.pdf**  
5017K



Isadora Kratchman &lt;izzy@etracinc.com&gt;

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**F00763 DtoN 08 and DtoN 09**

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**Olivia Hauser - NOAA Federal** <olivia.hauser@noaa.gov>

Thu, Jan 24, 2019 at 2:39 PM

To: Isadora Kratchman &lt;izzy@etracinc.com&gt;

Cc: Kathryn Pridgen - NOAA Federal &lt;kathryn.pridgen@noaa.gov&gt;, \_NOS OCS HSD PHB Danger to Navigation &lt;phb.dton@noaa.gov&gt;, Lisa Diamond &lt;lisa@etracinc.com&gt;, David Neff &lt;dave@etracinc.com&gt;

Thank you for your submission, Isadora. On closer review, the feature in question is not an immediate DTON and will be processed when the funding has been appropriated and the government has been re-opened. Thank you for submitting this as soon as it was identified. Have a good evening.

V/R, Olivia

On Wed, Jan 23, 2019 at 1:55 PM Isadora Kratchman &lt;izzy@etracinc.com&gt; wrote:

All,

Please find attached the standard DtoN package detailing F00763 DtoN 08 and DtoN 09.

Both DtoN 08 and DtoN 09 are soundings.

Best regards,

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**Isadora Kratchman**

Hydrographic Surveyor

Mobile: (301) 706-9246

[www.etracinc.com](http://www.etracinc.com)

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CDR Olivia Hauser, NOAA  
Chief, Pacific Hydrographic Branch  
Office: 206-526-6835  
Cell: 302-229-3368  
NOAA/NOS/OCS/HSD/PHB  
[olivia.hauser@noaa.gov](mailto:olivia.hauser@noaa.gov)



Isadora Kratchman &lt;izzy@etracinc.com&gt;

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**F00763 DtoN 07**

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

Fri, Feb 1, 2019 at 2:59 PM

To: Olivia Hauser - NOAA Federal &lt;olivia.hauser@noaa.gov&gt;

Cc: Kathryn Pridgen - NOAA Federal &lt;kathryn.pridgen@noaa.gov&gt;, \_NOS OCS HSD PHB Danger to Navigation &lt;phb.dton@noaa.gov&gt;, Lisa Diamond &lt;lisa@etracinc.com&gt;, David Neff &lt;david@etracinc.com&gt;

Olivia,

It was great to talk with you today. Just to clarify, F00763 DtoN 07, DtoN 08, and DtoN 09, that were not immediate, have been further reviewed by PHB, and declared not to be dangers. Correct?

If so, because they are natural features we will not include them in our FFF. In reference to HSSD 7.3.2 New Features bullet point 2.

Best Regards,  
Izzy

On Thu, Jan 17, 2019 at 3:03 PM Olivia Hauser - NOAA Federal <olivia.hauser@noaa.gov> wrote:

Thank you for your submission, Isadora. On closer review, the feature in question is not an immediate DTON and will be processed when the funding has been appropriated and the government has been re-opened. Thank you for submitting this as soon as it was identified. Have a good evening.

V/R, Olivia

On Wed, Jan 16, 2019 at 3:14 PM Isadora Kratchman <izzy@etracinc.com> wrote:

All,

Please find attached the standard DtoN package detailing F00763 DtoN 07.

F00763 DtoN 07 is an uncharted rock.

Best regards,

--

**Isadora Kratchman**

Hydrographic Surveyor

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[olivia.hauser@noaa.gov](mailto:olivia.hauser@noaa.gov)

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Isadora Kratchman &lt;izzy@etracinc.com&gt;

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**F00763 DtoNs #1 - #5 Submission to NDB**

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**OCS NDB - NOAA Service Account** <ocs.ndb@noaa.gov>

Fri, Dec 21, 2018 at 12:24 PM

To: Castle E Parker &lt;Castle.E.Parker@noaa.gov&gt;

Cc: Briana Hillstrom - NOAA Federal &lt;Briana.Hillstrom@noaa.gov&gt;, Kathryn Pridgen - NOAA Federal &lt;kathryn.pridgen@noaa.gov&gt;, Jacklyn James - NOAA Federal &lt;Jacklyn.C.James@noaa.gov&gt;, David Neff &lt;dave@etracinc.com&gt;, Isadora Kratchman &lt;izzy@etracinc.com&gt;, Lisa Diamond &lt;lisa@etracinc.com&gt;, \_NOS OCS PBA Branch &lt;ocs.pba@noaa.gov&gt;, \_NOS OCS PBB Branch &lt;ocs.pbb@noaa.gov&gt;, \_NOS OCS PBC Branch &lt;ocs.pbc@noaa.gov&gt;, \_NOS OCS PBD Branch &lt;ocs.pbd@noaa.gov&gt;, \_NOS OCS PBE Branch &lt;ocs.pbe@noaa.gov&gt;, \_NOS OCS PBG Branch &lt;ocs.pbg@noaa.gov&gt;, Charles Porter - NOAA Federal &lt;charles.porter@noaa.gov&gt;, Chris Libeau &lt;Chris.Libeau@noaa.gov&gt;, James M Crocker &lt;James.M.Crocker@noaa.gov&gt;, Ken Forster &lt;Ken.Forster@noaa.gov&gt;, Kevin Jett - NOAA Federal &lt;kevin.jett@noaa.gov&gt;, Matt Kroll &lt;Matt.Kroll@noaa.gov&gt;, Michael Gaeta &lt;Michael.Gaeta@noaa.gov&gt;, NSD Coast Pilot &lt;coast.pilot@noaa.gov&gt;, PHB Chief &lt;PHB.Chief@noaa.gov&gt;, Tara Wallace &lt;Tara.Wallace@noaa.gov&gt;

DD-30258 has been registered by the Nautical Data Branch and directed to Products Branch A for processing.

The DtoNs reported are several rocks located in the vicinity of Anchorage, AK.

The following charts have been assigned to the record:

16665 kapp 2856  
16665 kapp 2857  
16663 kapp 2855  
16660 kapp 2579

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

US5AK16M  
US4AK15M  
US3AK1DM

References:

F00763  
S-OPR-P958-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: Fri, Dec 21, 2018 at 10:19 AM

Subject: F00763 DtoNs #1 - #5 Submission to NDB

To: OCS NDB - NOAA Service Account <ocs.ndb@noaa.gov>

Cc: Briana Hillstrom - NOAA Federal <Briana.Hillstrom@noaa.gov>, Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>, Jacklyn James - NOAA Federal <jacklyn.c.james@noaa.gov>, David Neff <dave@etracinc.com>, Isadora Kratchman <izzy@etracinc.com>, Lisa Diamond <lisa@etracinc.com>

Good day,

Please find attached compressed file for F00763 DtoN Report #1 - #6, containing five rocks (UWTROC) that are shoaler than the current charted depths. 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](mailto:castle.e.parker@noaa.gov)

*office (757) 364-7472*

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 **F00763\_DtoNs\_1-6.zip**

4970K





Kurt Mueller - NOAA Federal <kurt.mueller@noaa.gov>

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## F00763 data issues

5 messages

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**Kathryn Pridgen - NOAA Federal** <kathryn.pridgen@noaa.gov>

Tue, Apr 9, 2019 at 8:18 AM

To: David Neff <david@etracinc.com>

Cc: Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Stacy Fullerton - NOAA Federal <stacy.dohse@noaa.gov>, Kurt Mueller - NOAA Federal <kurt.mueller@noaa.gov>, Grant Froelich - NOAA Federal <grant.froelich@noaa.gov>

Dave,

We are having some issues with F00763 and F00764 from S-P958-KR-18 Anchorage Earthquake Response. I will send info on F00764 in a separate email so as to not confuse the two surveys. While performing the SAR for F00763 we have identified a problem with survey line 2018RE3440651 - 0001\_XL\_R2\_Sonic\_2022 acquired by R/V Resolution on DN344. It appears that numerous depth soundings in this line were inadvertently flagged as 'features' in Qimera 3D Editor during field processing. When the submitted .GSF file for this line was converted in HIPS at the Pacific Hydrographic Branch during review, the flags carried forward into the Critical Soundings Layer resulting in over 132,000 extraneous designated soundings within the project.

We'd like to request that the field review this line in their Qimera project, remove the unnecessary flags and re-submit the .GSF file for this line. The line is located in Area C of the survey, and it does not appear that any of the grids are affected.

I've attached a few screenshots showing the soundings that were flagged erroneously in Qimera 3D Editor, as well as the resulting designated soundings layer in HIPS. [Preview attachment HIPS\\_Designated\\_Soundings.JPG](#) [Preview attachment F00763\\_Qimera\\_3D\\_Editor \(2\).JPG](#)



[F00763\\_Qimera\\_3D\\_Editor \(2\).JPG](#)

283 KB



[HIPS\\_Designated\\_Soundings.JPG](#)

56 KB

[Preview attachment F00763\\_Qimera\\_3D\\_Editor \(1\).JPG](#)



[F00763\\_Qimera\\_3D\\_Editor \(1\).JPG](#)

268 KB

Thanks

Katy

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Kathryn "Katy" Pridgen

Physical Scientist

NOAA-HSD OPS

240-533-0033

[kathryn.pridgen@noaa.gov](mailto:kathryn.pridgen@noaa.gov)

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

Tue, Apr 9, 2019 at 9:31 AM

To: Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>

Cc: Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Stacy Fullerton - NOAA Federal <stacy.dohse@noaa.gov>, Kurt Mueller - NOAA Federal <kurt.mueller@noaa.gov>, Grant Froelich - NOAA Federal <grant.froelich@noaa.gov>

Kathryn,

We opened up line 2018RE3440651 – 0001\_XL and confirmed the flags PHB identified. We believe this to be a relic from our QC process during our cross-line comparison. During our comparison to help us visually see the difference between mainscheme lines and our XLs we found the easiest way is to flag the crosslines. After review we undo the fags. This line happened to not have all of the flags undone. We will install a measure in our pipeline to guard against this in the future. Thank you for bringing it to our attention.

Also, thank you for informing us that the feature flags we set in qimera will port to the designated sounding layer in CARIS. This is something we were not aware of.

I've created a link for the revised GSF [HERE](#).

Please let me know if there are any issues downloading the GSF file or any questions about the explanation above.

Regards,  
Dave

[Quoted text hidden]

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**David Neff, C.H.**

Mobile: (415) 517-0020

[www.etracinc.com](http://www.etracinc.com)

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**Kurt Mueller - NOAA Federal** <kurt.mueller@noaa.gov>

Tue, Apr 9, 2019 at 10:33 AM

To: Kurt Brown <kurt.brown@noaa.gov>

[Quoted text hidden]

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*Kurt Mueller*

*Physical Scientist*

*National Oceanic and Atmospheric Administration*

*Pacific Hydrographic Branch*

*7600 Sand Point Way NE*

*Seattle WA 98115*

*206-526-6853*

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**Kathryn Pridgen - NOAA Federal** <kathryn.pridgen@noaa.gov>

Wed, Apr 10, 2019 at 1:54 PM

To: Kurt Mueller - NOAA Federal <kurt.mueller@noaa.gov>, Grant Froelich - NOAA Federal <grant.froelich@noaa.gov>

Cc: Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Stacy Fullerton - NOAA Federal <stacy.dohse@noaa.gov>

Kurt and Grant,

Can you confirm that you were able to download the new GSF file from eTrac for S-P958-KR-19 Anchorage Earthquake Response project.

Thanks

Katy

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Kathryn "Katy" Pridgen

Physical Scientist

NOAA-HSD OPS

240-533-0033

[kathryn.pridgen@noaa.gov](mailto:kathryn.pridgen@noaa.gov)

[Quoted text hidden]

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**Kurt Mueller - NOAA Federal** <kurt.mueller@noaa.gov>

Wed, Apr 10, 2019 at 2:07 PM

To: Kathryn Pridgen - NOAA Federal <kathryn.pridgen@noaa.gov>

Cc: Grant Froelich - NOAA Federal <grant.froelich@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>, Stacy Fullerton - NOAA Federal <stacy.dohse@noaa.gov>

Hi Kathryn,

Yes, I downloaded the new GSF file successfully and the issue has been resolved - thanks for the assistance.

Kurt

[Quoted text hidden]

[Quoted text hidden]

APPROVAL PAGE

F00763

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
- Collection of Bathymetric Attributed Grids (BAGs)
- Collection of backscatter mosaics
- Processed survey data and records
- GeoPDF of survey products

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: \_\_\_\_\_

**Commander Olivia Hauser, NOAA**  
Chief, Pacific Hydrographic Branch