

F00766

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

DESCRIPTIVE REPORT

Type of Survey: Navigable Area

Registry Number: F00766

LOCALITY

State(s): Florida

General Locality: Northwest Gulf

Sub-locality: Approach to Saint Joe

2019

CHIEF OF PARTY
Dean Moyles

LIBRARY & ARCHIVES

Date:

HYDROGRAPHIC TITLE SHEET

F00766

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: **Northwest Gulf**

Sub-Locality: **Approach to Saint Joe**

Scale: **1:20000**

Dates of Survey: **02/08/2009 to 03/30/2019**

Project Number: **OPR-J359-KR-2018**

Data Source: **Fugro Pelagos, Inc.**

Chief of Party: **Dean R. Moyles**

Soundings by: **multibeam**

Imagery by: **multibeam**

Verification by: **Atlantic Hydrographic Branch**

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

Remarks:

Any revisions to the Descriptive Report (DR) applied during office processing are shown in red italic text. The DR is maintained as a field unit product, therefore all information and recommendations within this report are considered preliminary unless otherwise noted. The final disposition of survey data is represented in the NOAA nautical chart products. All pertinent records for this survey are archived at the National Centers for Environmental Information (NCEI) and can be retrieved via <https://www.ncei.noaa.gov/>. Products created during office processing were generated in NAD83 UTM 16N, MLLW. All references to other horizontal or vertical datums in this report are applicable to the processed hydrographic data provided by the field unit.

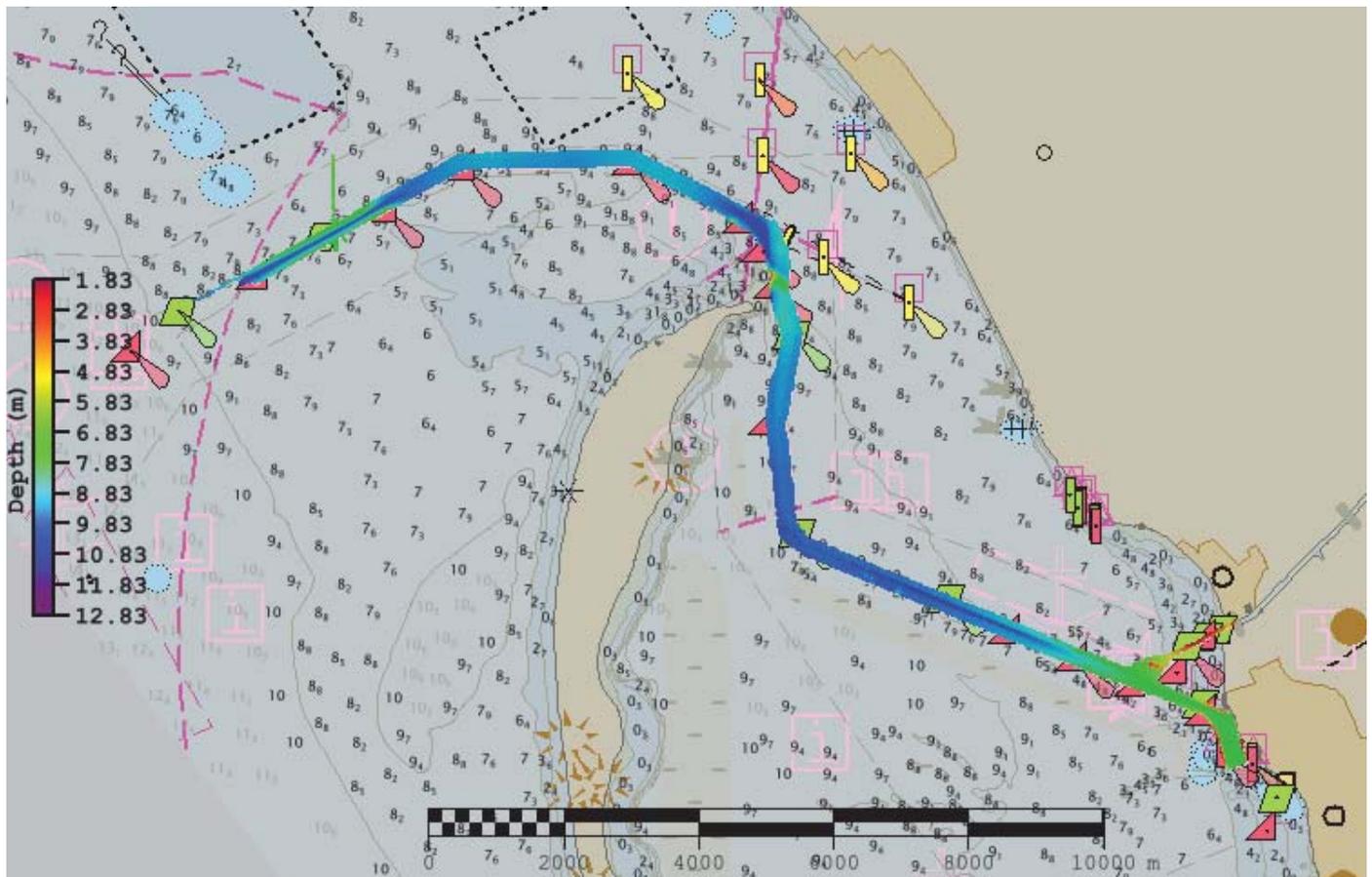
Descriptive Report Summary F00766	
Project	OPR-J359-KR-2018
Survey	F00766
State	Florida
Locality	Northwest Gulf
Sub Locality	Approach to Saint Joe
Scale of Survey	1:20000
Sonars Used	Teledyne RESON SeaBat 7125 SV2 (Dual) (MBES)
Horizontal Datum	North American Datum 1983
Vertical Datum	Mean Lower Low Water
Vertical Datum Correction	VDatum
Projection	NAD83 (UTM zone 16N)
Field Unit	Fugro Pelagos, Inc.
Survey Dates	02/08/2019 - 03/30/2019
Chief of Party	Dean R. Moyles

A. Area Surveyed

This hydrographic survey was acquired in accordance with the requirements defined in the Project Instruction OPR-J359-KR-18.

Data were acquired within the following survey limits:

Northwest Limit	Southeast Limit
29° 52' 38.66" N	29° 48' 48.77" N
85° 28' 19.98" W	85° 18' 40.09" W



Overview of survey F00766, Approach to Saint Joe, FL

B. Survey Purpose

Survey F00766 was added to Project OPR-J359-KR-18 as a safety reconnaissance survey to inspect the accuracy of the channel as charted and to ensure all Aids to Navigation (AtoNs) were on station and survey their intended purpose. Between the dates of February 8 2019 and March 30 2019, M/Vs Pelagos and MacGintie acquired 99.66 LNM of mainscheme object detection MBES within the approach to Port St. Joes, FL. 4.75 LNM of crosslines, totalling 4.76% of mainscheme mileage were also acquired.

C. Intended Use of Survey

The entire survey is adequate to supersede previous data.

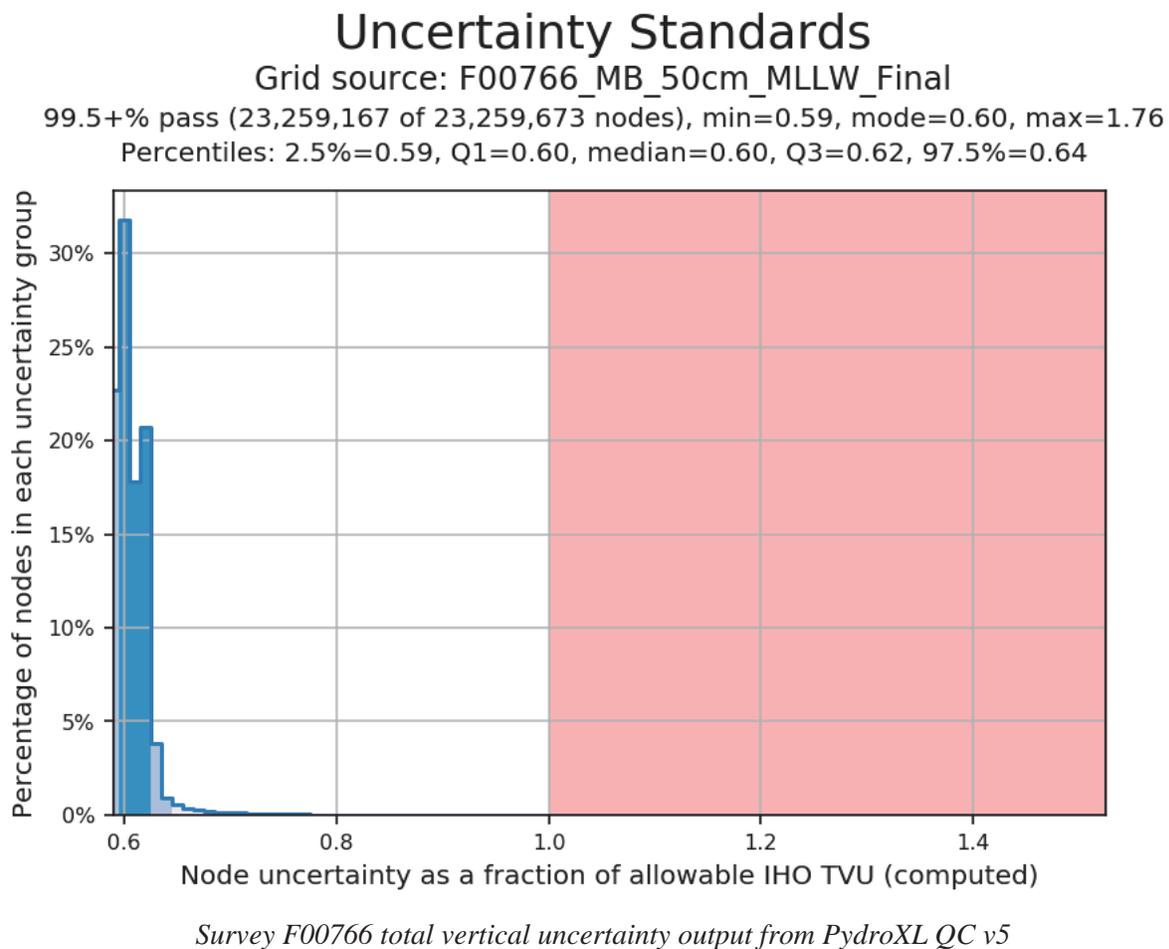
Survey F00766 is adequate to supersede previously charted data.

D. Data Acquisition and Processing

Please reference OPR-J359-KR-18_DAPR.pdf submitted with this report for a complete description of data acquisition and processing systems, survey vessels, quality control procedures and data processing methods.

E. Uncertainty

Of 23,259,673 nodes, 23,259,167 (99.5%) of grid nodes meet IHO Uncertainty standards. For further detail pertaining to uncertainty values used in this survey, refer to the DAPR.

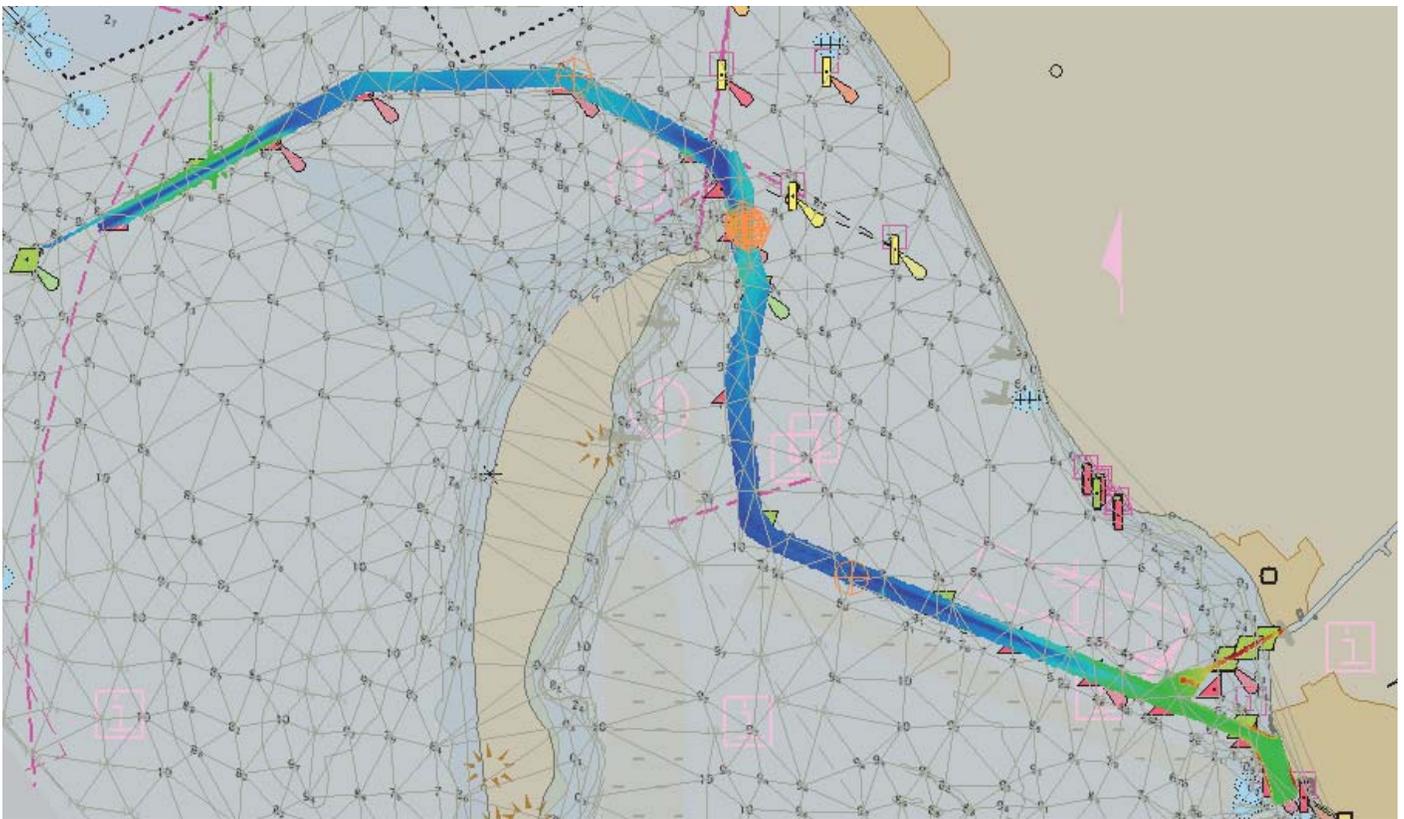


F. Results and Recommendations

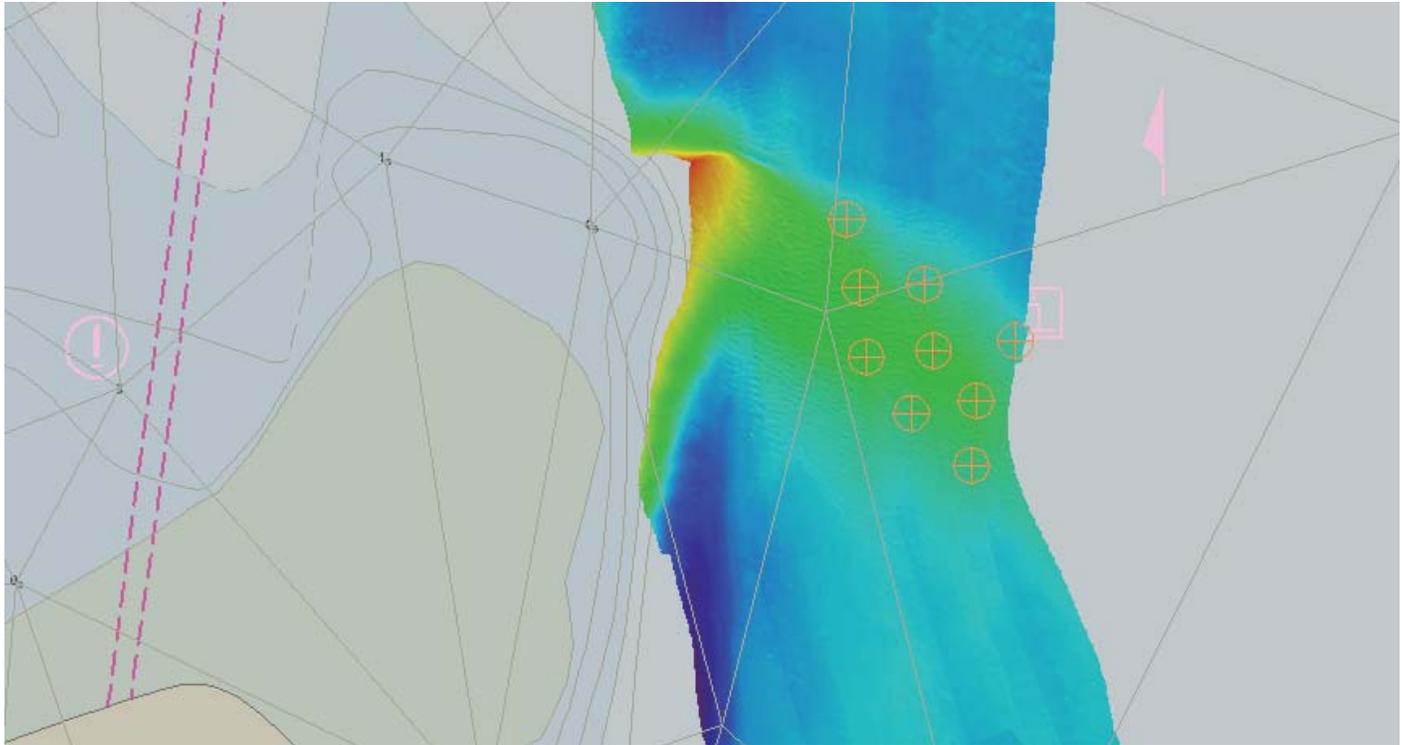
The following are the largest scale ENC that cover the survey area:

ENC	Scale	Edition	Update Application Date	Issue Date	Preliminary?
US5FL63M	1:40000	33	04/30/2018	03/21/2019	NO

A selected sounding set was made from both the finalized 50cm grid with the following characteristics: shoal biased; 1 to 10,000mm at map scale; defined radius of 5. An overall sounding selection was created from charted soundings from ENC US5FL63M. The two sounding sets were then compared with a minimum threshold of 1m survey sounding shoal to charted soundings using the Chart Review feature within Pydro QC tools. The greatest value of difference occurs where the northernmost point of Cape San Blas has extended northeast of the currently charted position. Surveyed soundings deeper than charted soundings were not analyzed.



Overview of chart comparison results



Concentration of soundings from survey F00766 found to be shoal by >1m to charted soundings; visual comparison shows evident movement of sediment across charted channel

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

Surface Name	Surface Type	Resolution	Depth Range	Surface Parameter	Purpose
F00766_MB_50cm_MLLW	CUBE	0.5 m	1.83 m - 12.17 m	FPI_CUBE_2018spec(ODC_CM01)	ODMBES
F00766_MB_50cm_MLLW_Final	CUBE	0.5 m	1.83 m - 12.17 m	FPI_CUBE_2018spec(ODC_CM01)	ODMBES
F00766_MBAB_2m_400kHz	MB Backscatter Mosaic	2 m	-	N/A	MBAB

G. Vertical and Horizontal Control

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

The vertical control method used for this survey was VDatum.

The vertical datum for this project is Mean Lower Low Water; soundings reduced to MLLW via VDatum model J359_Buffer1mi_xyNAD83-MLLW_geoid12b.csar

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

The horizontal datum for this project is North American Datum 1983. The projection used for this survey is NAD83 (UTM zone 16N).

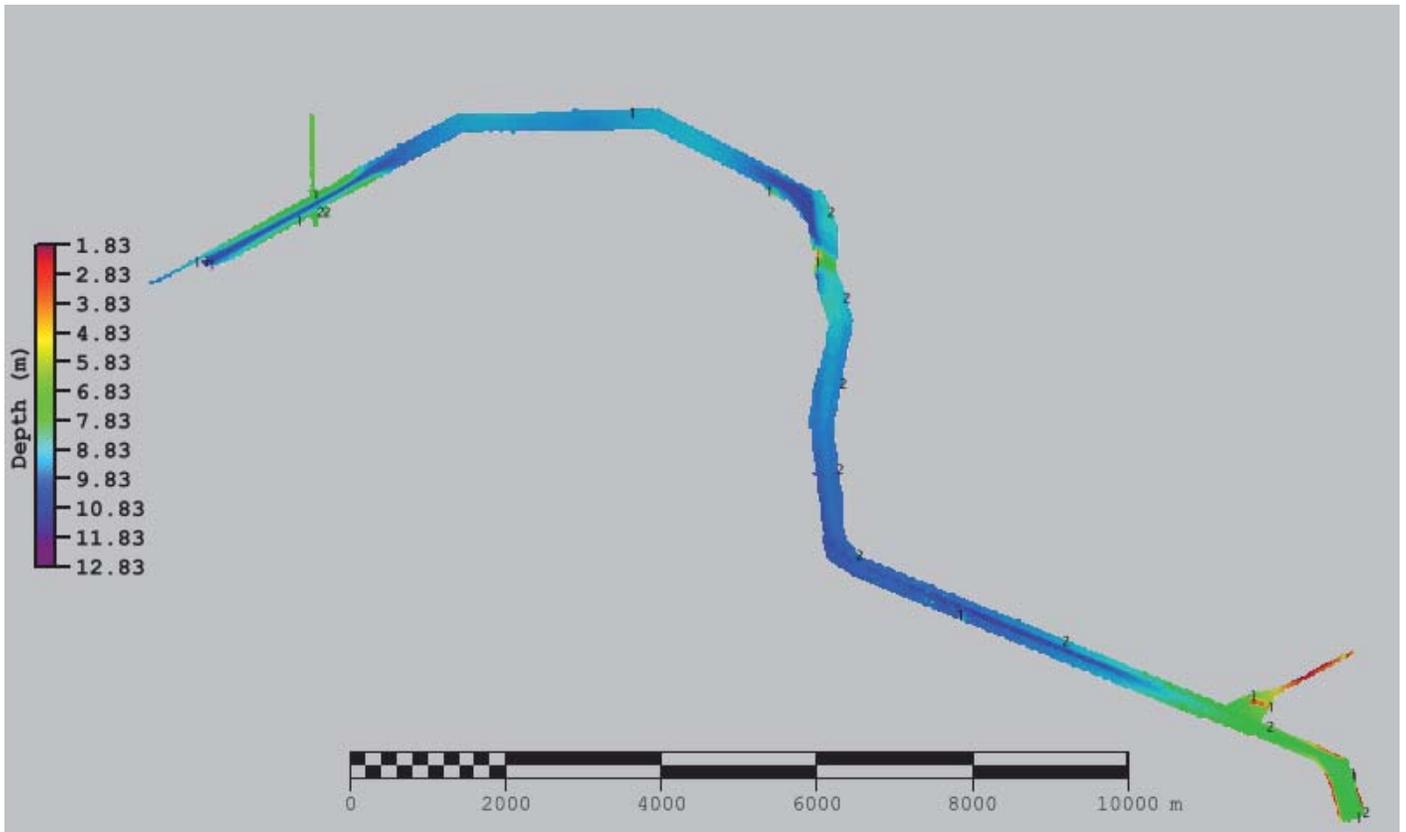
The horizontal datum for this project is North American Datum 1983.

The projection used for this project is UTM 16N.

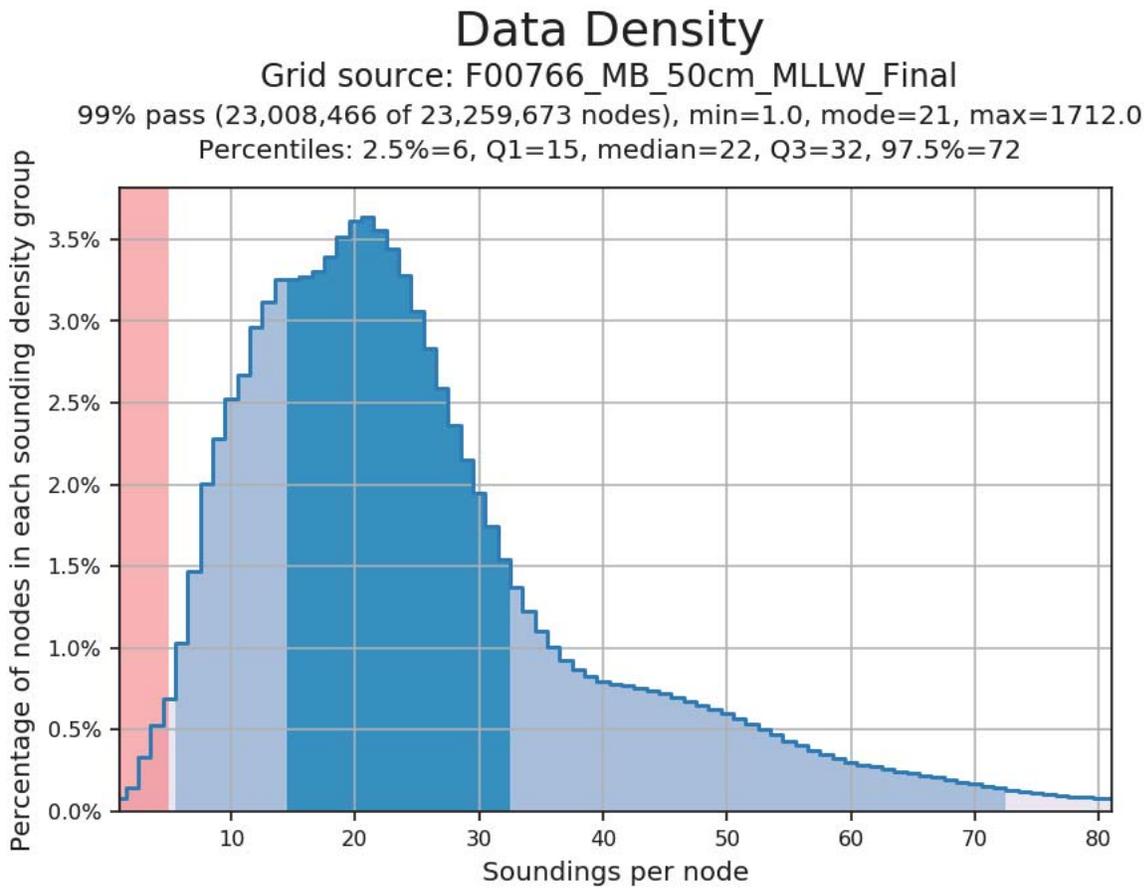
Additional information discussing the horizontal control for this survey can be found in the accompanying HVCR.

H. Additional Results

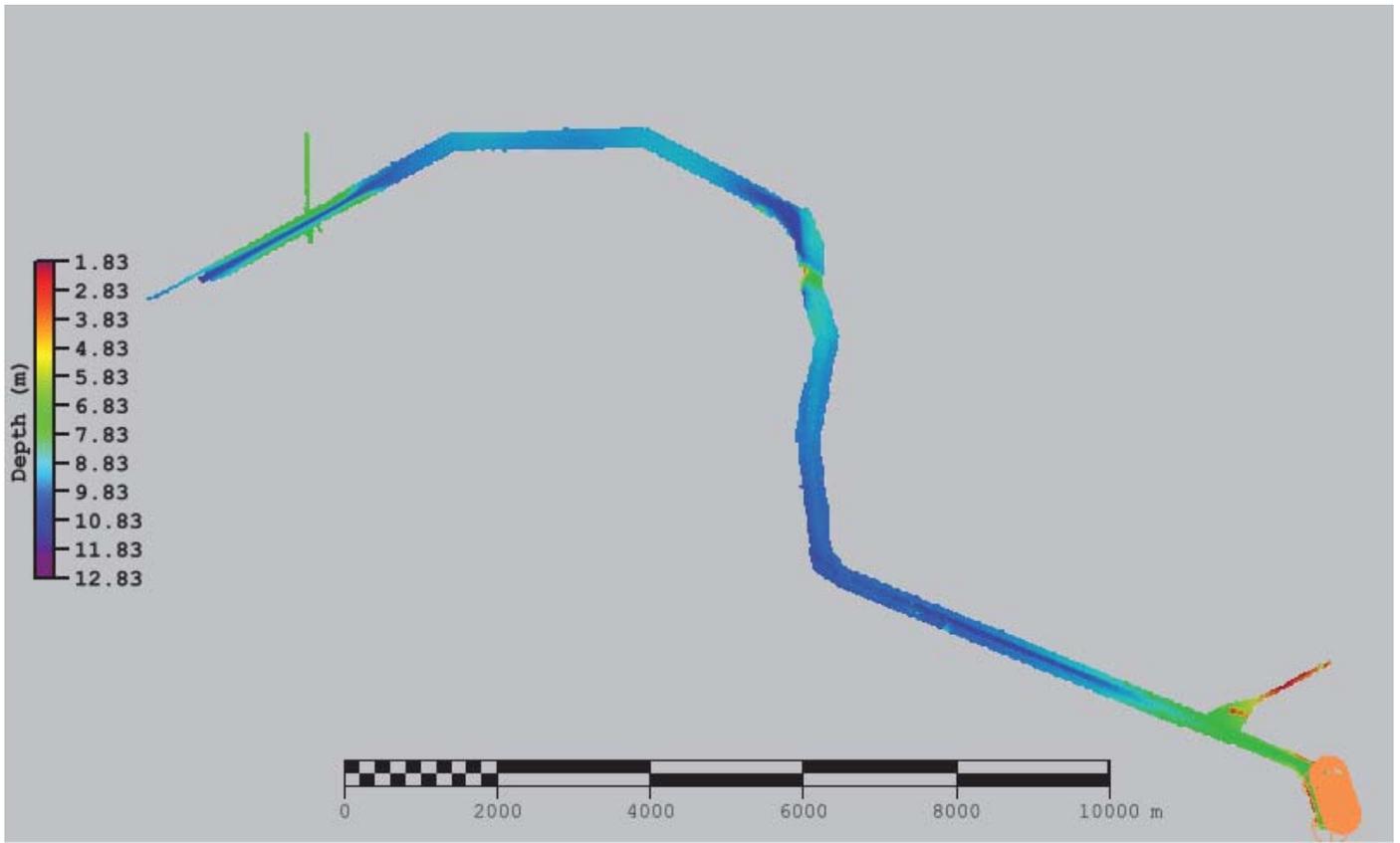
Overall, survey F00766 is adequate to supersede existing data: shoaling >1m was discovered across the charted channel in the vicinity of the northernmost point of Cape San Blas and all Aids to Navigation are on station and functioning properly. Three factors affect the statistical analysis of the data that do not invalidate the overall findings. The first factor is found in 18 very small data gaps (holidays) found via Pydro QC Tools. F00766 is assigned as an object detection-level multibeam survey and as such, every effort was made to meet data density requirements per the HSSD 2018. The majority of instances occur along the outer beams of the outer-most data, outside of the channel boundaries. The persistence of holidays does not negatively impact the overall data quality of survey F00766. The second factor noted by the hydrographer is a systemic 20cm offset between soundings acquired by the M/V Pelagos and the M/V MacGintie. This offset was researched and analyzed with no conclusion at the time of this report, and as such will remain, as the offset does not produce data values that exceed tolerances set forth in the HSSD. Lastly, Pydro QC noted several hundred fliers in the southeastern portion of the limits of F00766, which coincides with the presence of a sea wall in that location.



F00766 data holiday results from Pydro QC tools



F00766 data density results from Pydro QC tools



F00766 flier finder results from Pydro QC tools

From: [Brian Mohr - NOAA Federal](#)
To: [Moyles, Dean](#)
Subject: Re: Survey Outlines (Pre-Hurricane) OPR-J359-KR-18 Apalachicola
Date: Wednesday, March 27, 2019 10:37:44 AM
Attachments: [image001.png](#)

Got it, thank you Dean, I'll get H13153, H13154 and H13155 updated in SURDEX shortly.

Brian Mohr
Physical Scientist - Data Manager
Hydrographic Surveys Division
brian.mohr@noaa.gov

On Thu, Feb 21, 2019 at 6:51 AM 'Moyles, Dean' via _NOS OCS Survey Outlines
<survey.outlines@noaa.gov> wrote:

Here are the survey outlines for the work completed prior to Hurricane Michael. Please let me know if you have any questions or comments.

Kind regards,

Dean Moyles

Marine Hydrographic Manager (ACSM cert. No. 226)

T +1 713 369-5400 | C +1 858 945-6378

email: dmoyles@fugro.com

Fugro (USA) Marine Inc.: <https://www.fugro.com/>

6100 Hillcroft Street, Houston, TX 77081, USA



From: Moyles, Dean
To: ["OCS.NDB@noaa.gov"](mailto:OCS.NDB@noaa.gov); ["Coast.Pilot@NOAA.GOV"](mailto:Coast.Pilot@NOAA.GOV)
Cc: [Starla Robinson - NOAA Federal](#)
Subject: Coast Pilot Review Report
Date: Monday, April 08, 2019 10:49:00 AM
Attachments: [OPR-J359-KR-18_CoastPilotReviewReport.pdf](#)
[OPR-J359-KR-18CoastPilotReport.pdf](#)
[image001.png](#)

Please find the attached Coast Pilot Review Report, please let me know if you have any questions.

Kind regards,

Dean Moyles
Marine Hydrographic Manager (NSPS/THSOA cert. No. 226)

T +1 713 369-5400 | C +1 858 945-6378
email: dmoyles@fugro.com

Fugro (USA) Marine Inc.: <https://www.fugro.com/>
6100 Hillcroft Street, Houston, TX 77081, USA





UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE
Office of Coast Survey
Silver Spring, Maryland 20910-3282

Date: 5/6/2019

MEMORANDUM FOR: Corey Allen
Chief, Hydrographic Surveys Division Operations Branch

FROM: Starla Robinson
Project Manager, OPR-J359-KR-18
Hydrographic Surveys Division Operations Branch

SUBJECT: Waiver request – Crossline F00766
OPR-J359-KR-18
Contract # EA133C-14-CQ-0032
Project: OPR-J359-KR-18
Task Order: 04

Fugro is granted a waiver from the requirement of providing crosslines for survey F00766.

Justification

F00766, Approach to Saint Joe was collected as reconnaissance data after Hurricane Michael. The purpose of the survey was to ensure safe transit in and out of the Saint Joe port facility. Object detection coverage standards are required on any feature found. The reporting requirements are a Descriptive Report Memo. Given the opportunistic nature of this data collection, crosslines are also not required.

Decision

 2019.05.10
10:18:45 -04'00'

Waiver is: Granted

Denied

cc: Chief, HSD OPS
Fugro Pelagos
Stacy Dohse, Contract Specialist
Emily Clark, Contract Officer





UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEANIC SERVICE
Office of Coast Survey
Silver Spring, Maryland 20910-3282

Date: 4/9/2019

MEMORANDUM FOR: Corey Allen
Chief, Hydrographic Surveys Division Operations Branch

FROM: Starla Robinson
Project Manager, OPR-J359-KR-18
Hydrographic Surveys Division Operations Branch

SUBJECT: Waiver request – Check Sum MD-5 Hash
OPR-J359-KR-18
Contract # EA133C-14-CQ-0032
Project: OPR-J359-KR-18
Task Order: 04

Fugro is granted a waiver from the requirement of performing a check sum per 2018 HSSD Section 8.3.1 *Media*. The contractor remains responsible for ensuring that all files are present and have not become corrupt during transfer. How the field unit chooses to accomplish this left to their professional discretion.

Justification

It is the intent of HSD to ensure that quality data is delivered in a timely and responsible fashion. In this case, the check sums is producing excessive delays, impacting the contractors ability to deliver the data.

Decision

 2019.04.09
15:14:44 -04'00'

Waiver is: Granted

Denied

cc: Chief, HSD OPS
Fugro Pelagos
Stacy Dohse, Contract Specialist
Emily Clark, Contract Officer



From: [OCS NDB - NOAA Service Account](#)
To: [Castle E Parker](#)
Cc: [AHB Chief](#); [Starla Robinson - NOAA Federal](#); [Dean Moyles](#); hrokyta@fugro.com; [Louis Licate - NOAA Federal](#); [_NOS OCS PBA Branch](#); [_NOS OCS PBB Branch](#); [_NOS OCS PBC Branch](#); [_NOS OCS PBD Branch](#); [_NOS OCS PBE Branch](#); [_NOS OCS PBG Branch](#); [Charles Porter - NOAA Federal](#); [Chris Libeau](#); [James M Crocker](#); [Ken Forster](#); [Kevin Jett - NOAA Federal](#); [Matt Kroll](#); [Michael Gaeta](#); [NSD Coast Pilot](#); [PHB Chief](#); [Tara Wallace](#)
Subject: Fwd: F00766 DtoN #1 Submission to NDB
Date: Wednesday, April 10, 2019 1:43:10 PM
Attachments: [F00766 DtoN 1.zip](#)

DD-30675 has been registered by the Nautical Data Branch and directed to Products Branch B for processing.

The DtoNs reported are several obstructions in the approaches to Port St. Joe Harbor, FL.

The following charts have been assigned to the record:

11393 kapp 142

11389 kapp 166

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

US5FL63M

US4FL60M

References:

F00766

OPR-J359-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: Tue, Apr 9, 2019 at 9:39 AM

Subject: F00766 DtoN #1 Submission to NDB

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

Cc: AHB Chief - NOAA Service Account <ahb.chief@noaa.gov>, Starla Robinson - NOAA Federal <Starla.Robinson@noaa.gov>, Moyles, Dean <dmoyles@fugro.com>, <hrokyta@fugro.com>, Louis Licate - NOAA Federal <louis.licate@noaa.gov>

Good day,

Please find attached zip file associated with survey F00766 for submission to Nautical Data Branch (NDB) and Marine Chart Division (MCD). This danger submission includes three

obstructions that are shoaler than the applicable depth range and located in the channel approach to Port St. Joe, Florida.

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

If you have any questions, please direct them back to me via email or phone 757-364-7472.

Thank you for your assistance with this matter.

Regards,

Gene Parker

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

APPROVAL PAGE

F00766

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: _____

Commander Meghan McGovern, NOAA
Chief, Atlantic Hydrographic Branch