

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

DESCRIPTIVE REPORT

Type of Survey: Basic Hydrographic Survey

Registry Number: Area 1B

LOCALITY

State(s): Florida
Georgia

General Locality: Vicinity of Blake Plateau

Sub-locality: Blake Plateau Area 1B

2019

CHIEF OF PARTY
Gilberto Luna Fernandez

LIBRARY & ARCHIVES

Date:

HYDROGRAPHIC TITLE SHEET

Area 1B

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 Georgia**

General Locality: **Vicinity of Blake Plateau**

Sub-Locality: **Blake Plateau Area 1B**

Scale: **N/A**

Dates of Survey: **11/13/2019 to 12/06/2019**

Instructions Dated: **08/01/2019**

Project Number: **KR-OER-19-01**

Field Unit: **Fugro USA Marine**

Chief of Party: **Gilberto Luna Fernandez**

Soundings by: **Kongsberg Maritime EM 302 (MBES)**

Imagery by: **Kongsberg Maritime EM 302 (MBAB)
Kongsberg Maritime SBP 300-6 (SBP)**

Verification by:

Soundings Acquired in: **meters**

Remarks:

DESCRIPTIVE REPORT SUMMARY

A. Area Surveyed

This hydrographic survey was acquired in accordance with the requirements defined in the Statement of Work provided and the relevant sections of the Hydrographic Surveys Specifications and Deliverables (HSSD) 2019.

Data were acquired within the following survey limits:

Northwest Limit	Southeast Limit
32° 36' 56.65" N 77° 15' 22.61" W	30° 56' 3.56" N 75° 46' 12.05" W

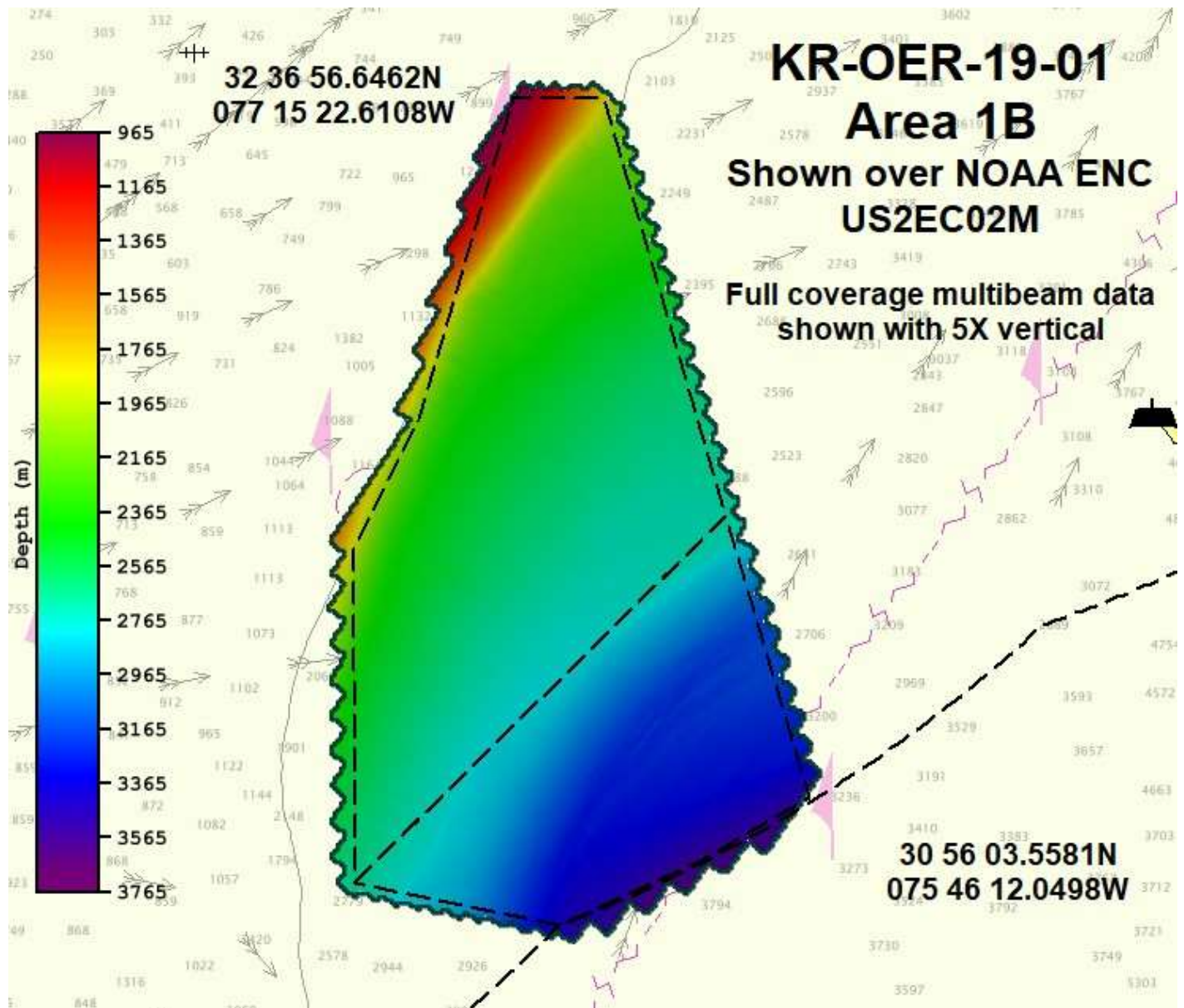


Figure 1: Area 1B full coverage multibeam data acquired in the vicinity of Blake Plateau

B. Survey Purpose

The purpose of this survey is to provide NOAA with modern and accurate hydrographic survey data, to include both multibeam echo sounder and sub-bottom profiler, in the region of the Blake Plateau. These data will be used to update nautical charts in this area as well as provide mapping coverage in the region in support of the NOAA-wide goal of mapping the US EEZ by the year 2030.

The Blake Plateau remains one of the only regions along the US East Coast that does not have comprehensive bathymetric coverage data. This survey will significantly improve coverage offshore of Georgia and Florida, providing coverage from approximately 150-200 NM offshore.

C. Intended Use of Survey

The entire survey is adequate to supersede previous data.

The coverage acquired within the survey limits of Area 1B (Table 1 and Figure 1) meet the coverage requirements as set forth in the statement of work and as stated in section 5.2.2 of the HSSD 2019 (Figure 2).

A total of 1961.02 linear nautical miles of multibeam echosounder data with concurrent sub-bottom profiler data comprise the mainscheme coverage of Area 1B.

Two crosslines, totaling 72.84 linear nautical miles, were acquired within the survey boundary of Area 1B to ensure quality control (Figure 3). Uncertainty associated with sound velocity is responsible for data outliers; of the 304,823 nodes compared between the crossline and mainscheme multibeam data 283,358, or 92.95%, agree within 5m.

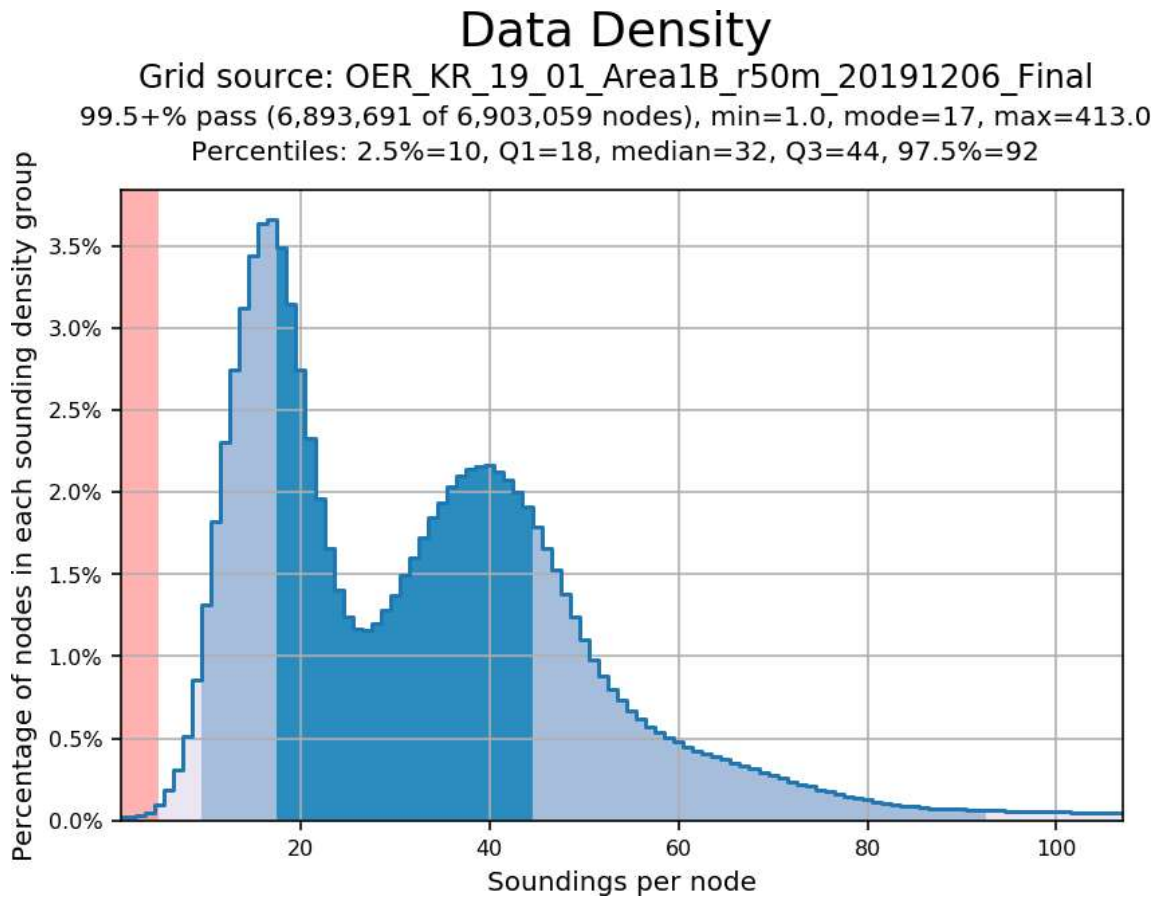


Figure 2: Area 1B full coverage barometric grid density

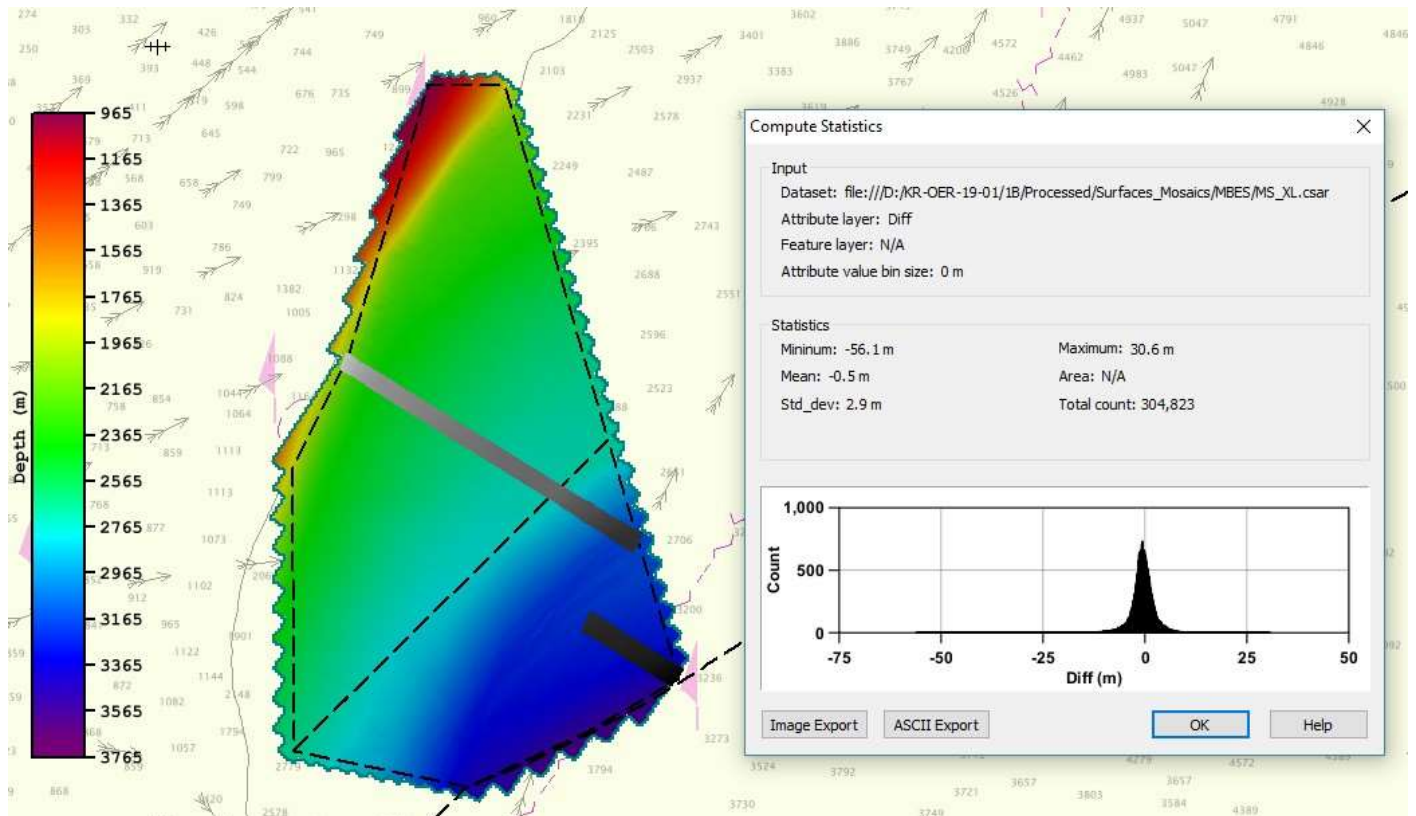


Figure 3: Area 1B crossline to mainscheme multibeam comparison

D. Data Acquisition and Processing

No Data Acquisition and Processing Report will be submitted in association with KR-OER-19-01. For further details of data acquisition and processing systems, survey vessels, quality control procedures and data processing methods, please refer to the vessel mobilization and calibrations reports submitted by this field unit within the DAPR folder.

E. Uncertainty

No uncertainty values were designated for project KR-OER-19-01.

F. Results and Recommendations

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

ENC	Scale	Edition	Update Application Date	Issue Date	Preliminary?
US2EC02M	1:1200000	27	09/13/2019	09/13/2019	NO

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

Surface Name	Surface Type	Resolution	Depth Range	Surface Parameter	Purpose
OER_KR_19_01_Area1B_r50m_20191206	CARIS Raster Surface (CUBE)	50 m	962.11 m - 3673.29 m	CMC_50m	Complete MBES
OER_KR_19_01_Area1B_r50m_20191206_Final	CARIS Raster Surface (CUBE)	50 m	962.11 m - 3673.29 m	CMC_50m	Complete MBES
R1901_Area1B_MBAB_15m_FugroBrasilis_30kHz_1of1	MB Backscatter Mosaic	16 m	-	N/A	Complete MBES

OER-KR-19-01 does not require a chart comparison; there are no assigned features, bottom samples, maritime boundaries, dangers to navigation, aids to navigation, nor shoreline present within the assigned limits of Area 1B.

G. Vertical and Horizontal Control

Per the Statement of Work for KR-OER-19-01, there is no Vertical Control requirement for this project.

The horizontal datum for this project is North American Datum of 1983 (NAD 83). The projection used for this project is Universal Transverse Mercator (UTM) Zone 18.

Per the Statement of Work for KR-OER-19-01, there is no Horizontal Control requirement for this project.

H. Additional Results

There are no additional results for this survey.

I. Approval

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 Survey Summary Report, and all accompanying records and data are approved. All records are forwarded for final review and processing to the Processing Branch.

The survey data meets or exceeds requirements as set forth in the NOS Hydrographic Surveys Specifications and Deliverables, Field Procedures Manual, Standing and 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 Survey Summary Report.

Approver Name	Title	Date	Signature
Gilberto Luna Fernandez	Lead Project Manager	02/20/2020	