

**F00870**

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

**DESCRIPTIVE REPORT**

Type of Survey: Natural Disaster Response

Registry Number: F00870

**LOCALITY**

State(s): Florida

General Locality: Naples, FL

Sub-locality: Capri Pass

**2022**

CHIEF OF PARTY  
James L. Kirkpatrick

**LIBRARY & ARCHIVES**

Date:

**HYDROGRAPHIC TITLE SHEET**

**F00870**

**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: **Naples, FL**

Sub-Locality: **Capri Pass**

Scale: **10000**

Dates of Survey: **10/06/2022 to 10/06/2022**

Instructions Dated: **10/04/2022**

Project Number: **S-H931-NRTFB-22**

Field Unit: **NOAA Navigation Response Team - Fernandina**

Chief of Party: **James L. Kirkpatrick**

Soundings by: **Kongsberg Maritime EM 2040C (MBES)**

Imagery by: **EdgeTech 4125 (SSS)  
 Kongsberg Maritime EM 2040C (MBES Backscatter)**

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

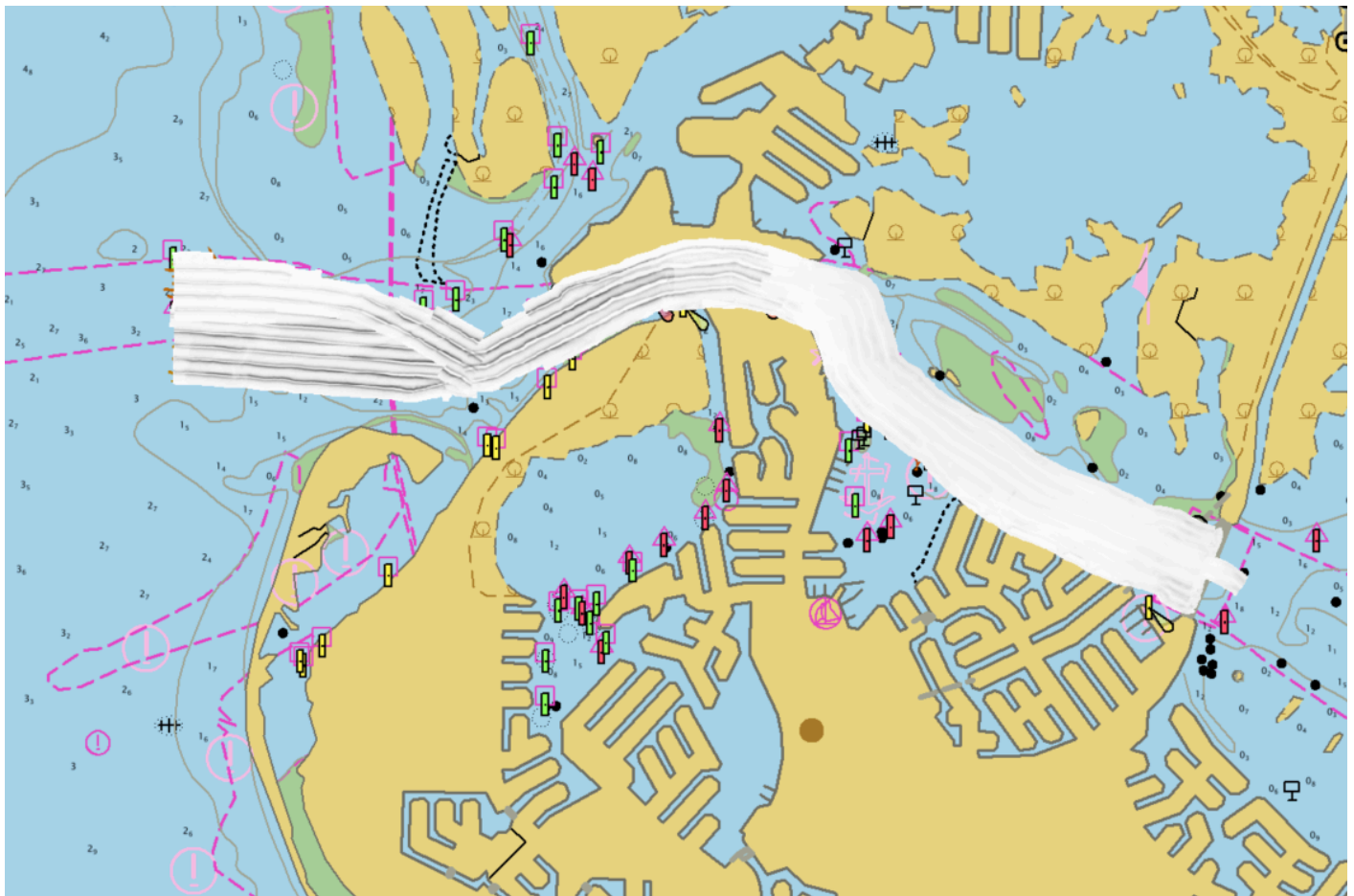
## DESCRIPTIVE REPORT SUMMARY

### A. Area Surveyed

This hydrographic survey was acquired in accordance with the requirements defined in the Project Instruction S-G931-NRTFB-22.

Data were acquired within the following survey limits:

Northwest Limit	Southeast Limit
25° 58' 34.62" N 81° 45' 23.16" W	25° 57' 42.93" N 81° 42' 36.39" W



*Figure 1: F00870 Area Surveyed.*

**B. Survey Purpose**

The purpose of this survey is in response to a USCG and USACE requests for an emergency hydrographic survey for the channel of Capri Pass, due to the effects of Hurricane Ian. If time permits, the priority two area is assigned to survey over the shoal area next to the entrance channel in Capri Pass. A graphic showing the areas is attached at the end of the project instructions. Survey data from this project is intended to supersede all prior survey data in the common area.

**C. Intended Use of Survey**

The entire survey is adequate to supersede previous data.

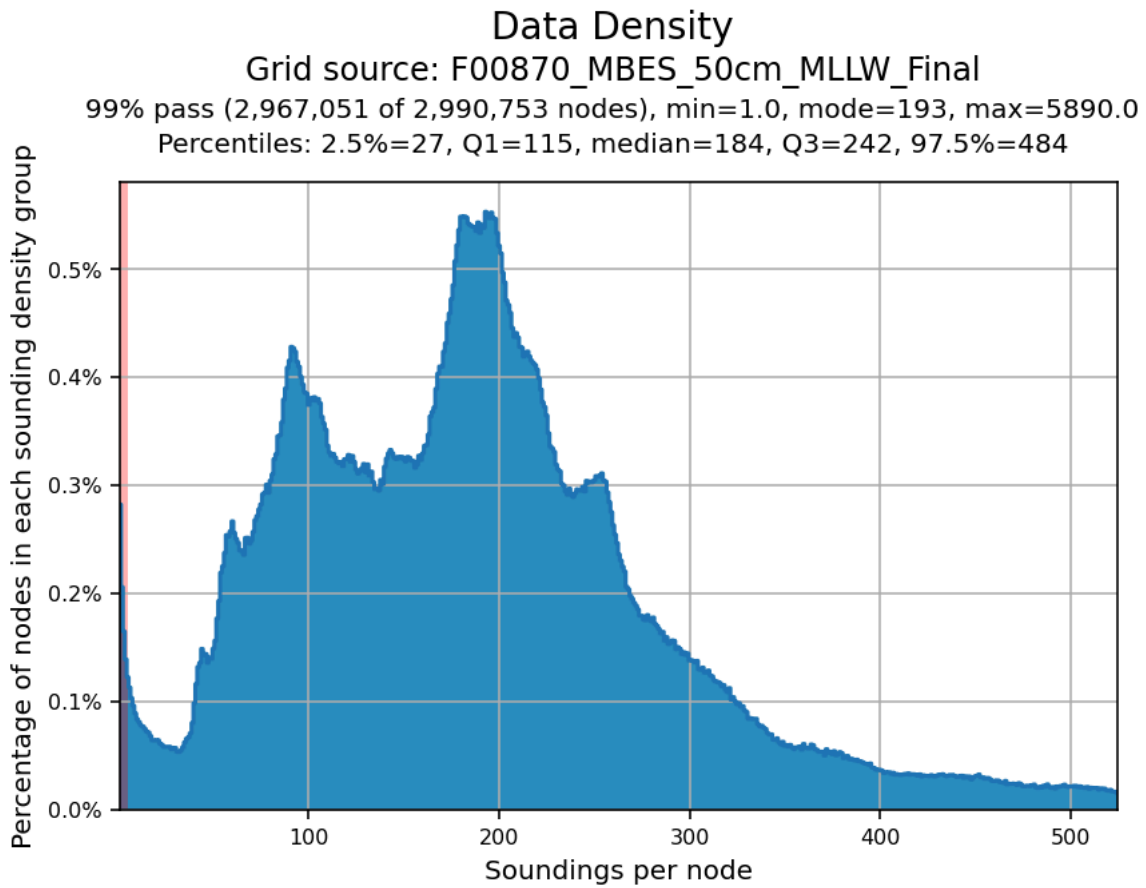
F00870 survey data is adequate to supersede previous data.

**D. Data Acquisition and Processing**

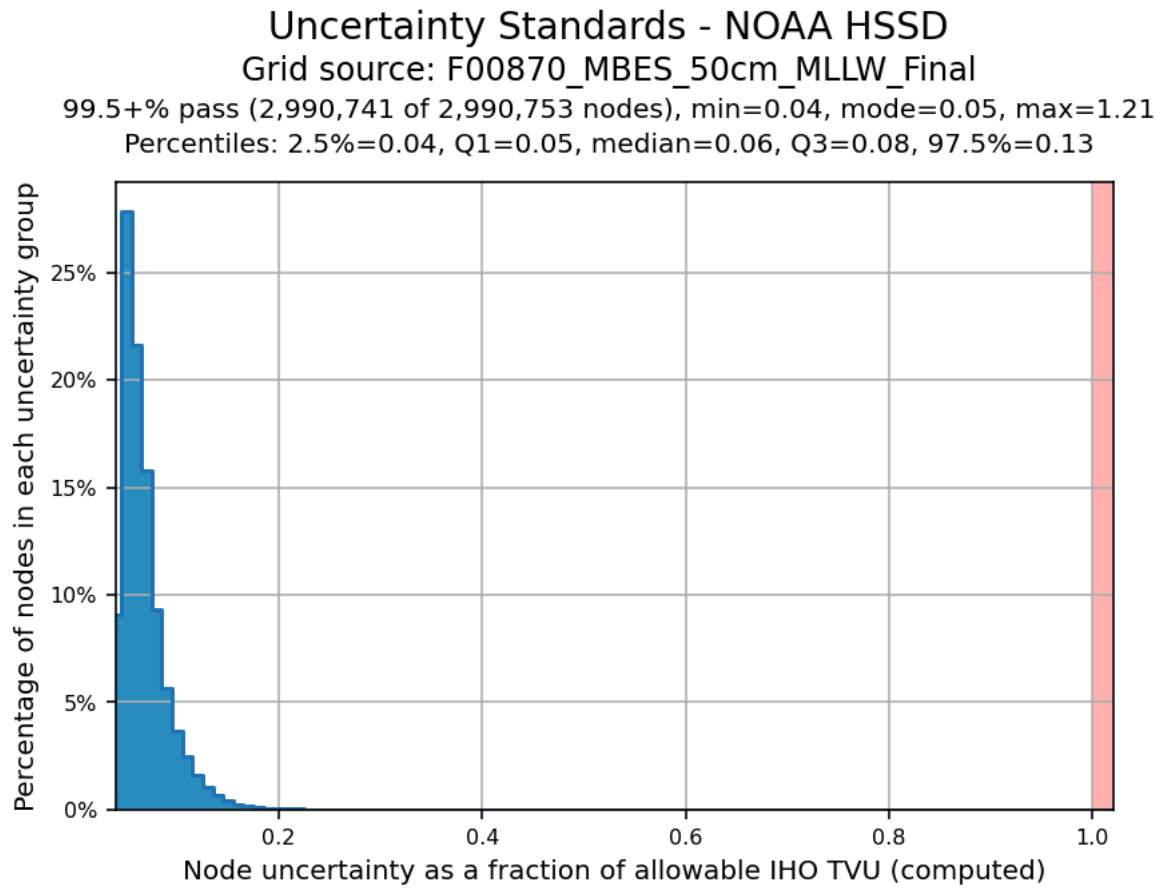
Please reference Data Acquisition and Processing Report NRTFB\_S3009\_DAPR\_2022 and NRTST-UxS\_DAPR\_2022 for a complete description of data acquisition and processing systems, survey vessels, quality control procedures and data processing methods.

**E. Uncertainty**

Uncertainty thresholds were met in accordance with 2022 HSSD standards. Vertical uncertainty values were provided with the VDatum Separation model in project instructions. Sound speed uncertainty values were provided from the manufacturer.



*Figure 2: F00870 Data Density.*



*Figure 3: F00870 Uncertainty.*

**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
US4FL1JT	1:40000	5	03/03/2022	03/03/2022

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

Surface Name	Surface Type	Resolution	Depth Range	Surface Parameter	Purpose
F00870_MBES_50cm_MLLW_Final	CARIS Raster Surface (CUBE)	0.5 m	-0.04 m - 11.31 m	NOAA_0.5m	Object Detection
F00870_MBES_50cm_MLLW	CARIS Raster Surface (CUBE)	0.5 m	-0.04 m - 11.31 m	NOAA_0.5m	Object Detection
F00870_MBAB_2m_S3009_300kHz_1of1	MB Backscatter Mosaic	2 m	N/A	N/A	Object Detection
F00870_SSSAB_1m_900kHz_1of2	SSS Mosaic	1 m	N/A	N/A	100% SSS
F00870_SSSAB_1m_900kHz_2of2	SSS Mosaic	1 m	N/A	N/A	200% SSS

All surface parameters and naming conventions adhere to guidance from the 2022 HSSD.

## G. Vertical and Horizontal Control

The vertical datum for this project is Mean Lower Low Water. The vertical control method used was VDatum.

Vertical control was established through ERS via VDatum Separation model provided with the Project Instructions.

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 17.

Vessel kinematic data were post-processed using Applanix POSPac processing software and RTX positioning methods described in the DAPR. Smoothed Best Estimate of Trajectory (SBET) and associated error (RMS) data were applied to all MBES data in CARIS HIPS and SIPS. The Wide Area Augmentation System (WAAS) was used for real-time horizontal control during data acquisition.

## **H. Additional Results**

### Anti-DTON

An Anti-DTON was issued for the area obstruction charted in the Capri Pass Entrance channel at the request of the regional Navigation Manager and USCG. Email records can be found in this project submission under Project Correspondence.



## 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
James L. Kirkpatrick	Chief of Party	12/20/2022	KIRKPATRICK.JAMES. LEROY.IV.140048739 8  Digitally signed by KIRKPATRICK.JAMES.LEROY.IV.140 0487398 Date: 2023.01.04 14:26:55 -05'00'