

F00709

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

DESCRIPTIVE REPORT

Type of Survey: Field Examination

Registry Number: F00709

LOCALITY

State(s): Puerto Rico

General Locality: Southern Puerto Rico

Sub-locality: Bahia de Guanica

2017

Chief of Party
Christiaan van Westendorp, CDR/NOAA

LIBRARY & ARCHIVES

Date:

HYDROGRAPHIC TITLE SHEET

F00709

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): **Puerto Rico**

General Locality: **Southern Puerto Rico**

Sub-Locality: **Bahia de Guanica**

Scale: **1:5,000**

Dates of Survey: **October 7, 2017**

Project Number: **S-I950-TJ-17**

Data Source: **NOAA Ship *Thomas Jefferson***

Chief of Party: **Christiaan van Westendorp, CDR/NOAA**

Soundings by: **multibeam**

Imagery by: **side scan**

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 19N, 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 MEMO

August 10, 2018

MEMORANDUM FOR: Atlantic Hydrographic Branch

FROM: CDR Christiaan van Westendorp, NOAA
Commanding Officer and Chief of Party, NOAA Ship THOMAS JEFFERSON

SUBJECT: Submission of Survey F00709

Survey F00709 was collected by Thomas Jefferson as an emergency response to Hurricane Maria in 2017. The area surveyed included the entrance and auxiliary channels in Bahia de Guanica, Puerto Rico. The survey came at the request of United States Coast Guard (USCG) District 7 to identify dangers to navigation and provide seafloor imagery and bathymetry to assist in reopening ports in Puerto Rico and the US Virgin Islands.

Thomas Jefferson provided a contact report and initial chartlet to USCG District 7 that included Side Scan Sonar (SSS) mosaics and preliminary depths, which are included in the Descriptive Report Appendices.

Soundings were reduced to Mean Lower Low Water (MLLW) using a VDatum processing solution. No NWLON stations were used.

The area was surveyed using Thomas Jefferson's 28ft hydrographic survey launches (HSL) 2903 and 2904, equipped with Reson 7125 SV2 400kHz Multibeam Echosounder (MBES), Klein 5000 Side Scan Sonar (SSS), and Edgetech 4200 SSS. Data was acquired with 200% SSS and concurrent MBES. Some features identified by SSS were not developed with MBES, and therefore do not have measured least depths. Refer to the Data Acquisition and Processing Report (DAPR) S-I950-TJ-17 for a complete description of data acquisition and processing systems, survey vessels, quality control procedures and data processing methods.

Danger to Navigation Reports are included in the appendices of this memo.

All data were acquired by a NOAA or NOAA Contractor field unit

Findings are summarized in the contact report and chartlet generated for the USCG. See Appendices for more information.

The survey is partially adequate to supersede previous data. This survey generally meets charting specifications and is adequate to supersede prior data, except in cases where features were detected by SSS, but not surveyed with MBES (as mentioned previously). Erroneous outliers and fliers may exist in the submitted depth surfaces. All urgent and time-sensitive chart update recommendations were submitted to the

USCG and NOAA Marine Chart Division as DTON Reports. These reports are included in the appendices of this memo. The Hydrographer does not recommend additional chart updates from this survey; F00709 is recommended for archival only.

Survey data should be archived at NCEI and the DR memo forwarded to HSD.

Concur with clarification. AHB submitted seven (7) shoal sounding DtoNs during the Survey Acceptance Review. Reference DR Appendix 2 for correspondence. Additionally, AHB edited the bathymetry data rejecting soundings considered as erroneous, transformed the bathymetric grid to horizontal datum of NAD83, and finalized the source grid. The survey data is considered adequate to supersede previous data. F00709 is recommended for NCEI archive and addition to the National Bathymetric Source.

Metadata for Survey F00709	
Project	S-I950-TJ-17
Survey	F00709
State	Puerto Rico
Locality	Southern Puerto Rico
Sub-Locality	Bahia de Guanica
Scale of Survey	1:5000
Sonars Used	Edgetech 4200 (Side Scan Sonar) Reson 7125 SV2 400kHz (Multibeam Echosounder) Klein 5000 (Side Scan Sonar)
Horizontal Datum	World Geodetic System (WGS) 1984 NAD83
Vertical Datum	Mean Lower Low Water
Vertical Datum Correction	VDatum
Projection	UTM Zone 19N
Field Unit	NOAA Ship THOMAS JEFFERSON
Survey Dates	10/07/2017
Chief of Party	Christiaan van Westendorp, CDR/NOAA
Submission Date	08/10/2018

APPENDIX I
TIDES AND WATER LEVELS

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

APPENDIX II

SUPPLEMENTAL SURVEY RECORDS
AND CORRESPONDENCE



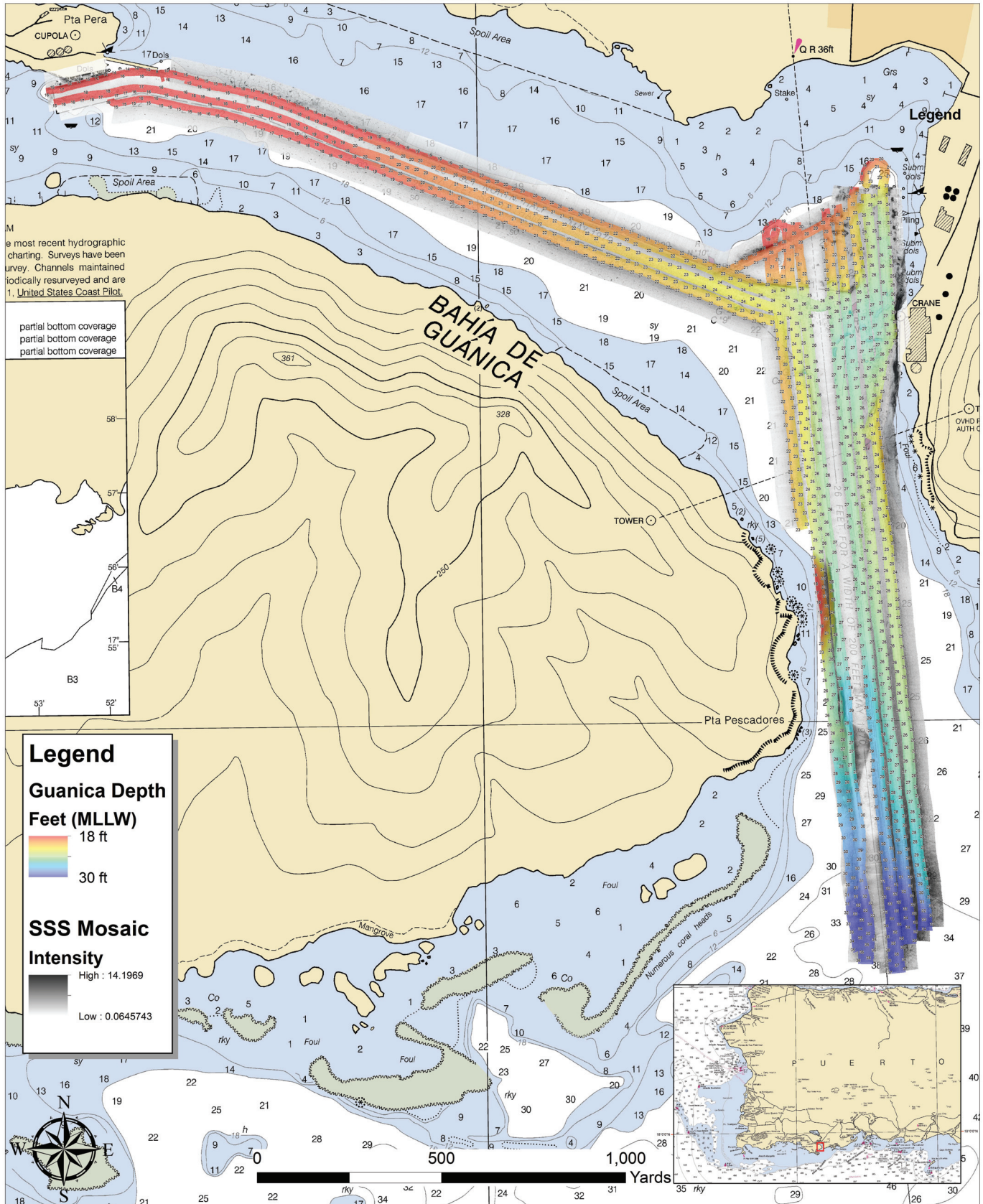
Survey Chartlet of Bahia de Guanica, Puerto Rico - F00709 Hurricane Maria Response

Hydrographic Survey

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE

Data reflect the state of the sea floor in existence on the day and at the time the survey was conducted. The survey and the chart have not been updated for inclusion of the latest Local Notice to Mariners. Preliminary data subject to office review.

NOT FOR USE IN NAVIGATION.



Project: S-1950-TJ-17
Survey: F00709 Hurricane Maria
Locality: Puerto Rico
Sublocality: Bahia de Guanica
Survey Scale: 1:5,000

Sounding Units: NOAA Rounded Feet
Sounding Datum: MLLW
Horizontal Datum: WGS84
Chart Number: NOAA Chart 25679
Survey Technique: Multibeam & Side Scan Sonar

NOAA Ship Thomas Jefferson S222
CDR Chris van Westendorp, NOAA
 co.thomas.jefferson@noaa.gov

Chartlet 1 of 1
 Date of Survey
 07 Oct 2017



NOAA Ship *Thomas Jefferson* (S-222)
Supplemental Contact Information
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE - OFFICE OF COAST SURVEY

Contact:
Commanding Officer / Chief of Party
CDR Chris van Westendorp, NOAA
co.thomas.jefferson@noaa.gov



NOAA Ship *Thomas Jefferson* (S-222)

Supplemental contact information for survey of
Bahia de Guánica, Puerto Rico
07 Oct 2017

PRELIMINARY PRODUCT - FOR USCG & NOAA DECISIONAL USE ONLY - NOT FOR USE IN NAVIGATION



NOAA Ship *Thomas Jefferson* (S-222)
 Supplemental Contact Information
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE - OFFICE OF COAST SURVEY

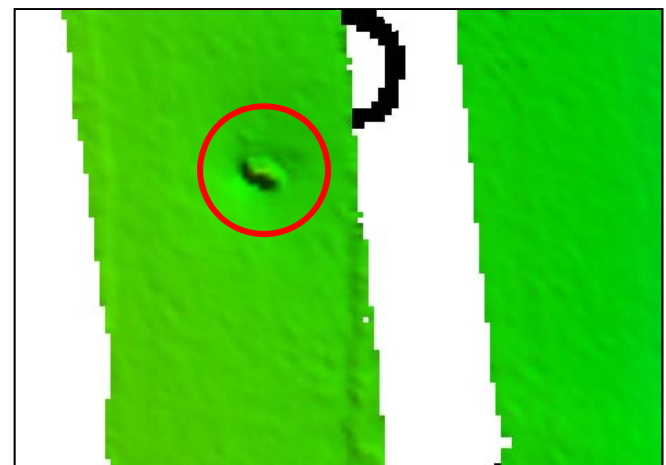
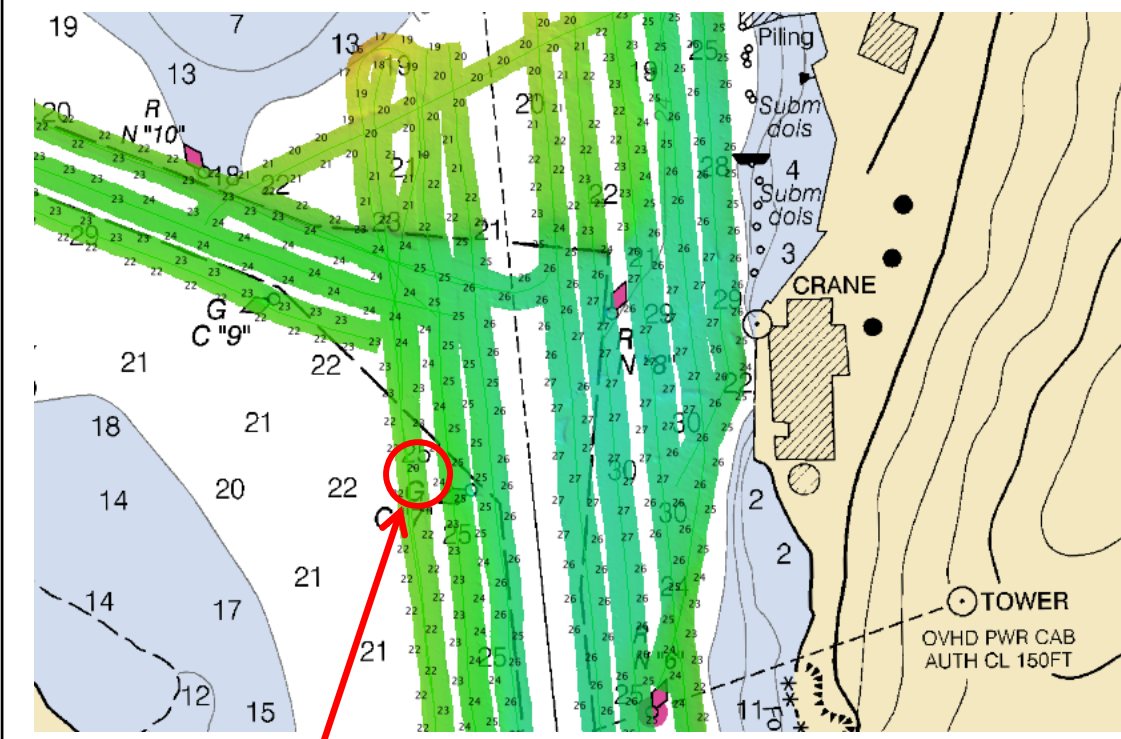
Contact:
 Commanding Officer / Chief of Party
 CDR Chris van Westendorp, NOAA
 co.thomas.jefferson@noaa.gov



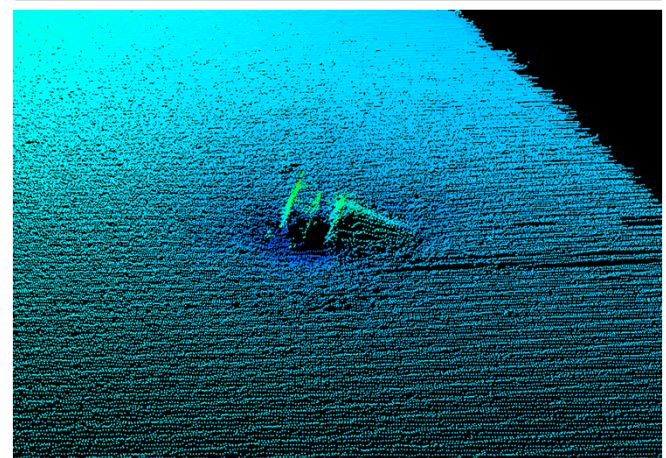
Date:	10/07/2017
Latitude:	17.958027 N
Longitude:	66.909497 W
MBES least depth:	20ft
SSS contact height:	n/a
Contact dimensions:	n/a

Comments:
 Submerged obstruction (possible sunken buoy) west of main channel in Bahía de Guánica; least depth of 20ft near charted 25ft sounding.

Additional media / information:



MBES coverage of obstruction with least depth of 20 ft.



MBES 3D point cloud showing obstruction.

No side scan imagery available.

Obstruction near main channel of Bahía de Guánica.

Project:	S-I950-TJ-17	Chart Number:	12679
Survey:	F00709	Sounding Units:	Feet (NOAA rounded)
Locality:	Puerto Rico	Datum:	MLLW
Sublocality:	Bahía de Guánica	Date of survey:	07 Oct 2017



NOAA Ship *Thomas Jefferson* (S-222)
 Supplemental Contact Information
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE - OFFICE OF COAST SURVEY

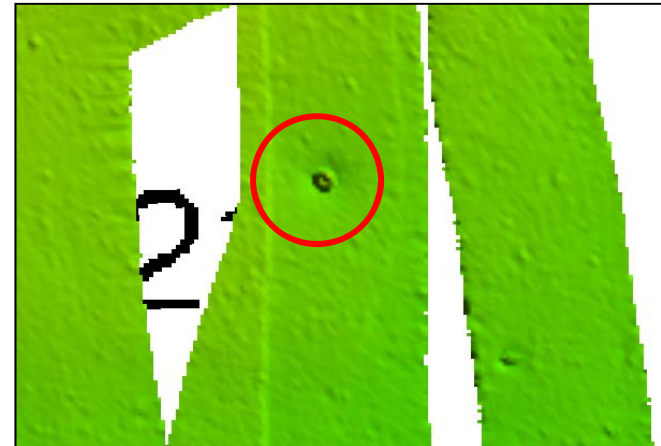
Contact:
 Commanding Officer / Chief of Party
 CDR Chris van Westendorp, NOAA
 co.thomas.jefferson@noaa.gov



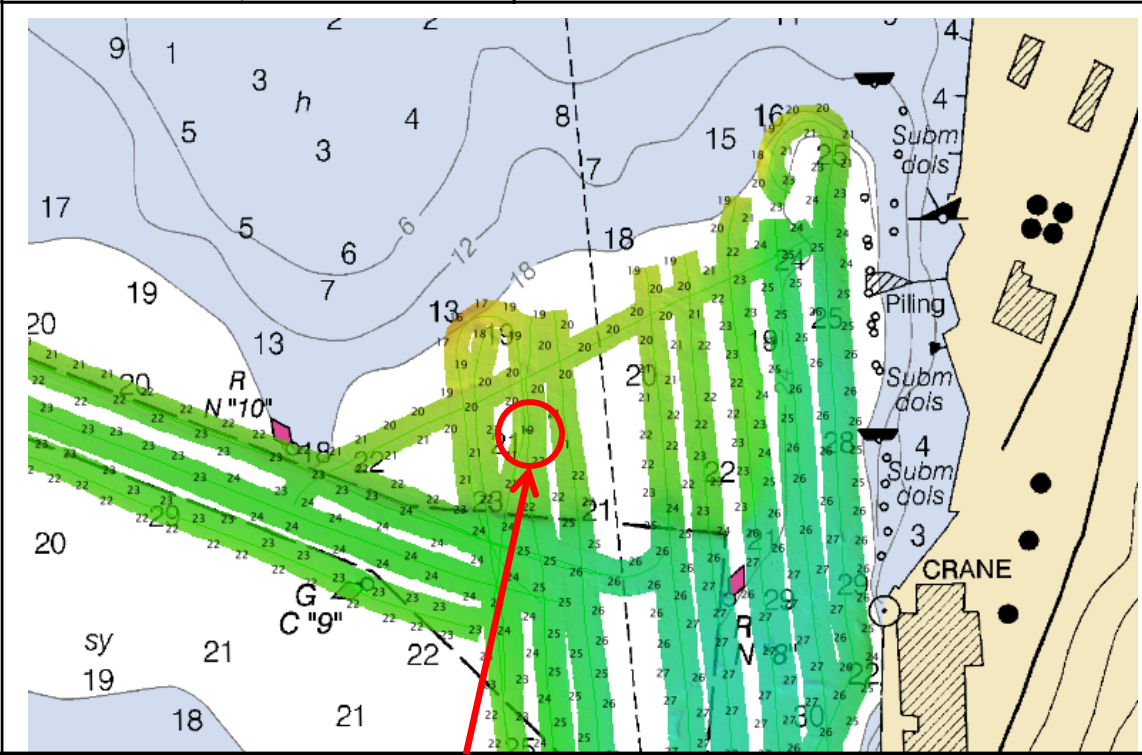
Date:	10/07/2017
Latitude:	17.960361 N
Longitude:	66.909399 W
MBES least depth:	19ft
SSS contact height:	n/a
Contact dimensions:	n/a

Comments:
 Obstruction in northern Bahia de Guánica; least depth of 19ft near charted 21ft sounding.

Additional media / information:

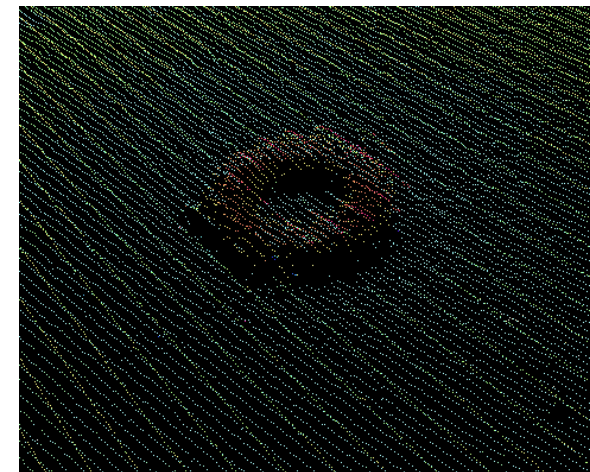


MBES coverage of obstruction with least depth of 19ft.



Obstruction (possible submerged tire) in northern Bahia de Guánica.

Project:	S-I950-TJ-17	Chart Number:	12679
Survey:	F00709	Sounding Units:	Feet (NOAA rounded)
Locality:	Puerto Rico	Datum:	MLLW
Sublocality:	Bahía de Guánica	Date of survey:	07 Oct 2017



MBES 3D point cloud of obstruction.

No sidescan imagery available.



Jeffery Marshall - NOAA Federal <jeffery.marshall@noaa.gov>

F00709 DtoNs 1 to 7 Submission to NDB

1 message

Jeffery Marshall - NOAA Federal

Thu, Nov 5, 2020 at 6:55

<jeffery.marshall@noaa.gov>

AM

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

Cc: AHB Chief - NOAA Service Account <ahb.chief@noaa.gov>, Castle Parker - NOAA Federal <castle.e.parker@noaa.gov>, Douglas Wood - NOAA Federal

<douglas.wood@noaa.gov>, Louis Licate - NOAA Federal <Louis.Licate@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>

Good day,

Please find attached a compressed file for survey F00709, part of Project: S-I369-TJ-17. The DtoN 1-7 submission includes seven (7) survey depths that are shoaler than currently charted soundings that lie just outside the primary channel. The submitted features are located in and near Bahia De Guanica, Puerto Rico. The submission to Nautical Data Branch (NDB) and Marine Chart Division (MCD) is intended for chart application.

The information originates from a NOAA field unit and was noted during the Survey Acceptance Review conducted by Atlantic Hydrographic Branch (AHB). The contents of the attached file were generated at AHB and have been verified per the survey data during survey acceptance. 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 908-601-2940. Thank you for your assistance with this matter.

Regards,
Jeff Marshall

--

Jeff Marshall
Certified Hydrographer/Physical Scientist
NOAA's Office of Coast Survey
Atlantic Hydrographic Branch
439 West York St.
Norfolk, VA 23435
Office Phone: 757-364-7464
Telework Phone: 908-601-2940
Email: jeffery.marshall@noaa.gov

F00709_DtoN_1to7.zip



Jeffery Marshall - NOAA Federal <jeffery.marshall@noaa.gov>

Re: Guanica, PR survey depths shoaler than charted tabulated

1 message

Lou Licate - NOAA Navigation Manager

Wed, Nov 4, 2020 at 11:14

<louis.licate@noaa.gov>

AM

To: Jeffery Marshall - NOAA Federal <jeffery.marshall@noaa.gov>

Cc: AHB Chief - NOAA Service Account <ahb.chief@noaa.gov>, Castle Parker - NOAA Federal <castle.e.parker@noaa.gov>

Hi Jeff-

I will forward this to USACE project managers to get their input but I dont think they will have much input as this area hasn't been surveyed for a very long time. Thanks!

Lou Licate

NOAA Navigation Manager

Florida, Puerto Rico, & U.S. Virgin Islands

[909 SE 1st AVE](#)

[Room 432](#)

[Miami, FL 33131](#)

[202-253-9536](#)

On Wed, Nov 4, 2020 at 10:57 AM Jeffery Marshall - NOAA Federal

<jeffery.marshall@noaa.gov> wrote:

Good morning Louis,

I am currently reviewing NOAA survey F00709, which was a Hurricane Maria response survey acquired in the entrance and auxiliary channels of Bahia de Guanica on October 7, 2017. During my review I have identified areas within the federally maintained channels (DRGARE) that were found to have shoaler soundings than the tabulated channel limits currently published on ENC US5PR63M. See attached screenshots. All depths are in meters.

Note: There is not complete multibeam coverage in the areas identified above as the survey was a mix of 100% and 200% side scan sonar coverage with simultaneous multibeam acquisition.

Please let me know if you have any additional questions or require further information.

Regards,
Jeff Marshall

--

Jeff Marshall
Certified Hydrographer/Physical Scientist
NOAA's Office of Coast Survey
Atlantic Hydrographic Branch
439 West York St.
Norfolk, VA 23435
Office Phone: 757-364-7464
Telework Phone: 908-601-2940
Email: jeffery.marshall@noaa.gov

From: [OCS NDB - NOAA Service Account](#)
To: [Jeffery Marshall - NOAA Federal](#)
Cc: [AHB Chief](#); [Castle E Parker](#); [Douglas Wood - NOAA Federal](#); [Louis Licate - NOAA Federal](#); [Corey Allen](#); [_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](#); [Craig Winn](#); [James M Crocker](#); [Kevin Jett - NOAA Federal](#); [Matt Kroll](#); [Michael Gaeta](#); [NSD Coast Pilot](#); [PHB Chief](#); [William Winner](#)
Subject: Fwd: F00709 DtoNs 1 to 7 Submission to NDB
Date: Thursday, November 5, 2020 4:04:33 PM
Attachments: [F00709 DtoN_1to7.zip](#)

DD-33398 has been registered by the Nautical Data Branch and directed to Products Branch G for processing.

The DtoNs reported are several shoals in Bahia de Guanica, PR.

The following chart has been assigned to the record:
25679 KAPP 405

The following ENC's have been assigned to the record:
US5PR63M
US4PR1BF

References:
F00709
S-I950-TJ-17

This DtoN was found during review at AHB.

Nautical Data Branch/[Marine Chart Division](#)/
Office of Coast Survey/[National Ocean Service](#)/
[National Oceanic and Atmospheric Administration](#)
[United States Department of Commerce](#)
Contact: ocs.ndb@noaa.gov

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

From: **Jeffery Marshall - NOAA Federal** <jeffery.marshall@noaa.gov>
Date: Thu, Nov 5, 2020 at 6:56 AM
Subject: F00709 DtoNs 1 to 7 Submission to NDB
To: OCS NDB - NOAA Service Account <ocs.ndb@noaa.gov>
Cc: AHB Chief - NOAA Service Account <ahb.chief@noaa.gov>, Castle Parker - NOAA Federal <castle.e.parker@noaa.gov>, Douglas Wood - NOAA Federal <douglas.wood@noaa.gov>, Louis Licate - NOAA Federal <Louis.Licate@noaa.gov>, Corey Allen - NOAA Federal <corey.allen@noaa.gov>

Good day,

Please find attached a compressed file for survey F00709, part of Project: S-I369-TJ-17. The DtoN 1-7 submission includes seven (7) survey depths that are shoaler than currently charted soundings that lie just outside the primary channel. The submitted features are located in and near Bahia De Guanica, Puerto Rico. The submission to Nautical Data Branch (NDB) and Marine Chart Division (MCD) is intended for chart application.

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If you have any questions, please contact me via email or phone 908-601-2940. Thank you for your assistance with this matter.

Regards,
Jeff Marshall

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Jeff Marshall
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Atlantic Hydrographic Branch
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Norfolk, VA 23435
Office Phone: 757-364-7464
Telework Phone: 908-601-2940
Email: jeffery.marshall@noaa.gov

APPROVAL PAGE

F00709

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
- 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