

D00258

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

DESCRIPTIVE REPORT

Type of Survey: Reconnaissance

Registry Number: D00258

LOCALITY

State(s): Texas

General Locality: Western Gulf of Mexico

Sub-locality: Davis

2018

CHIEF OF PARTY
Erin Diurba

LIBRARY & ARCHIVES

Date:

HYDROGRAPHIC TITLE SHEET

D00258

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): **Texas**

General Locality: **Western Gulf of Mexico**

Sub-Locality: **Davis**

Scale: **10000**

Dates of Survey: **10/13/2018 to 10/14/2018**

Instructions Dated: **10/05/2018**

Project Number: **S-K949-MIST-18**

Field Unit: **MIST**

Chief of Party: **Erin Diurba**

Soundings by: **Teledyne RESON SeaBat T20-P (MBES)**

Imagery by: **Teledyne RESON SeaBat T20-P (MBES 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/>.

DESCRIPTIVE REPORT MEMO

February 08, 2019

MEMORANDUM FOR: Pacific Hydrographic Branch

THROUGH: Erin Diurba
Team Lead, NOAA

FROM: Erin Diurba
Sheet Manager, NOAA

SUBJECT: Submission of Survey D00258

NOAA Flower Garden Banks National Marine Sanctuary (FGBNMS) has partnered with Bureau of Ocean Energy Management (BOEM) on a series of multibeam mapping projects of BOEM's No Activity Zones (NAZ) in the western Gulf of Mexico. Data from these surveys will support BOEM decision making on updates to the NAZs. FGBNMS requested multibeam mapping support from Navigation Response Branch's multibeam Mobile Integrated Survey Team (MB-MIST). A VDatum separation model was created for the survey area.

Emma Hickerson requested XYZ and GeoTiff products for each sheet. Her intent was to have the data imported into the FGNMS GIS database.

All soundings were reduced to Mean Lower Low Water using VDatum. The horizontal datum for this project is World Geodetic System (WGS) 1984. The projection used for this project is Universal Transverse Mercator (UTM) Zone 15.

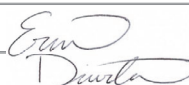
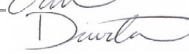
There is no Vertical Control requirement for this project. However, the vertical control method used for this survey was VDatum SEP model "2018_BOEM_NAD83-MLLW_NSPMVD_500m2_EPSG6344" and the vertical datum for this project is MLLW. The vertical uncertainty for this model is 12.5cm.

All survey systems and methods utilized during this survey were as described in S-K949-MIST-18_DAPR.

There were no DTONs created for this survey.

This survey does meet charting specifications and is adequate to supersede prior data. The survey went smoothly with no POS or IMU drop puts.

Vertical Control - The field first surveyed to the ellipse using GNSS real time positioning correctors (RTX) and then reduced the data to MLLW using the above mentioned VDatum separation model.

Metadata for Survey D00258	
Project	S-K949-MIST-18
Survey	D00258
State	Texas
Locality	Western Gulf of Mexico
Sub-Locality	Davis
Scale of Survey	1:10000
Sonars Used	Teledyne RESON Seabat T20P (MBES)
Horizontal Datum	World Geodetic System (WGS) 1984
Vertical Datum	Mean Lower Low Water
Vertical Datum Correction	VDatum
Projection	Projected UTM 15
Field Unit	MIST
Survey Dates	10/13/2018 - 10/14/2018
Chief of Party	Erin Diurba  DIURBA.ERIN.SCHULER.1 462729002
Submission Date	02/08/2019  2019.02.11 11:24:11 -06'00'

APPROVAL PAGE

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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