

D00229

NOAA Form 76-35A

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

DESCRIPTIVE REPORT

Type of Survey: Natural Disaster Response

Registry Number: D00229

LOCALITY

State: Texas

General Locality: Corpus Christi

Sub-locality: Corpus Christi Shipping Channel

2017

CHIEF OF PARTY
James Kirkpatrick

LIBRARY & ARCHIVES

Date:

HYDROGRAPHIC TITLE SHEET

D00229

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: **Texas**

General Locality: **Corpus Christi**

Sub-Locality: **Corpus Christi Shipping Channel**

Scale: **1: 10,000**

Dates of Survey: **08/30/2017 – 09/04/2017**

Instructions Dated: **08/30/2017**

Project Number: **S-K914-NRT2-17**

Field Unit: **Navigation Response Team 2**

Chief of Party: **James Kirkpatrick**

Soundings by: **Multibeam Echo Sounder**

Imagery by: **Side Scan Sonar**

Verification by: **Pacific Hydrographic Branch**

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

Remarks:

The purpose of this survey was to respond to requests for hydrographic surveys to reopen the channels in Corpus Christi, TX due to the effects of Hurricane Harvey. The data contains spurious depths that were not cleaned during processing and should be examined thoroughly by the end user before being incorporated. 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

October 24, 2017

MEMORANDUM FOR: Pacific Hydrographic Branch

FROM: James Kirkpatrick
Team Lead, Navigation Response Team 2,
NRT2

SUBJECT: Submission of Survey D00229

Hurricane Harvey response. Survey requested by United States Coast Guard (USCG) and United States Army Corps of Engineers (USACOE).

All products were disseminated to the USACOE as well as the Port of Corpus Christi.

Soundings were reduced to Mean Lower Low Water (MLLW) using observed tides from 8773037, 8773259, 8773701, 8774230, 8775237, 8775296, 8775792, 8776604, 8777812, 8779748, 8779749 and 8779770 and TCARI provided by CO-OPS from a 2017 survey of this area K917NRT22017_CC_to_MatBay.tc .

All survey systems and methods utilized during this survey were as described in S-K914-NRT2-17_DAPR.xml. Exception- Multibeam data was reprocessed using new Pitch, Roll and Yaw values as well as Dynamic Draft values when it was discovered that the original values did not adequately represent the true corrections. New values can be found in the DAPR appendices in "S-K914-NRT2-17\D00229\Project_Reports\Data_Acquisition_&_Processing_Report\Appendices\Dynamic_Draft_2018.png" and "S-K914-NRT2-17_Corpus_Christi\S-K914-NRT2-17\D00229\Project_Reports\Data_Acquisition_&_Processing_Report\Appendices\MBES_Cal_2018.pdf".

There were no DTONs created for this survey.

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

This survey was completed at the request of the USCG and USACOE to assist with Post- Hurricane Harvey port assessments. NRT2 arrived in Corpus Christi, Texas and was immediately tasked by the USACOE to augment their survey operations by running center and quarter channel lines in the Corpus Christi shipping channel. Upon completion of the channel USACOE requested assistance in locating a crane boom that had broken off of an oil drill ship in the vicinity of Aransas Pass. NRT2 successfully located the boom and proceeded to assist the USCG place a buoy over the area to aid in the removal of the obstruction. NRT2 was also tasked with investigating the area around the north and south jetties to determine if any loose rocks or impediments had fallen off of the jetties. One area of interest was discovered where a rock outcropping had

encroached near the channel off of the south jetty. Least depths obtained by MBES are deeper than currently charted depths. NRT2's recommendation on this area was sent to the USACOE as well as Port of Corpus Christi partners. NRT2 also investigated the debris field left under the drill ship Paragon which had collided with the south jetty. SSS contacts were forwarded to the USACOE and Port of Corpus Christi Partners.

This survey does not meet charting specifications and is not adequate to supersede prior data. This response survey was not intended to supersede prior data with the exceptions of dangers to navigation, per the project instructions.

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

Metadata for Survey D00229	
Project	S-K914-NRT2-17
Survey	D00229
State	Texas
Locality	Corpus Christi
Sub-Locality	Corpus Christi
Scale of Survey	1:10000
Sonars Used	Kongsberg EM2040C Multibeam Echosounder Edgetech 4125 Side Scan Sonar
Horizontal Datum	North American Datum of 1983 (NAD83)
Vertical Datum	Mean Lower Low Water
Vertical Datum Correction	TCARI
Projection	Projected UTM 14
Field Unit	NRT2
Survey Dates	08/30/2017 - 09/04/2017
Chief of Party	James Kirkpatrick
Submission Date	10/24/2017

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UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Ocean Service
Silver Spring, Maryland 20910

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: March 01, 2018

HYDROGRAPHIC BRANCH: Pacific

HYDROGRAPHIC PROJECT: S-K914-NRT2-2017

HYDROGRAPHIC SHEET: D00229

LOCALITY: Corpus Christi Bay, Corpus Christi, TX

TIME PERIOD: August 30 to September 4, 2017

TIDE STATION USED: 8773701 Port O'Connor, TX

Lat. 28° 26.8' N Long. 96° 23.8' W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 0.222 meters

TIDE STATION USED: 8773767 Matagorda Bay Entrance, TX

Lat. 28° 25.6' N Long. 96° 19.8' W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 0.365 meters

TIDE STATION USED: 8775237 Port Aransas, TX

Lat. 27° 50.3' N Long. 97° 04.4' W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 0.302 meters

TIDE STATION USED: 8775296 USS Lexington, TX

Lat. 27° 48.7' N Long. 97° 23.4' W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 0.177 meters

REMARKS: RECOMMENDED GRID

Please use the TCARI grid "D00229_D00231_Final.tc" as the final grid for project S-K914-NRT2-2017, D00229, during the time period between August 30 and September 4, 2017.

Refer to attachments for grid information.

Note 1: Provided time series data are tabulated in metric units (meters), relative to MLLW and on Greenwich Mean Time on the 1983-2001 National Tidal Datum Epoch (NTDE).

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CHIEF, PRODUCTS AND SERVICES BRANCH



Final TCARI Grid for S-K914-NRT2-2017, D00229 Corpus Christi Bay, Corpus Christi, TX

8773701 Port O'Connor

8773767 Matagorda Bay Entrance Channel, TX

8775296 USS Lexington
Corpus Christi

8775237 Port Aransas

Gulf of Mexico

APPROVAL PAGE

D00229

Data did not meet current specifications as determined by the OCS survey acceptance review process. The survey did not meet specifications mainly due to the minimal data cleaning and processing associated with a response survey not intended to be used for chart updates. The survey will not be applied to NOAA charting products.

The following products will be sent to NCEI for archive:

- D00229_DR.pdf
- 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 to current OCS specifications and procedures.

Approved: _____

Kurt Brown

Physical Scientist, Pacific Hydrographic Branch

The survey has not been approved for chart updates. The data will be archived at NCEI so that it can be made available for other uses.

Approved: _____

CDR Olivia Hauser, NOAA

Chief, Pacific Hydrographic Branch