

D00220

NOAA Form 76-35A

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

DESCRIPTIVE REPORT

Type of Survey: Investigation

Registry Number: D00220

LOCALITY

State: Texas

General Locality: Galveston Bay

Sub-locality: Pier 21

2016

CHIEF OF PARTY
Dan Jacobs

LIBRARY & ARCHIVES

Date:

HYDROGRAPHIC TITLE SHEET

D00220

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: **Galveston**

Sub-Locality: **Pier 21**

Scale: **1: 10,000**

Date of Survey: **11/01/2016**

Instructions Dated: **01/06/2017**

Project Number: **S-K944-NRT4-17**

Field Unit: **Navigation Response Team 4**

Chief of Party: **Dan Jacobs**

Soundings by: **Multibeam Echo Sounder**

Imagery by:

Verification by: **Pacific Hydrographic Branch**

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

H-Cell Compilation Units: **N/A**

Remarks:

The purpose of this survey is to confirm water depths at Pier 21 in the Port of Galveston to support arrival of the Naval submarine USS DALLAS in April 2017. 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. 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, 2017

MEMORANDUM FOR: Pacific Hydrographic Branch

FROM: Dan Jacobs *Dan Jacobs*
Team Lead, NRT4

SUBJECT: Submission of Suvey D00220

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Date: 2017.10.13
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USCG has requested an investigation to confirm the water depths at Pier 21 in the Port of Galveston to support arrival of the Naval submarine USS DALLAS in April 2017. Survey limits and methods (i.e., sensors used) will be determined by the Team Lead in consult with the NRB Chief and regional NOAA Navigation Manager. The data from this survey is not intended to meet NOAA charting specifications, and is not intended to be applied to the nautical chart with the exception of hazards to navigation (i.e., DTONs), subject to branch review. As such, the field unit should submit a DR Memo in lieu of an XML Descriptive Report.

A sounding plot of the Galveston Channel (Chart 11324) adjacent to Pier 21 was provided to Mr. Bunn for dissemination to all interested parties. It accompanies this report.

Soundings were reduced to Mean Lower Low Water (MLLW) using observed tides from 8770613, 8771013, 8771341, 877140 and tide zones provided by CO-OPS from a 2016 survey of this area, K414NRT42016.tc.

All survey systems and methods utilized during this survey were as described in NRT4's 2016 DAPR, submitted with H12387's survey sheet earlier this year.

All data was reviewed for DTON and none were found.

Multibeam echo sounder data was collected in the vicinity of Pier 21 per Navigation Manager's email correspondence with USN (USS Dallas personnel). No obstructions or shoaling were observed within the channel. Data reflects state of sea floor on day surveyed. USS Dallas' minimum draft was not provided in the original request. Survey data should be archived at NCEI and the DR memo forwarded to HSD.

This survey does not meet charting specifications and is not adequate to supersede prior data. Many sound speed and "cross talk" artifacts were deleted resulting in density holidays throughout the 50 cm grid. Cross talk artifacts are believed to have been the result of numerous tugs' and ships' fish finders interfering with S1211's MBES in this high-traffic, industrial waterway.

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



APPROVAL PAGE

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Data did not meet current specifications as determined by the OCS survey acceptance review process. The survey did not meet specifications mainly due to sound speed issues and cross talk artifacts. The survey will not be applied to NOAA charting products.

The following products will be sent to NCEI for archive:

- D00220_DR_Memo.pdf
- Processed survey data and records
- D00220_GeoImage.pdf

The survey evaluation and verification has been conducted according to current OCS specifications and procedures.

Approved: _____

Grant Froelich

Hydrographic Team Lead, Pacific Hydrographic Branch

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

Approved: _____

Peter Holmberg

Acting Chief, Pacific Hydrographic Branch