

W00663

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

DESCRIPTIVE REPORT

Type of Survey: Basic Hydrographic Survey

Registry Number: W00663

LOCALITY

State(s): Virginia

General Locality: Approaches to Norfolk

Sub-locality: Naval Station Norfolk

2022

CHIEF OF PARTY
Robert O'Malley

LIBRARY & ARCHIVES

Date:

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION		REGISTRY NUMBER:
HYDROGRAPHIC TITLE SHEET		W00663
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):	Virginia	
General Locality:	Approaches to Norfolk	
Sub-Locality:	Naval Station Norfolk	
Scale:	10000	
Dates of Survey:	07/06/2022 to 07/07/2022	
Instructions Dated:	10/12/2022	
Project Number:	ESD-AHB-22	
Field Unit:	US Navy	
Chief of Party:	Robert O'Malley	
Soundings by:	Teledyne RESON SeaBat 7101 (MBES)	
Imagery by:	N/A	
Verification by:	Pacific Hydrographic Branch	
Soundings Acquired in:	meters at Mean Lower Low Water	
Remarks: <i>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 18N, MLLW. All references to other horizontal or vertical datums in this report are applicable to the processed hydrographic data provided by the field unit.</i>		

DESCRIPTIVE REPORT MEMO

October 12, 2022

MEMORANDUM FOR: Atlantic Hydrographic Branch

FROM: Report prepared by AHB on behalf of field unit
Bob O'Malley
Surveying Team Leader, Hydrographic Branch, NAVFAC-
MIDLANT

SUBJECT: Submission of Survey W00663

Data was surveyed by Naval Facilities Engineering Command in 2022.

An xyz dataset was provided to the processing branch for charting purposes. The processing branch created a 2-meter surface for archival.

The vertical datum for this project is Mean Lower Low Water. 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 18.

Data was transformed horizontally from NAD83 Virginia State Plane South in feet to NAD83(2011) UTM Zone 18N in meters using NOAA's VDatum Transformation Tool (v.4.4.2). Data was provided at chart datum (MLLW) in feet and was converted to meters using the VDatum Tool. Horizontal positions were obtained via Applanix POS/MV with MRU.

The survey was conducted using Class 1 Hydrographic survey methods and accuracies outlined in the US Army Corps of Engineers Hydrographic Surveying Manual. All soundings were recorded using a 7101 multi-beam sonar.

Data was converted from an xyz file to a two-meter gridded surface using CARIS BDB 5.5.

Uncertainty was calculated by the processing branch using the following equation: $1\text{m} + (1\% * \text{depth})$.

All data were reviewed for DTONs and none were identified in this survey.

Hydrographic Branch, NAVFAC-MIDLANT acquired the data outlined in this report. Additional documentation from the data provider may be attached to this report.

This survey does meet charting specifications and is adequate to supersede prior data.