

D00244

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: D00244

LOCALITY

State: New York

General Locality: Raritan Bay

Sub-locality: Raritan Bay

2017

CHIEF OF PARTY
LTJG Dylan Kosten

LIBRARY & ARCHIVES

Date:

HYDROGRAPHIC TITLE SHEET

D00244

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: **New York**

General Locality: **Raritan Bay**

Sub-Locality: **Raritan Bay**

Scale: **1: 15,000**

Dates of Survey: **12/07/2017 to 12/07/2017**

Instructions Dated: 12/05/2017

Project Number: **S-B931-NRT5-17**

Field Unit: **NRT5**

Chief of Party: **LTJG Dylan Kosten**

Soundings by: **Multibeam Echo Sounder**

Imagery by:

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

January 02, 2018

MEMORANDUM FOR: Pacific Hydrographic Branch

FROM: LTJG Dylan Kosten
Team Lead, Navigation Response Team 5, Navigation Response Team 5

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Digitally signed by
KOSTEN.DYLAN.ANDREW.1504527405
Date: 2018.07.16 09:09:56 -0400'

SUBJECT: Submission of Suvey D00244

The purpose of survey D00244 was to respond to a USCG request for assistance locating a submerged sailboat in the vicinity of Raritan Bay Channel Buoy 10, on the northern edge of the channel. The data from this survey are not intended to meet NOAA charting specifications, and are not intended to be applied to the nautical chart with the exception of hazards to navigation (i.e., DTOns), and potential anti-DTOns.

NRT5 provided a geospatial PDF of the area to the USCG that included a multibeam surface and derived soundings.

Soundings were reduced to Mean Lower Low Water (MLLW) using verified tides from NWLON station Sandy Hook, NJ (8531680) and a TCARI grid provided by CO-OPS.

Object Detection Coverage was acquired over the wreck using a Kongsberg EM 2040C multibeam sonar on survey vessel S3007. Watercolumn data was acquired concurrently to aid in resolving least depths. All data was processed using CARIS HIPS and SIPS version 10.4. The DAPR for Navigation Response Team 5 was still being compiled at the time of this survey and will be sent in with the next survey package submission for H13092.

One DTON was submitted for the least depth of the sailboat's mast. This wreck sits just outside of the Raritan Bay East Reach. The mast of the wreck, found with watercolumn data, is about 15 feet shoaler than the soundings which surround it. See Appendix III for a copy of this report and relating correspondence.

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

The charted position of the wreck was found to be accurate. The hydrographer recommends removing "Position Approximate" designation for the wreck.

This survey does not meet charting specifications and is not adequate to supersede prior data. 1

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



Metadata for Survey D00244	
Project	S-B931-NRT5-17
Survey	D00244
State	New York
Locality	Raritan Bay, NY
Sub-Locality	Raritan Bay
Scale of Survey	1:5000
Sonars Used	Kongsberg EM2040C (Multibeam Sonar)
Horizontal Datum	North American Datum of 1983 (NAD83)
Vertical Datum	Mean Lower Low Water
Vertical Datum Correction	TCARI
Projection	Projected UTM 18
Field Unit	Navigation Response Team 5
Survey Dates	12/07/2017
Chief of Party	LTJG Dylan Kosten
Submission Date	01/08/2018

¹ It was determined during office review that the data and associated products do meet specifications and are adequate to supersede prior data.

D00244 Danger to Navigation Report

Registry Number: D00244
State: New York
Locality: Raritan Bay, NY
Sub-locality: Raritan Bay
Project Number: S-B931-NRT5-17
Survey Date: 12/7/2017

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
12401	9th	07/01/2007	1:15,000 (12401_1)	[L]NTM: ?

* Correction(s) - source: last correction applied (last correction reviewed--"cleared date")

Features

No.	Name	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	DTON - 3.75 meter wreck	Wreck	3.75 m	40° 29' 27.5" N	074° 06' 11.9" W	---

1 - Dangers To Navigation

1.1) DTON - 3.75 meter wreck

DANGER TO NAVIGATION

Survey Summary

Survey Position: 40° 29' 27.5" N, 074° 06' 11.9" W
Least Depth: 3.75 m (= 12.30 ft = 2.050 fm = 2 fm 0.30 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2017-341.00:00:00.000 (12/07/2017)
Dataset: D00244_Final_Feature_File.000
FOID: US 0000000411 00001(02260000019B0001)
Charts Affected: 12401_1

Remarks:

WRECKS/remrks: Submerged sailboat. Least depth found using water column data.

Feature Correlation

Source	Feature	Range	Azimuth	Status
D00244_Final_Feature_File.000	US 0000000411 00001	0.00	000.0	Primary

Hydrographer Recommendations

Update wreck with least depth

Arithmetically-Rounded Depth (Unit-wise Affected Charts):

12ft (12401_1)

S-57 Data

Geo object 1: Wreck (WRECKS)
Attributes: CATWRK - 2:dangerous wreck
 QUASOU - 6:least depth known
 SORDAT - 20171207
 SORIND - US,US,graph,D00244
 TECSOU - 3:found by multi-beam
 VALSOU - 3.749 m

WATLEV - 3:always under water/submerged

Feature Images

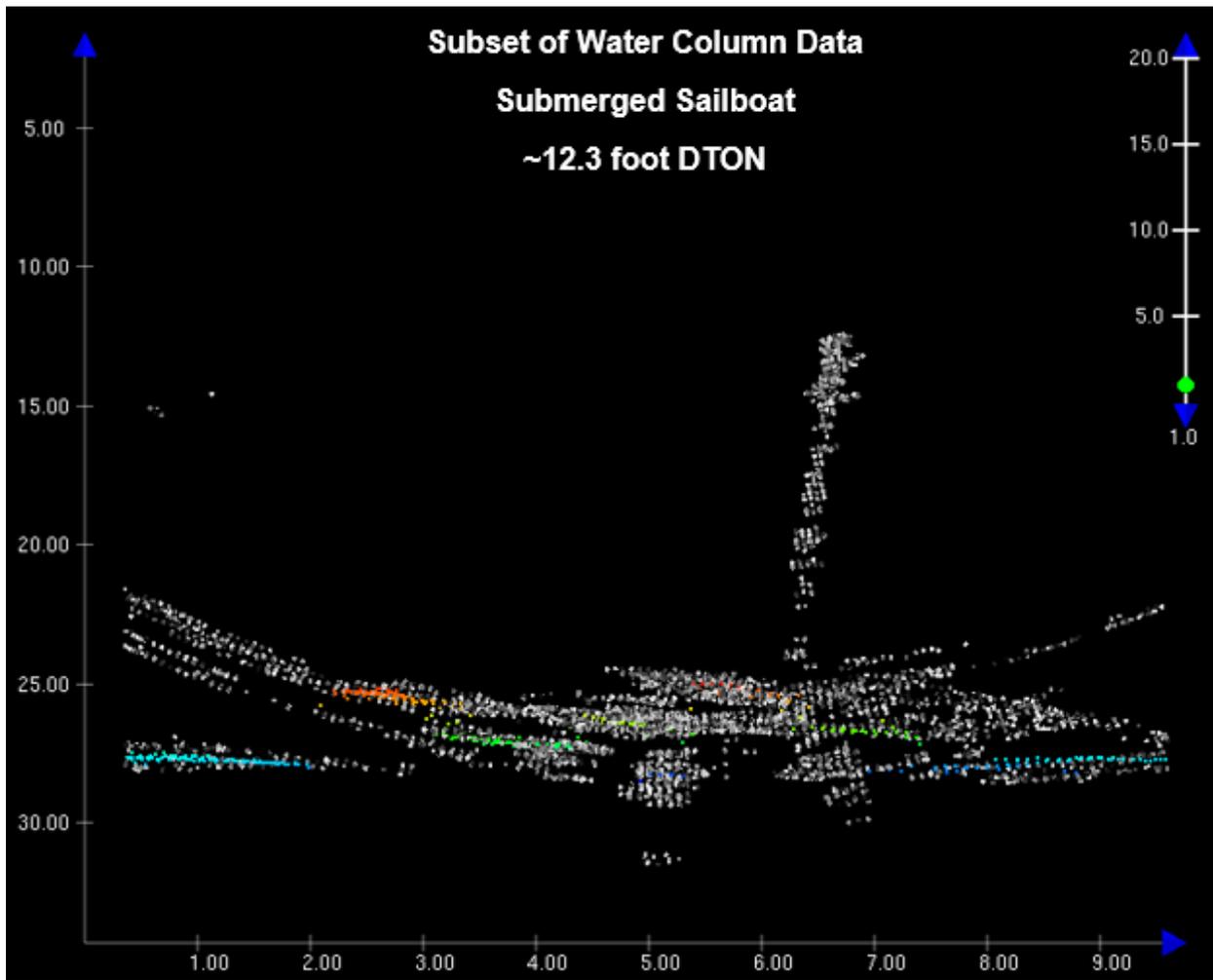


Figure 1.1.1

APPROVAL PAGE

D00244

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 product

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