

D00246

NOAA Form 76-35A

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

DESCRIPTIVE REPORT

Type of Survey: Field Examination

Registry Number: D00246

LOCALITY

State: Maine

General Locality: Gulf of Maine

Sub-locality: 3NM off Southeast from Kennebunkport, ME

2018

CHIEF OF PARTY
LTJG Dylan Kosten

LIBRARY & ARCHIVES

Date:

HYDROGRAPHIC TITLE SHEET

D00246

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: **Maine**

General Locality: **Gulf of Maine**

Sub-Locality: **3 NM off Southeast from Kennebunkport, ME**

Scale: **1:10,000**

Dates of Survey: **03/12/2018**

Instructions Dated: **03/09/2018**

Project Number: **S-A921-NRT5-18**

Field Unit: **Navigation Response Team 5**

Chief of Party: **LTJG Dylan Kosten**

Soundings by: **Multibeam Echo Sounder**

Imagery by: **Multibeam Echo Sounder Acoustic 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

March 29, 2018

MEMORANDUM FOR: Pacific Hydrographic Branch

FROM: Michael Bloom
Physical Scientist Technician, Navigation Response Team 5

SUBJECT: Submission of Suvey D00246

This survey was a response to a USCG request for assistance in locating the missing tug MacKintire, which sank off the coast of Kennebunkport, ME.

There were no products created for this survey.

Soundings were reduced to Mean Lower Low Water (MLLW) by calculating GPS tides using VDatum model S-A921_Limits_xyNAD83-MLLW_geoid12b.csar.

All survey systems and methods utilized during this survey were as described in the 2018 S3007 DAPR.

There were no DTONs created for this survey.

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

During acquisition there were issues related to collecting positioning data (see the included acquisition log for further details). This resulted in several lines having vertical offsets with other lines when processed. The lines 0000, 0004, 0006, and 0007 were deleted from the project, however, they are still located in the raw data folder.

Another issue is an offset is present between a surface created using GPS tides and a surface created using predicted tides. It is most likely due to the SBET used being exported into WGS84 instead of NAD83. A new SBET was not made. ¹

The hydrographer recommends charting a new feature.

This survey does not meet charting specifications and is not adequate to supersede prior data. There is a 1.8m offset between a surface created using GPS tides and a surface created using predicted tides. This offset has not been resolved, however the purpose of this survey was not to update any NOAA charts, but to instead locate the missing tug MacKintire. ²

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

Metadata for Survey D00246	
Project	S-A921-NRT5-18
Survey	D00246
State	Maine
Locality	Gulf of Maine
Sub-Locality	3 NM off SouthEast from Kennebunkport, ME
Scale of Survey	1:10000
Sonars Used	YSI CastAway-CTD (Conductivity, Temperature, and Depth Sensor) AML Oceanographic MicroX SVS (Sound Speed System) Applanix POS MV V5 (Positioning and Attitude System) Kongsberg Maritime EM 2040C (MBES)
Horizontal Datum	North American Datum 1983
Vertical Datum	Mean Lower Low Water
Vertical Datum Correction	VDatum
Projection	UTM Zone 19 North
Field Unit	Navigation Response Team 5
Survey Dates	03/12/2018
Chief of Party	LTJG Dylan Kosten
Submission Date	03/29/2018

Signature:

Michael Bloom
(In lieu of LTJG Kosten)

BLOOM.MICHAEL.GR
AHAM.1029463049

Digitally signed by
BLOOM.MICHAEL.GRAHAM.102946
3049
Date: 2019.02.27 14:39:31 -05'00'

1 - The data has been re-processed, using POSpac MMS RTX processing, to adjust datum correctors into NAD83 2011 from WGS84. No change in reduced sounding depths resulted from the shift into NAD83 2011. One further note, the uncertainty values associated with the ERS-MLLW separation model were changed for the final gridded solutions, in line with guidance from the project manager. See correspondence dated 11/14/18 below.

2 - The offset remained, despite shifting the vertical datum from WGS84 to NAD83 2011.



Dylan Kosten - NOAA Federal <dylan.kosten@noaa.gov>

Towing Vessel MacKintire Found

Dylan Kosten - NOAA Federal <dylan.kosten@noaa.gov>

Mon, Mar 12, 2018 at 5:15 PM

To: Chief NRB OCS - NOAA Service Account <chief.nrb.ocs@noaa.gov>, Michael Davidson <michael.davidson@noaa.gov>, Christopher Hare - NOAA Federal <Christopher.Hare@noaa.gov>, MSDPortsmouth@uscg.mil, walter.s.pierce@uscg.mil, Steve Lehmann - NOAA Federal <steve.lehmann@noaa.gov>, william.w.mendenhall@uscg.mil, David Vejar - NOAA Federal <david.vejar@noaa.gov>

Cc: James Crocker - NOAA Federal <james.m.crocker@noaa.gov>, Eli Smith - NOAA Federal <eli.r.smith@noaa.gov>, Michael Bloom - NOAA Federal <michael.g.bloom@noaa.gov>

Good Evening,

I am happy to report that the T/V MacKintire was found by NRT-5 this afternoon by multibeam echosounder.

The tug is located in **142'** of water at position **48° 18' 49.54176" N / 70° 23' 22.020554" W**. The least depth found by water column is **107.2'**. She is laying on her starboard side on a NNE - SSW axis, bow to the North.

Roughly 25' due West of the tug's bow is a piece of debris 2.5' proud of the seafloor and approximately 6' long. There is another piece of debris 12' WNW of the tugs bow of similar size, perhaps slightly smaller.

Please see attached images of the tug. If there are any questions or concerns feel free to reply to this email, or contact me on my personal cell phone at 6094085631.

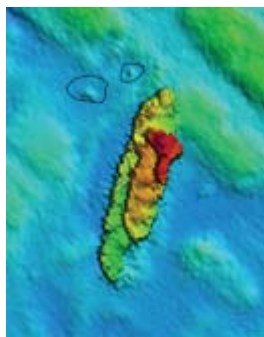
Very Respectfully,

LTJG Kosten

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LT(jg) Dylan A. Kosten
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Work Cell: 718-702-8973
P-Cell: 609-408-5631
Address:
NOAA NRT-5
1 Chelsea Street
New London, CT, 06320

2 attachments



Tug_and_debrs.PNG
511K

Tug_3D.PNG
40K



Adam Argento - NOAA Federal <adam.argento@noaa.gov>

S-A921-NRT5-18; D00246 VDatum zoning uncertainty

3 messages

Adam Argento - NOAA Federal <adam.argento@noaa.gov>

Wed, Nov 14, 2018 at 8:30 AM

To: Christopher Hare - NOAA Federal <christopher.hare@noaa.gov>

Hello Chris,

I'm re-processing the HDCS and surfaces for D00246 so we can develop a chart update letter for a wreck and ingest the surface to the NBS. At your convenience, can you please provide me with the Tide Zoning Uncertainty value for Compute TPU?

Thanks,
Adam

--
Adam Argento, C.H.
Physical Scientist
Pacific Hydrographic Branch
(206) 526-6817

Christopher Hare - NOAA Federal <christopher.hare@noaa.gov>

Wed, Nov 14, 2018 at 9:08 AM

To: Adam Argento - NOAA Federal <adam.argento@noaa.gov>

Adam,

The uncertainty for the Vdatum Sep model is 13.2 cm.

Chris

[Quoted text hidden]

--
Chris Hare
Project Manager
Navigation Response Branch
NOAA's Office of Coast Survey
240-533-0065

Adam Argento - NOAA Federal <adam.argento@noaa.gov>

Wed, Nov 14, 2018 at 9:09 AM

To: Christopher Hare - NOAA Federal <christopher.hare@noaa.gov>

Thank you!

[Quoted text hidden]

APPROVAL PAGE

D00246

Data meets current specifications as determined by the OCS survey acceptance review process. This survey is not getting forwarded on to make chart sounding updates, but will make a chart feature update to identify depth and location of a new WRECKS object. The survey is recommended for inclusion in the NBS.

The following products will be sent to NCEI for archive:

- D00246_DR_Memo.pdf
- Processed survey data and records
- BAG
- GeoImage.PDF

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

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