

W00368

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

DESCRIPTIVE REPORT

Type of Survey: External Source Data

Registry Number: W00368

LOCALITY

State(s): Florida

General Locality: Florida Keys

Sub-locality: Dry Tortugas

2016

NOAA National Geodetic Survey
Remote Sensing Division

LIBRARY & ARCHIVES

Date:

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION		REGISTRY NUMBER:
HYDROGRAPHIC TITLE SHEET		W00368
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):	Florida	
General Locality:	Florida Keys	
Sub-Locality:	Dry Tortugas	
Scale:	N/A	
Dates of Survey:	03/14/2015-03/23/2015	
Project Number:	OSD-RSD-17	
Data Source:	NOAA Remote Sensing Division	
Chief of Party:	NOAA Remote Sensing Division	
Soundings by:	Topo-bathymetric LIDAR	
Imagery by:	NOAA Remote Sensing Division	
Verification by:	Atlantic 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 <https://www.ncei.noaa.gov/>.

Area Surveyed

This topo-bathy lidar survey was acquired by NOAA's National Geodetic Survey Remote Sensing Division (RSD) using a Riegl VQ820G. The data set contains outer coast and inlet data in Dry Tortugas, FL. Survey dates extend from 03/14/2015 to 03/23/2015.

Products delivered to AHB from RSD included a survey 5 meter BAG/CSAR surface, preliminary shoreline and intertidal shapefiles referenced to Mean High Water and Mean Lower Low Water, and orthoimagery.

APPENDIX I

TIDES AND WATER LEVELS

Survey W00368 does not include supplemental tide or water level information.

APPENDIX II

SUPPLEMENTAL SURVEY RECORDS
AND CORRESPONDENCE

National Geodetic Survey

Remote Sensing Division

Topobathy Lidar Survey Report

Project Geographic Location: Dry Tortugas, Florida

RSD Project Number: FL1422J-TB-N

November 21, 2017



National Geodetic Survey

Remote Sensing Division

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1.0 Survey Summary

- RSD Project number: FL1422J-TB-N
- Data acquisition by: NGS' Remote Sensing Division
- Dates of acquisition: March 14- March 23, 2015
- Acquisition system: RIEGL VQ-820-G
 - Lidar system specifications:
 - Arc-like scan pattern
 - System data collection at 520kHz (200,000 measurements/sec)

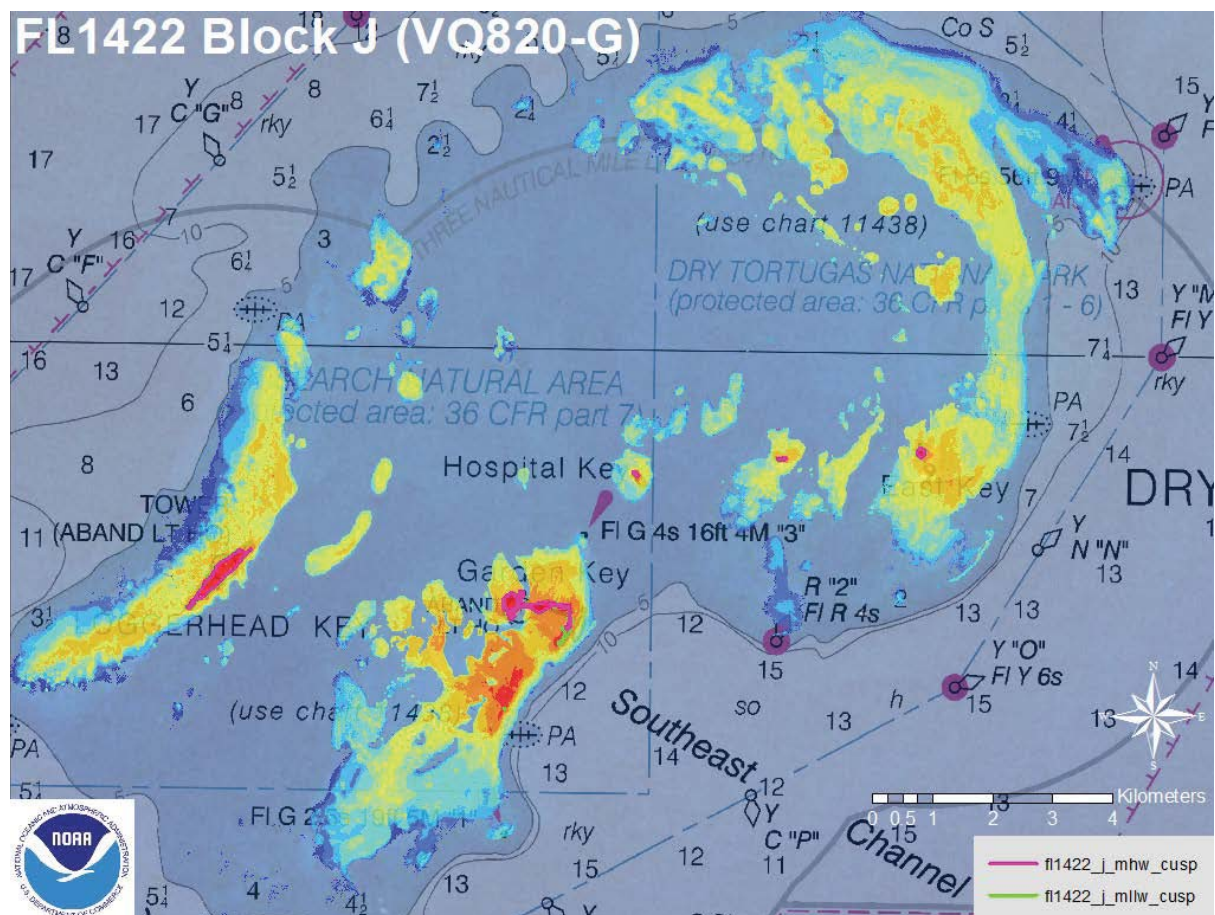


Figure 1. Dry Tortugas, Florida Survey Area

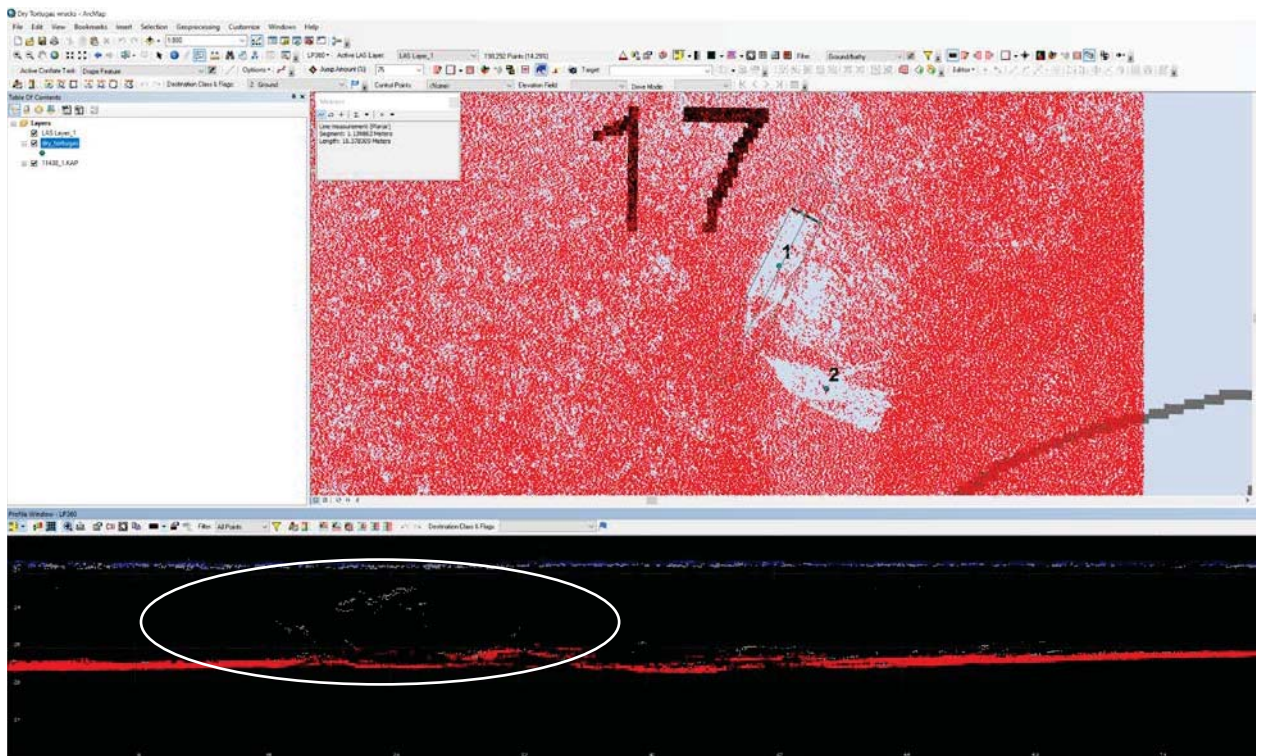
2.0 Submerged Features

1. Submerged Feature: ID2 #1 FL1422j_sub_obj_final

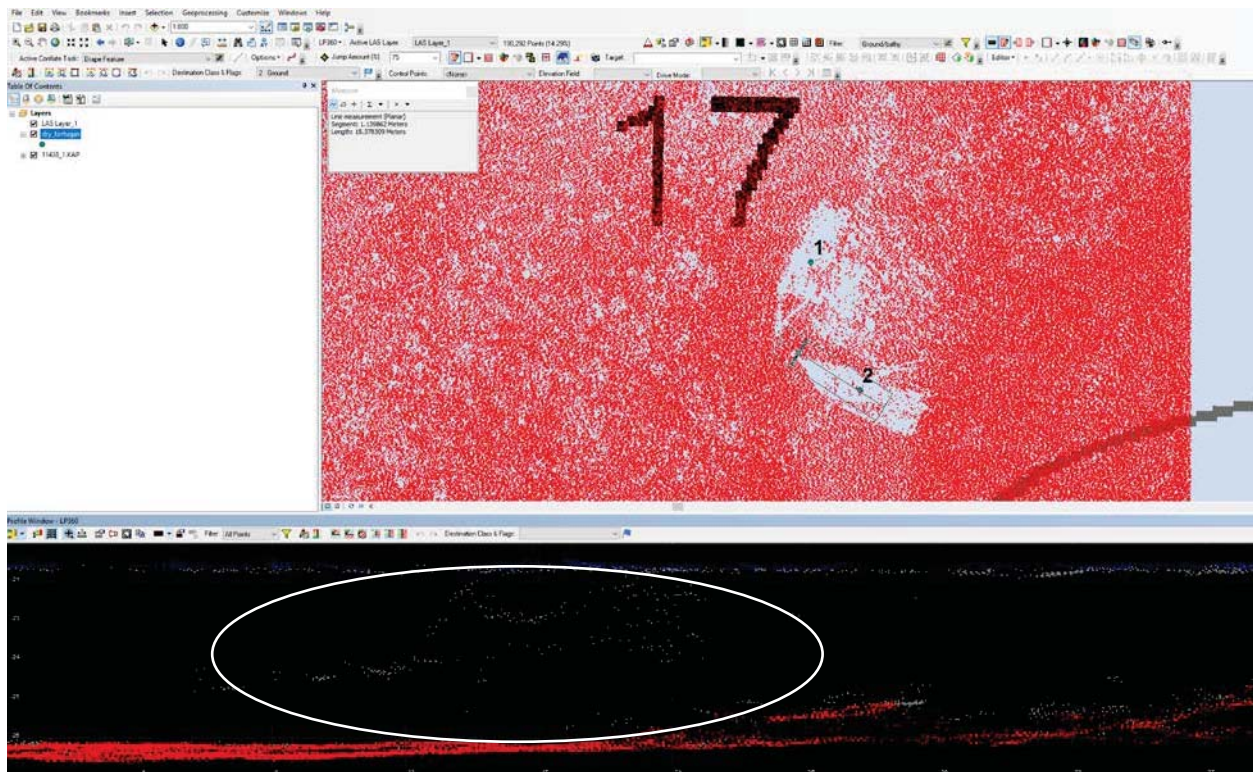
- Geographic Position 1: 24° 37' 25.99"N -82° 56' 33.16"W
- Geographic Position 2: 24° 37' 24.47"N -82° 56' 32.50"W
- Least Depth at MLLW:
 - GP#1: -1.2 m
 - GP#2: -0.21 m
- Approximate dimensions:
 - GP#1: 50m x 14m x 5m off of seafloor (LxWxH)
 - GP #2: 50m x 14m x 5m off of seafloor (LxWxH)
- Multiple objects? Yes
- Submitted to IDMS/NDB? No

Lidar Point Cloud Image:

GP 1.



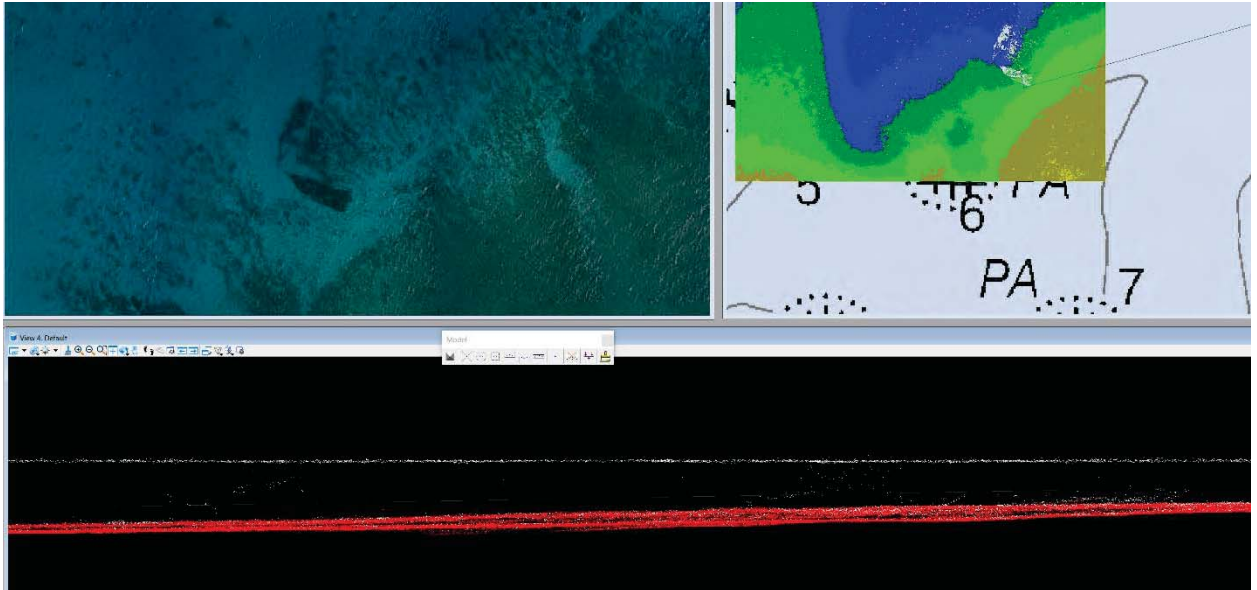
GP 2.



Zoomed out:



Aerial Imagery:



Letter of Approval

This short report and the accompanying data are respectfully submitted.

The Remote Sensing Division's operations contributing to the accomplishment of survey FL1422J-TB-N were conducted under my supervision as well as quality assurance of the outputs. This report and associated data have been closely reviewed and are considered complete and adequate as per the [LIDAR and Digital Cameral Imagery Shoreline Requirements](#) and where possible NOAA's Nautical Chart Manual and the NOS Hydrographic Surveys Specifications and Deliverables (2014).

For



Digitally signed by
KERNS.CHRISTOPHER.MORRISON
.1036922601
Date: 2017.11.21 12:20:33 -05'00'

Michael L. Aslaksen, Jr.

Chief, Remote Sensing Division

NOAA's National Geodetic Survey

APPROVAL PAGE

W00368

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

- W00368_DR.pdf
- Collection of depth varied resolution BAGS
- Processed survey data and records
- W00368_GeoImage.pdf

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 Briana Welton Hillstrom, NOAA Chief,
Atlantic Hydrographic Branch