

D00191

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: D00191

LOCALITY

State: California

General Locality: San Francisco Bay

Sub-locality: San Pablo Strait

2014

CHIEF OF PARTY
Laura Pagano

LIBRARY & ARCHIVES

Date:

HYDROGRAPHIC TITLE SHEET

D00191

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: **California**

General Locality: **San Francisco Bay**

Sub-Locality: **San Pablo Strait**

Scale: **1: 10,000**

Dates of Survey: **04/29/2014 to 05/03/2014**

Instructions Dated: **06/03/2014**

Project Number: **S-L930-NRT6-14**

Field Unit: **Navigation Response Team 6**

Chief of Party: **Laura Pagano**

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: ***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 Geophysical Data Center (NGDC) and can be retrieved via <http://www.ngdc.noaa.gov/>.



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
OFFICE OF COAST SURVEY
Silver Spring, Maryland 20910-3282

June 20, 2014

MEMORANDUM FOR: Chief, Pacific Hydrographic Branch

FROM: Ian Colvert  2014.11.17 08:51:28 -08'00'
Acting Team Lead, Navigation Response Team 6

SUBJECT: Submission of Survey D00191

Survey D00191 was conducted by NRT6 in cooperation with United States Coast Guard and the Contra Costa County Sheriff's Office to locate wreckage and victim of a downed plane in the San Pablo Bay. The incident occurred April 27, 2014.

As a result NRT6 located the wreckage during response operations April 29, 2014. After the main fuselage was recovered, NRT6 completed additional operations May 13, 2014, discovering an uncharted feature very near to the crash sight (within 5 meters) that is likely aircraft wreckage.

NRT6 submitted this uncharted feature as a Danger to Navigation to Office of Coast Survey June 17, 2014.

Soundings were reduced to Mean Lower Low Water (MLLW) using verified tides from tide station Richmond (9414863), and the tide zones used is L930NRT62014CORP.zdf.

All survey systems and methods utilized during this survey were as described in the NRT6 2013 DAPR.

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





Meta Data for D00191

Project: S-L930-NRT6-14

Survey: D00191

State/Locality: California/San Francisco Bay

Sub Locality: San Pablo Strait

Scale of Survey: 1:10,000

Sonars Used: Simrad EM3002

Horizontal Datum: North American Datum of 1983(NAD83)

Vertical Datum: Mean Lower Low Water(MLLW)

Vertical Datum Correction: L930NRT62014CORP.zdf

Projection: NAD83 - UTM Zone 10

Field Unit: NRT6

Survey Dates: 4/29/2014, 5/13/2014

Chief of Party: Laura Pagano

Submission Date: 7/28/2014





UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration

Office Notes:

A Tide Note was not requested for this survey. The data has been reviewed and deemed adequate for charting using the verified tide data.



D00191 DTON REPORT

Registry Number: D00191
State: California
Locality: San Pablo Bay
Sub-locality: San Pablo Strait
Project Number: S-L930-NRT6-14
Survey Date: 05/13/2014

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
18654	44th	01/01/2008	1:40,000 (18654_1)	[L]NTM: ?
18649	66th	02/01/2009	1:40,000 (18649_1)	[L]NTM: ?
18652	34th	09/01/2007	1:80,000 (18652_6)	[L]NTM: ?
18640	25th	08/01/2005	1:207,840 (18640_1)	[L]NTM: ?
18680	31st	06/01/2005	1:210,668 (18680_1)	[L]NTM: ?
18010	21st	03/01/2007	1:811,980 (18010_1)	[L]NTM: ?
18022	35th	08/01/2005	1:868,003 (18022_1)	[L]NTM: ?
18007	33rd	02/01/2009	1:1,200,000 (18007_1)	[L]NTM: ?
18020	38th	10/01/2007	1:1,444,000 (18020_1)	[L]NTM: ?
501	12th	11/01/2002	1:3,500,000 (501_1)	[L]NTM: ?
530	32nd	06/01/2007	1:4,860,700 (530_1)	[L]NTM: ?
50	6th	06/01/2003	1:10,000,000 (50_1)	[L]NTM: ?

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

Features

No.	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	Obstruction	2.38 m	37° 59' 27.7" N	122° 24' 21.7" W	---

1 - Dangers To Navigation

1.1) Profile/Beam 1561/13 / 0212_20140513_183145**DANGER TO NAVIGATION****Survey Summary**

Survey Position: 37° 59' 27.7" N, 122° 24' 21.7" W
Least Depth: 2.38 m (= 7.79 ft = 1.299 fm = 1 fm 1.79 ft)
TPU ($\pm 1.96\sigma$): **THU (TPEh)** ± 1.963 m ; **TVU (TPEv)** ± 0.142 m
Timestamp: 2014-133.18:32:34.941 (05/13/2014)
Survey Line: hdcs_data / nrt6_s3003_em3002_2013 / 2014-133 / 0212_20140513_183145
Profile/Beam: 1561/13
Charts Affected: 18649_1, 18654_1, 18652_6, 18640_1, 18680_1, 18010_1, 18022_1, 18007_1, 18020_1, 501_1, 530_1, 50_1

Remarks:

Navigation Response Team 6, as per request from the United States Coast Guard and Contra Costa County Sheriff, assisted with search operations for crash wreckage of an airplane that went down April 27, 2014.

Officials removed the mangled fuselage and victim. However, additional debris was left behind.

An unidentifiable mound was located in MBES bathymetry very near (within 5 meters) where the fuselage and victim was removed. This feature is suspected as wreckage, with height above bottom ~0.6 meters.

Feature Correlation

Source	Feature	Range	Azimuth	Status
0212_20140513_183145	1561/13	0.00	000.0	Primary

Hydrographer Recommendations

The Hydrographer recommends charting the DTON as an obstruction, least depth known.

Cartographically-Rounded Depth (Affected Charts):

8ft (18649_1, 18654_1, 18652_6)

1 ¼fm (18640_1, 18680_1, 18010_1, 18022_1, 18007_1, 18020_1, 530_1)

2.4m (501_1, 50_1)

S-57 Data

Geo object 1: Obstruction (OBSTRN)

Attributes: CATOBS - 6:foul area
QUASOU - 6:least depth known
SORDAT - 20140513
SORIND - US,US,graph,D00191
TECSOU - 3:found by multi-beam
VALSOU - 2.375 m
WATLEV - 3:always under water/submerged

Feature Images

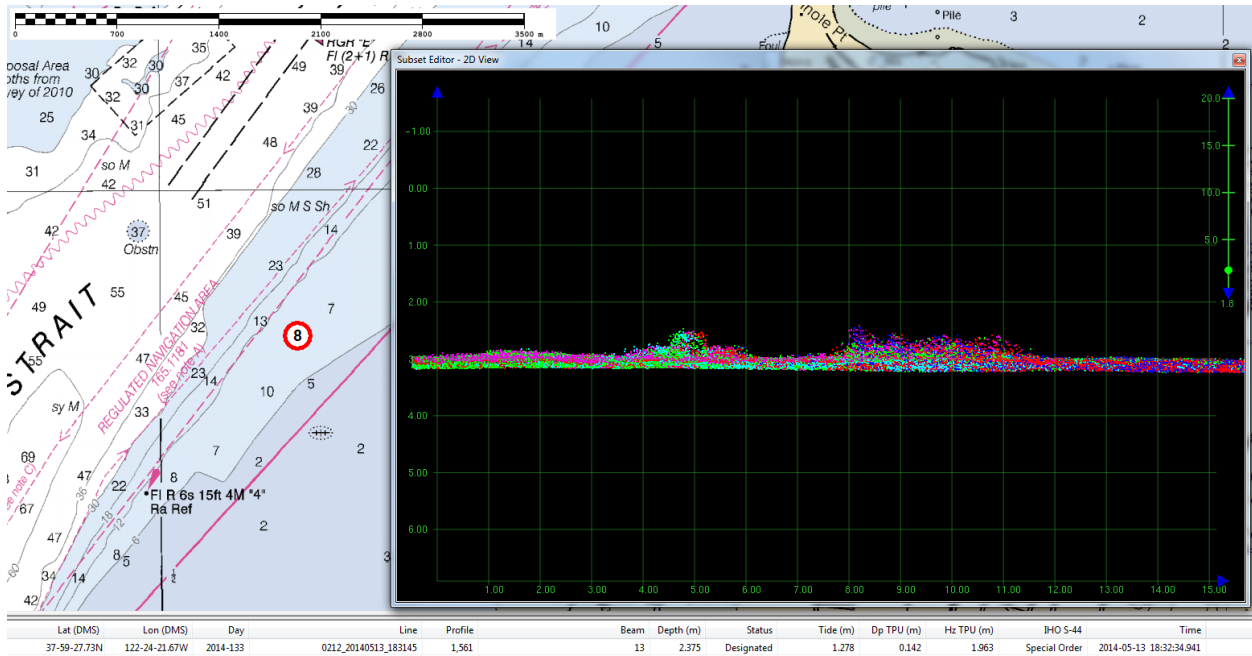


Figure 1.1.1

APPROVAL PAGE

D00191

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 NGDC for archive

- D00191_DR.pdf
- Collection of depth varied resolution BAGS
- Processed survey data and records
- D00191_GeoImage.pdf

The survey evaluation and verification has been conducted according current OCS Specifications.

Approved: _____

Pete Holmberg

Cartographic Team Lead, Pacific Hydrographic Branch

The survey has been approved for dissemination and usage of updating NOAA's suite of nautical charts.

Approved: _____

CDR Benjamin K. Evans, NOAA

Chief, Pacific Hydrographic Branch