

W00456

NOAA Form 76-35A

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

**DESCRIPTIVE REPORT**

Type of Survey: Habitat Mapping Survey

Registry Number: W00456

**LOCALITY**

State: California

General Locality: Channel Islands

Sub-locality: Santa Barbara Island

**2006**

CHIEF OF PARTY  
Unknown

LIBRARY & ARCHIVES

Date:

**HYDROGRAPHIC TITLE SHEET**

**W00456**

**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: **Channel Islands**

Sub-Locality: **Santa Barbara Island**

Scale: **1:20,000**

Dates of Survey: **01/13/2001 to 08/04/2006**

Instructions Dated: **N/A**

Project Number: **ESD-PHB-18**

Field Unit: **Seafloor Mapping Lab, California State University Monterey Bay**

Chief of Party: **Unknown**

Soundings by: **MBES**

Imagery by: **N/A**

Verification by: **Pacific Hydrographic Branch**

Soundings Acquired in: **meters at Mean Lower Low Water**

Remarks:

*The purpose of this survey is to update the nautical chart in the vicinity of Santa Barbara Island, California. All pertinent records for this survey, including the DR, are archived at the National Center for Environmental Information (NCEI).*

## DESCRIPTIVE REPORT MEMO

August 24, 2018

**MEMORANDUM FOR:** Pacific Hydrographic Branch

**FROM:** Kurt Mueller  
Physical Scientist

**SUBJECT:** Submission of Survey W00456

Data were acquired, processed, archived, and distributed by the Seafloor Mapping Lab of the California State University Monterey Bay. The survey is multibeam sonar mapping of white abalone habitat at Santa Barbara Island to be used to estimate the distribution and abundance of endangered white abalone populations.

A 2m BAG was created at the Pacific Hydrographic Branch for compilation to the nautical chart.

VDatum was used to reduce soundings from NAVD88 to Mean Lower Low Water (MLLW).

This report does not include data acquisition and processing information.

There were no DTONs created for this survey.

Seafloor Mapping Lab, California State University at Monterey Bay acquired the data outlined in this report. Data are available at [http://seafloor.csumb.edu/SFMLwebDATA\\_s.htm#CI](http://seafloor.csumb.edu/SFMLwebDATA_s.htm#CI)

This survey will be used to update NOAA navigational products where possible.

The survey is partially adequate to supersede previous data. This survey will be used to update NOAA navigational products where possible.

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

<b>Metadata for Survey W00456</b>	
Project	ESD-PHB-18
Survey	W00456
State	California
Locality	Channel Islands
Sub-Locality	Santa Barbara Island
Scale of Survey	1:20000
Sonars Used	Teledyne RESON SeaBat 8101 (MBES)
Horizontal Datum	North American Datum 1983
Vertical Datum	Mean Lower Low Water
Vertical Datum Correction	VDatum
Projection	Projected UTM 11
Field Unit	Seafloor Mapping Lab, California State University Monterey Bay
Survey Dates	01/13/2001 - 08/24/2006
Chief of Party	Unknown
Submission Date	08/20/2018



Kurt Mueller - NOAA Federal <kurt.mueller@noaa.gov>

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## Channel Islands ESD from CSUMB

4 messages

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**Meredith Payne - NOAA Federal** <meredith.payne@noaa.gov>

Tue, Jul 31, 2018 at 6:39 AM

To: \_NOS OCS HSD ESD Team <esd.team@noaa.gov>

Cc: Corey Allen <Corey.Allen@noaa.gov>, Martha Herzog - NOAA Federal <martha.herzog@noaa.gov>

ESD Team,

I'm in the process of defining sheet limits for *Rainier's* survey of Channel Islands in October. We will be focusing primarily on Santa Rosa and Santa Barbara Islands this year. Cal State Monterey Bay has done previous multibeam work in the area and created multiyear composite DEMs with full FGDC metadata. They can be downloaded here: [http://seafloor.csumb.edu/SFMLwebDATA\\_s.htm#CI](http://seafloor.csumb.edu/SFMLwebDATA_s.htm#CI). xyz data are also available. I am working with the following three rasters: Channel Islands - Santa Rosa Island, Carrington Pt, Channel Islands - Santa Rosa Island, South Point, and Santa Barbara Island. These data about our sheet limits, and are considered mapped by CINMS, however they do not appear in SURDEX and I'm wondering if they have ever been evaluated by NOAA. For the purpose of this year's survey, they will be provided to the ship as previous data but not as junctioning data. It would be great to know if they are deemed suitable for charting purposes.

Thank you!

Sincerely,

Meredith

--

Meredith C. Payne

Physical Scientist,

Hydrographic Surveys Division Operations Branch

National Oceanic & Atmospheric Administration

[1315 East-West Hwy](#), N/CS31

Silver Spring, MD 20910

240-533-0025

Visit our [StoryMap!](#)

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**Kurt Mueller - NOAA Federal** <kurt.mueller@noaa.gov>

Tue, Jul 31, 2018 at 11:20 AM

To: Meredith Payne - NOAA Federal <meredith.payne@noaa.gov>

Cc: \_NOS OCS HSD ESD Team <esd.team@noaa.gov>, Corey Allen <Corey.Allen@noaa.gov>, Martha Herzog - NOAA Federal <martha.herzog@noaa.gov>

Hi Meredith,

Thanks for reaching out. The Cal State data has not yet been ingested into the ESD pipeline or evaluated for charting, but the coverage areas were looked at last year when the ESD Team did some data discovery for the FY18/19 OCS Planned Survey Areas. Here is the link to the google doc we provided for OPS which lists the CSUMB data under the 'West Coast' tab:

<https://docs.google.com/spreadsheets/d/1Hwj0eTTfudr9icOECJck2NvFh3O93PJA56CVV04ooA/edit?usp=sharing>

I will make a note to add that data to our prioritization queue.

Also, PHB just received multiple surveys in the vicinity of CINMS, mostly acquired by the Nautilus. I just sent Brian Mohr outlines for these last week, but it looks like three of them (W00432, W00443 and W00444) might not have been added yet. Please see attached outlines.

I hope this helps -

-Kurt

[Quoted text hidden]

--

Kurt Mueller  
Physical Scientist  
National Oceanic and Atmospheric Administration  
Pacific Hydrographic Branch  
7600 Sand Point Way NE  
Seattle WA 98115  
206-526-6853

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**3 attachments**

 **W00443\_Survey\_Outline.zip**  
274K

 **W00444\_Survey\_Outline.zip**  
11K

 **W00432\_Survey\_Outline.zip**  
308K

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**Kurt Mueller - NOAA Federal** <kurt.mueller@noaa.gov> Tue, Jul 31, 2018 at 4:32 PM

To: Meredith Payne - NOAA Federal <meredith.payne@noaa.gov>

Cc: \_NOS OCS HSD ESD Team <esd.team@noaa.gov>, Corey Allen <Corey.Allen@noaa.gov>, Martha Herzog - NOAA Federal <martha.herzog@noaa.gov>

Hey Meredith,

I checked with Brian Mohr - the surveys I referenced in my previous response (W00432, 443, 444) have been added to SURDEX - sorry for this mix up.

Kurt

[Quoted text hidden]

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**Meredith Payne - NOAA Federal** <meredith.payne@noaa.gov> Wed, Aug 1, 2018 at 1:26 PM

To: Kurt Mueller - NOAA Federal <kurt.mueller@noaa.gov>

Cc: \_NOS OCS HSD ESD Team <esd.team@noaa.gov>, Corey Allen <Corey.Allen@noaa.gov>, Martha Herzog - NOAA Federal <martha.herzog@noaa.gov>

Thank you Kurt --this information was most helpful. If the surveys you sent are in SURDEX I don't see them yet -- maybe a database replication issue... At any rate the W00432 survey is of particular interest, as we will probably pick up some of the same area around Santa Barbara Island this fall. It was great to be able to show Chris Caldwell this footprint.

Sincerely,  
Meredith

[Quoted text hidden]



Kurt Mueller - NOAA Federal <kurt.mueller@noaa.gov>

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## Data use for NOAA nautical charting

10 messages

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**Olivia Hauser - NOAA Federal** <olivia.hauser@noaa.gov>

Tue, Aug 28, 2018 at 5:45 PM

To: cbretz@csumb.edu

Cc: Kurt Mueller - NOAA Affiliate <kurt.mueller@noaa.gov>

Hello Seafloor Mapping Lab representative,

I am a supervisor at NOAA's Office of Coast Survey, the government agency responsible for the update and publishing of the nation's nautical charts. We have recently started using publicly available bathymetric data to update our charts, and came across some data sets on your site that we would like to use. I read over your data policy and two items caught my eye that I was hoping we could talk more about. One is that your data is not to be used for navigation and the other is that while our charts are free and available to anyone, some folks do use our data to create commercial products. We would like to discuss the possibility of using your data to update our charts. Is someone available for a phone conversation sometime this week? Thank you.

V/R, Olivia

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LCDR Olivia Hauser, NOAA  
Chief, Pacific Hydrographic Branch  
Office: 206-526-6835  
Cell: 302-229-3368  
NOAA/NOS/OCS/HSD/PHB  
[olivia.hauser@noaa.gov](mailto:olivia.hauser@noaa.gov)

<https://nauticalcharts.noaa.gov/>

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**Olivia Hauser - NOAA Federal** <olivia.hauser@noaa.gov>

Fri, Aug 31, 2018 at 9:42 AM

To: Carrie Bretz <cbretz@csumb.edu>

Cc: Kurt Mueller - NOAA Affiliate <kurt.mueller@noaa.gov>

Hello,

I will be going to sea for a month starting on Tuesday. Is there someone I can talk to today about this request? I appreciate the support and assistance.

Sincerely,  
Olivia

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**Olivia Hauser - NOAA Federal** <olivia.hauser@noaa.gov>

Fri, Aug 31, 2018 at 2:05 PM

To: Grant Froelich <grant.froelich@noaa.gov>, Kurt Mueller - NOAA Affiliate <kurt.mueller@noaa.gov>, Corey Allen

<corey.allen@noaa.gov>

Hello Corey,

I have emailed this group about using their data and have received no response. I will stay on the lookout, but I am not sure how we want to proceed. This survey directly impacts the RA survey in the channel islands for this October. Thanks.

V/R, Olivia

## Forwarded conversation

Subject: **Data use for NOAA nautical charting**

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From: **Olivia Hauser - NOAA Federal** <[olivia.hauser@noaa.gov](mailto:olivia.hauser@noaa.gov)>  
Date: Tue, Aug 28, 2018 at 5:45 PM  
To: [cbretz@csumb.edu](mailto:cbretz@csumb.edu)  
Cc: Kurt Mueller - NOAA Affiliate <[kurt.mueller@noaa.gov](mailto:kurt.mueller@noaa.gov)>

Hello Seafloor Mapping Lab representative,

I am a supervisor at NOAA's Office of Coast Survey, the government agency responsible for the update and publishing of the nation's nautical charts. We have recently started using publicly available bathymetric data to update our charts, and came across some data sets on your site that we would like to use. I read over your data policy and two items caught my eye that I was hoping we could talk more about. One is that your data is not to be used for navigation and the other is that while our charts are free and available to anyone, some folks do use our data to create commercial products. We would like to discuss the possibility of using your data to update our charts. Is someone available for a phone conversation sometime this week? Thank you.

V/R, Olivia

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LCDR Olivia Hauser, NOAA  
Chief, Pacific Hydrographic Branch  
Office: 206-526-6835  
Cell: 302-229-3368  
NOAA/NOS/OCS/HSD/PHB  
[olivia.hauser@noaa.gov](mailto:olivia.hauser@noaa.gov)

<https://nauticalcharts.noaa.gov/>

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From: **Olivia Hauser - NOAA Federal** <[olivia.hauser@noaa.gov](mailto:olivia.hauser@noaa.gov)>  
Date: Fri, Aug 31, 2018 at 9:42 AM  
To: Carrie Bretz <[cbretz@csumb.edu](mailto:cbretz@csumb.edu)>  
Cc: Kurt Mueller - NOAA Affiliate <[kurt.mueller@noaa.gov](mailto:kurt.mueller@noaa.gov)>

Hello,

I will be going to sea for a month starting on Tuesday. Is there someone I can talk to today about this request? I appreciate the support and assistance.

Sincerely,  
Olivia

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LCDR Olivia Hauser, NOAA  
Chief, Pacific Hydrographic Branch  
Office: 206-526-6835  
Cell: 302-229-3368  
NOAA/NOS/OCS/HSD/PHB  
[olivia.hauser@noaa.gov](mailto:olivia.hauser@noaa.gov)

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**Olivia Hauser - NOAA Federal** <[olivia.hauser@noaa.gov](mailto:olivia.hauser@noaa.gov)>  
To: [grant.froelich@noaa.gov](mailto:grant.froelich@noaa.gov), [kurt.mueller@noaa.gov](mailto:kurt.mueller@noaa.gov)

Mon, Sep 10, 2018 at 7:51 AM

I sent two emails to this group and have not heard back. Is there a phone number?

V/R, Olivia

Sent from my iPhone

Begin forwarded message:

**From:** Olivia Hauser - NOAA Federal <[olivia.hauser@noaa.gov](mailto:olivia.hauser@noaa.gov)>  
**Date:** August 31, 2018 at 17:05:15 AST  
**To:** Grant Froelich <[grant.froelich@noaa.gov](mailto:grant.froelich@noaa.gov)>, Kurt Mueller - NOAA Affiliate <[kurt.mueller@noaa.gov](mailto:kurt.mueller@noaa.gov)>, Corey Allen <[corey.allen@noaa.gov](mailto:corey.allen@noaa.gov)>  
**Subject:** Fwd: Data use for NOAA nautical charting

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**Olivia Hauser - NOAA Federal** <[olivia.hauser@noaa.gov](mailto:olivia.hauser@noaa.gov)>  
To: [grant.froelich@noaa.gov](mailto:grant.froelich@noaa.gov), [kurt.mueller@noaa.gov](mailto:kurt.mueller@noaa.gov)

Mon, Sep 10, 2018 at 7:52 AM

This is for W00456

Sent from my iPhone

[Quoted text hidden]

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**Grant Froelich** <[grant.froelich@noaa.gov](mailto:grant.froelich@noaa.gov)>  
To: Olivia Hauser <[olivia.hauser@noaa.gov](mailto:olivia.hauser@noaa.gov)>, Kurt Mueller <[kurt.mueller@noaa.gov](mailto:kurt.mueller@noaa.gov)>

Mon, Sep 10, 2018 at 8:00 AM

A bit more digging shows that this is a defunct program. But looking at the [research labs page](#) . There is a link to the contact information for the PI.

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<p><i>Grant Froelich</i></p> <p>Hydrographic Team Lead NOAA's National Ocean Service Office of Coast Survey, Hydrographic Surveys Division Pacific Hydrographic Branch, N/CS34 <a href="#">7600 Sand Point Way N.E.</a> <a href="#">Seattle, WA 98115-6349</a></p> <p>w: (206)526-4374   <a href="mailto:grant.froelich@noaa.gov">grant.froelich@noaa.gov</a></p>
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**Carrie Bretz** <[cbretz@csumb.edu](mailto:cbretz@csumb.edu)>  
To: Olivia Hauser - NOAA Federal <[olivia.hauser@noaa.gov](mailto:olivia.hauser@noaa.gov)>, Kurt Mueller - NOAA Affiliate <[kurt.mueller@noaa.gov](mailto:kurt.mueller@noaa.gov)>  
Cc: Pat lampietro <[piampietro@csumb.edu](mailto:piampietro@csumb.edu)>

Mon, Sep 10, 2018 at 5:05 PM

Hi Olivia and Kurt,  
Sorry for the delayed response, but I was out of the country until this past weekend. I would like to pass your inquiry to my colleague Pat lampietro -- as Chief Hydrographer on the surveys he is in a better position to explain the technical limitations of the data and why we recommended they not be used for navigational purposes. I have cc'd him here.

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Carrie Bretz - Institute for Applied Marine Ecology & Rote Program Manager  
Building 13 - School of Natural Sciences  
California State University Monterey Bay - 100 Campus Center, Seaside, CA. 93955-8001  
831.582.4197 office - 831.582.3073 fax  
[cbretz@csumb.edu](mailto:cbretz@csumb.edu) - <http://csumb.edu/marinescience> - <http://ifame.csumb.edu>

[Quoted text hidden]

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**Pat lampietro** <[piampietro@csumb.edu](mailto:piampietro@csumb.edu)>  
To: Carrie Bretz <[cbretz@csumb.edu](mailto:cbretz@csumb.edu)>  
Cc: [olivia.hauser@noaa.gov](mailto:olivia.hauser@noaa.gov), [kurt.mueller@noaa.gov](mailto:kurt.mueller@noaa.gov)

Tue, Sep 11, 2018 at 11:14 AM

Hi Olivia and Kurt-

Carrie Bretz forwarded your inquiry to me. Thank you for your interest in SFML data.

The only reason for the disclaimer on the SFML Data Download site stating that our data and products should not be used for navigation is to avoid liability. Our surveys generally exceed IHO Special Order or Order 1 specifications, and while not all are collected and processed in exact accordance with NOAA/NOS protocols, those collected in collaboration with Fugro for the California State Waters Mapping Program, as well as for the 2014-15 San Francisco Bay Shallow Water Mapping Project were, with the express intent that they be used for nautical charting (in fact I believe the FPI data were incorporated into the appropriate "H-sheets" along the CA; not sure about ours). We are firm believers in the practice of "collect once, use many times", and are proud of the data quality we have been able to maintain, including accuracy and precision standards that exceed nautical charting requirements. So the statement "These data are NOT to be used for navigational purposes" is not a reflection of our confidence in the data quality; it is really just to protect us against being sued by somebody that suffers damages and tries to blame it on their use of our data.

That being said, while our mission has always been to map the seafloor comprehensively and accurately for multiple applications, safety of navigation was not the primary or driving use, so our methods may differ from what NOAA/NOS considers best practices. Two examples worth mentioning are that SFML MBES surveys generally do not adhere to strict NOAA/NOS requirements regarding documentation of hazards to navigation encountered during the survey, and data processing does not always involve the level of shoal sounding validation and re-survey that might be desired when the ultimate goal is nautical charting and safety of navigation.

NOAA/NOS is welcome to use any and all SFML data and products they see fit for nautical charting or any other use. Regarding the statement about the use of our data for commercial purposes, that really has no legal teeth in it and is just intended to get folks that do wish to use our data that way to contact us first and ensure proper attribution as described in our Data Use Policy. I assume that is NOAA/NOS does choose to use SFML data or products SFML will be cited as a data source.

Feel free to contact me by email or phone if you'd like to discuss any of this further or have other questions.

Cheers,

-pat

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Pat J. Iampietro  
Marine GTO  
School of Natural Sciences  
California State University, Monterey Bay  
100 Campus Center Seaside, CA 93955  
(831) 582-4214 (831) 582-3073 FAX  
[piampietro@csumb.edu](mailto:piampietro@csumb.edu) <https://csumb.edu/gis>

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**Olivia Hauser - NOAA Federal** <[olivia.hauser@noaa.gov](mailto:olivia.hauser@noaa.gov)>

Tue, Sep 11, 2018 at 12:19 PM

To: Pat Iampietro <[piampietro@csumb.edu](mailto:piampietro@csumb.edu)>, Grant Froelich <[grant.froelich@noaa.gov](mailto:grant.froelich@noaa.gov)>, Corey Allen <[corey.allen@noaa.gov](mailto:corey.allen@noaa.gov)>

Cc: Carrie Bretz <[cbretz@csumb.edu](mailto:cbretz@csumb.edu)>, Kurt Mueller - NOAA Affiliate <[kurt.mueller@noaa.gov](mailto:kurt.mueller@noaa.gov)>

Hi Pat,

Thanks for your helpful response and explanation. We appreciate your support in using your data for charting. I am copying a few additional people that are managing our "external source" data pipeline for their situational awareness and possible follow-up. (Corey and Grant, this is in regards to W00456). We will be completing an independent review of the data to ensure its suitability for charting before application to the chart. We will be sure to credit your organization for the acquisition and processing of these data both in our reports, and on the survey's page at [NCEI](#) (National Center for Environmental Information). Thank you for your hard work, and for making your data publicly available.

V/R, Olivia

[Quoted text hidden]

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**Pat Iampietro** <[piampietro@csumb.edu](mailto:piampietro@csumb.edu)>

Tue, Sep 11, 2018 at 12:47 PM

To: [olivia.hauser@noaa.gov](mailto:olivia.hauser@noaa.gov)

Cc: grant.froelich@noaa.gov, corey.allen@noaa.gov, Carrie Bretz <cbretz@csumb.edu>, kurt.mueller@noaa.gov

Hi Olivia et al-

You're very welcome. For what it's worth, we submitted all of our data to date (including all acquisition and intermediate processing CARIS HIPS HDCS) to NCEI back in 2014 when it was still called NGDC. This included all non-USGS collected data from the [California State Waters Mapping Program](#), as well as extensive legacy data pre-dating the CSMP. The CSMP dataset represents an unprecedented effort, being one of few state-funded programs to complete the mapping of all state waters with high resolution MBES. Housing the data and final products at NGDC/NCEI was a major goal (and requirement) of the project. In 2012 a Submission Agreement and data sharing MOU was drawn up and signed by all parties (Dan Kowal and Dan Price were both involved at this stage), and SFML spent considerable time and effort populating numerous external HDD's with over 10TB of carefully organized raw, intermediate, and processed data for ingestion into the NGDC/NCEI archive. These HDDs were submitted over the following years, with I think the last batch of data uploaded to NCEI servers to address some omissions and errors sometime in early 2014.

I corresponded with (primarily) Evan Robertson over the course of this process, but the last time I heard from him was mid-2015. Then, after Evan left NCEI I had some contact with Aaron Rosenberg as recently as August 2017, and he said they were still working out problems with the ingest process. I have not followed up since then, nor have we submitted any post-2014 data to NCEI, as all our efforts so far have yet to result in any of our data becoming available to the public on their servers. We do have several large projects we'd be happy to add as soon as there is some assurance that submitting them will be worth the effort.

In any event, I am explaining this all to you not to complain but to say that if you want access to all our pre-2015 data including those not available on our website (which only hosts final GIS end-products), in a location to which you already have easy access, look to NCEI. And if you have any sway there, please encourage them to host the data publicly as they originally agreed.

Have a great cruise!

Cheers,  
-pat

[Quoted text hidden]



Kurt Mueller - NOAA Federal <kurt.mueller@noaa.gov>

## W00456 (ESD-PHB-18) registration notification

Kurt Mueller - NOAA Federal <kurt.mueller@noaa.gov>

Fri, Aug 17, 2018 at 3:07 PM

To: Corey Allen <corey.allen@noaa.gov>, Meredith Payne - NOAA Federal <meredith.payne@noaa.gov>

Cc: Olivia Hauser <olivia.hauser@noaa.gov>, Grant Froelich <grant.froelich@noaa.gov>, Peter Holmberg <peter.holmberg@noaa.gov>

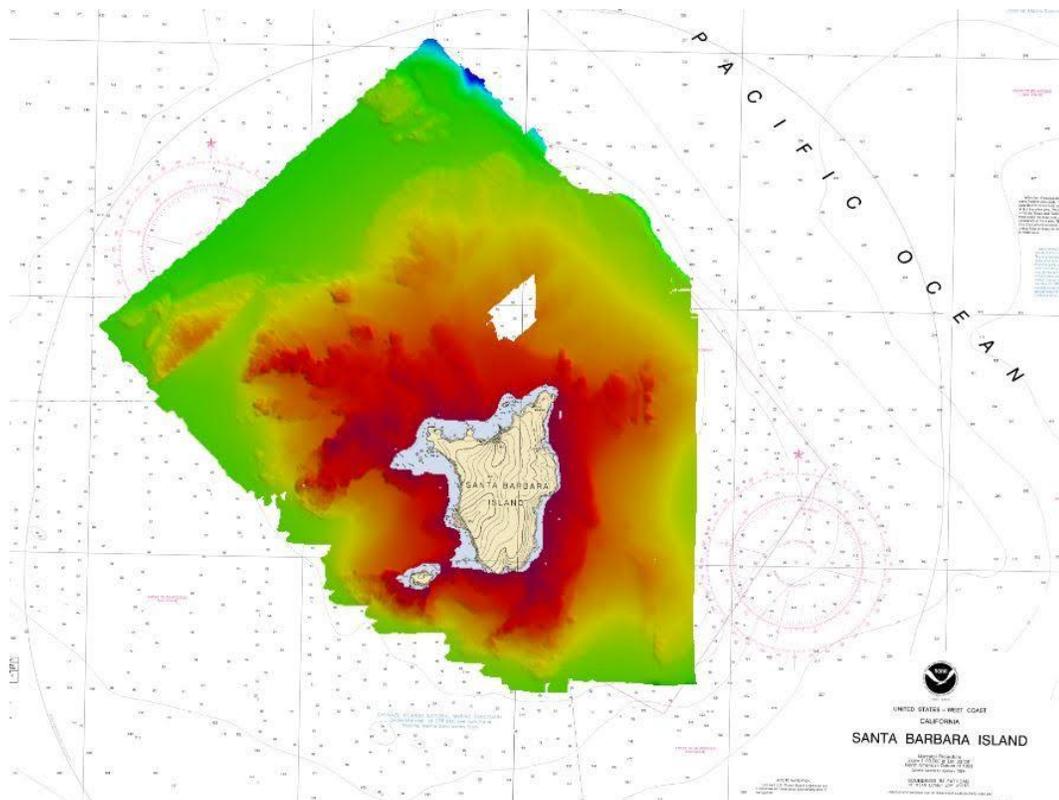
All,

The multibeam survey acquired by California State University Monterey Bay (CSUMBS) in the vicinity of Santa Barbara Island has been registered as W00456.

As you know, this survey junctions with RA's upcoming project in the same area this October. I'm currently reviewing the data and will provide feedback as soon as possible.

V/R,

Kurt



--  
Kurt Mueller  
Physical Scientist  
National Oceanic and Atmospheric Administration  
Pacific Hydrographic Branch  
7600 Sand Point Way NE  
Seattle WA 98115  
206-526-6853

APPROVAL PAGE

W00456

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)
- GeoPDF of survey products

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